AÑO V • NO. 105 • ENERO DE 2024 **Gaceda Juching (UNIVERSIDAD JUÁREZ AUTÓNOMA DE TABASCO CESTUDIO EN LA DUDA. ACCIÓN EN LA FE**"

SUPLEMENTO ESPECIAL

ARTÍCULOS CIENTÍFICOS

2022-01

Secretaría de Investigación, Posgrado y Vinculación Dirección de Investigación Departamento de Fortalecimiento de Grupos de Investigación

Enero 2024

Universidad Juárez Autónoma de Tabasco

Suplemento Especial

Gaceta Juchimán

Fuente de Artículos Científicos: https://jcr.clarivate.com

Universidad Juárez Autónoma de Tabasco

Deviete	
Revista	CURRENT BIOLOGY
Volumen	32
Número	3
ISSN	ISSN 0960-9822 E ISSN 1879-0445
DOI	10.1016/j.cub.2021.11.068
Título del Artículo	Fish waves as emergent collective antipredator behavior
Autores e instituciones de adscripción	Carolina Doran ^[1,9] ; David Bierbach ^[1,2,3] ; Juliane Lukas ^[1,2] ; Pascal Klamser ^[4,5] ; Tim Landgraf ^[3,6] ; Haider Klenz ^[4,5] ; Marie Habedank ^[1,2] ; Lenin Arias-Rodríguez ^[7] ; Stefan Krause ^[8] ; Pawel Romanczuk ^[3,4,5] ; Jens Krause ^[1,2,3]
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	Germany
Resumen	The collective behavior of animals has attracted considerable attention in recent years, with many studies exploring how local interactions between individuals can give rise to global group properties.(1-3) The functional aspects of collective behavior are less well studied, especially in the field,(4) and relatively few studies have investigated the adaptive benefits of collective behavior in situations where prey are attacked by predators.(5,6) This paucity of studies is unsurprising because predator-prey interactions in the field are difficult to observe. Furthermore, the focus in recent studies on predator-prey interactions has been on the collective behavior of the prey (7-10) rather than on the behavior of the predator (but see loannou et al. (11) and Handegard et al. (12)). Here we present a field study that investigated the anti-predator benefits of waves produced by fish at the water surface when diving down collectively in response to attacks of avian predators. Fish engaged in surface waves that were highly conspicuous, repetitive, and rhythmic involving many thousands of individuals for up to 2 min. Experimentally induced fish waves doubled the time birds waited until their next attack, therefore substantially reducing attack frequency. In one avian predator, capture probability, too, decreased with wave number and birds switched perches in response to wave displays more often than in control treatments, suggesting that they directed their attacks elsewhere. Taken together, these results support an anti-predator function of fish waves. The attack delay could be a result of a confusion effect or a consequence of waves acting as a perception advertisement, which requires further exploration.
Palabras claves	Pursuit-Deterrence, Evolution Predation Patterns

Revista	FRONTIERS IN PEDIATRICS
Volumen	10
Número	n/a
ISSN	2296-2360
DOI	10.3389/fped.2022.826295
Título del Artículo	Exclusive Breastfeeding and factors influencing its abandonment during the 1st month postpartum among women from Semi-rural Communities in Southeast México

semi-rural communities in as modifiable or not, are associate was a formative cross-sectional months old, from semi-rural co- on two categories of factors: (1 (2) maternal / infant factors breastfeeding practices. Then, exclusive breastfeeding group (>1 m-EBF), if they practiced We compared the two categor logistic regression models, exp >1 m-EBF. ResultsBy the end of had abandoned EBF, introduc nutritive liquids (7.7%), or had months, EBF practice fell shall regression models showed that group if they lived with the ba delivered vaginally and attende To the contrary, women were infants other liquids during the breasts/nipples, or used a pac higher BMI); and believed that other food when the baby is abandoning EBF, particularly i	Autores e instituciones de adscripción	Inocente Manuel Vázquez-Oso Mendoza ^[1] ; Solange Heller Rou [1] Licenciatura de Nutrición, División Académio Villahermosa, México [2] Jurisdicción Sanitaria 4 del Municipio de Centro [3] Departamento de Nutrición y Bioprogramación [4] Private Practitioner, Naucalpan, Estado de Méxi
accompaniment must be provid	Resumen	IntroductionIn this study we desc semi-rural communities in so modifiable or not, are associated was a formative cross-sectional months old, from semi-rural com on two categories of factors: (1) (2) maternal / infant factors. breastfeeding practices. Then, we exclusive breastfeeding group (- (>1 m-EBF), if they practiced E We compared the two categor logistic regression models, exploit >1 m-EBF. ResultsBy the end of had abandoned EBF, introduce nutritive liquids (7.7%), or had months, EBF practice fell sharp regression models showed that group if they lived with the bab delivered vaginally and attended To the contrary, women were I infants other liquids during their breasts/nipples, or used a paci higher BMI); and believed that y other food when the baby is m abandoning EBF, particularly in can be altered through timely int and ensuring its comprehe accompaniment must be provide postpartum at health facilities ar
Palabras claves Exclusive Breastfeeding (EBF)		Exclusive Breastfeeding (EBF),

Revista	REVISTA MEXICANA DE INGE
Volumen	21
Número	1
ISSN	1665-2738
DOI	10.24275/rmiq/IA2660
Título del Artículo	Estimation of hydrocarbon see characteristics of humic substan
Autores e instituciones de adscripción	Velázquez-Vázquez, VW ^[1] ; Gón I ^[1] ; Volke-Sepulveda, T ^[1]
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orio [1,2]; Rodrigo Vega-Sánchez [3]; Eric Maasouassant ^[3,4]; María Eugenia Flores-Quijano ^[3]

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tro Secretaría de Salud Villahermosa México n, Instituto Nacional de Perinatología, México City, México éxico, México, México

scribe breastfeeding practices among women from outheast México, and explore which factors, ed with such practices. Materials and MethodsThis I study that included 143 mothers with infants 4-6 mmunities in Tabasco, México. We collected data) women's sociodemographic characteristics, and

We first analyzed the frequency of various we classified participants into the up to 1 month of (<= 1 m-EBF) and the beyond 1-month EBF group EBF for less or more than 1 month, respectively. ries of factors between groups and then, using ored which factors were associated with practicing of the 1st month postpartum, 51.7% of participants ed milk formula (35%), other food (9.1%), non-I stopped breastfeeding completely. In the next ply and mixed feeding grew importantly. Logistic t women were more likely to be in the >1 m-EBF by's father, had complications during pregnancy, ed a health center at least three times postpartum. less likely to be practice >1 m-EBF if they gave ir hospital stay; experienced pain or discomfort in cifier after hospitalization; had larger bodies (i.e., you should give the infant powdered milk or some not full. ConclusionMany factors associated with n the early postpartum period, are modifiable and nterventions that include giving correct information ension; assertive personal counseling and led to mothers; and reinforcement during the early and other settings.

Breastfeeding Beliefs, Food Insecurity.

ENIERÍA QUÍMICA

questration in soils: Influence of the chemical nces

mez, SA^[2]; Gutiérrez -Rojas, M^[1]; Díaz-Ramírez,

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claves

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Fuente de Artículos Científicos: https://jcr.clarivate.com

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Revista	FRONTIERS IN ECOLOGY AND THE ENVIRONMENT	
Volumen	20	
Número	6	
ISSN	ISSN 1540-9295 e ISSN 1540-9309	
DOI	10.1002/fee.2485	
Título del Artículo	Conservation of birds in fragmented landscapes requires protected areas	
Autores e instituciones de adscripción	Timmers, Robert ^[1] ; van Kuijk, Marijke ^[1, 2] ; Verweij, Pita A. ^[3] ; Ghazoul, Jaboury ^[2,4] ; Hautier, Yann ^[1] ; Laurance, William F. ^[5] ; Arriaga-Weiss, Stefan L. ^[6] ; Askins, Robert A. ^[7] ; Battisti, Corrado ^[8] ; Berg, Ake ^[9] ; Daily, Gretchen C. ^[10] ; Estades, Cristian F. ^[11] ; Frank, Beatrice ^[12] ; Kurosawa, Reiko ^[13] ; Pojar, Rosamund A. ^[14] ; Woinarski, John C. Z ^[14] ; Soons, Merel B. ^[1,15] ;	
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	[2] Univ Utrecht, Prince Bernhard Chair Int Nat Conservat, Utrecht, Netherlands	
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	[15] Netherlands Inst Ecol, Dept Anim Ecol, Wageningen, Netherlands	
Resumen	For successful conservation of biodiversity, it is vital to know whether protected areas in increasingly fragmented landscapes effectively safeguard species. However, how large habitat fragments must be, and what level of protection is required to sustain species, remains poorly known. We compiled a global dataset on almost 2000 bird species in 741 forest fragments varying in size and protection status, and show that protection is associated with higher bird occurrence, especially for threatened species. Protection becomes increasingly effective with	

Resumen	increasing size of forest fragment that strict protection (Internation categories I-IV) is strongly as fragments had to be at least 17 and VI) to have a positive effect fragment size, protection status species communities, and stress pristine areas.
Palabras claves	Species Responses, Extinction,

	Revista	ANIMALS (BASEL)
	Volumen	12
-	Número	4
	ISSN	2076-2615
	DOI	10.3390/ani12040511
	Título del	Antibacterial Potential of Cae
	Artículo	Aeromonas spp. of Aquaculture I
	Autores e instituciones de adscripción	Lenín Rángel-López ^[1,2] ; Nallely F ^[3] ; Agustín Olmedo-Juárez ^[4] ; Luc Sawako Hori-Oshima ^[6] ; Mohame Zaragoza-Bastida ^[1]
		 Instituto de Ciencias Agropecuarias, Área Acad Estado de Hidalgo, Rancho Universitario Av. Av. Av. Av. Av. Av. Av. Av. Av. Av.
	Resumen	Simple Summary Aquaculture re aquaculture systems are affected resistant or multiresistant bacteria for new treatments for these bac study was to determine the ant hydroalcoholic extract and gallic <i>veronii</i> , and Aeromonas dhakens diseases caused by Aeromona s coriaria and its fractions have anti <i>Aeromonas veronii</i> , and Aeromor treatment of diseases caused b important source of food and livel the world, however, aquaculture s them the appearance of resistant secondary metabolites of plants treatment of these bacteria. The antibacterial activity of Caesalpin

ents. For forest fragments >50 ha our results show ional Union for Conservation of Nature [IUCN] ssociated with higher bird occurrence, whereas 75 ha for moderate protection (IUCN categories V ct. This meta-analysis quantifies the importance of s, and their interaction for the conservation of bird sses that protection should not be limited to large

, Dispersal

esalpinia coriaria (Jacq) Willd Fruit against Importance

Rivero-Pérez^[2]; Benjamín Valladares-Carranza icía Delgadillo-Ruiz^[5]; Vicente Vega-Sánchez^[1]; ed A Nassan^[7]; Gaber El-Saber Batiha^[8]; Adrián

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remains an important source of food, however, ed by different factors including the appearance of ria to antimicrobials. An alternative in the search acteria is plant extracts. The aim of the present ntibacterial activity of Caesalpinia coriaria fruit acid over Aeromonas hydrophila, Aeromonas sis to identify new molecules for the treatment of spp. The hydroalcoholic extract of Caesalpinia tibacterial activity against Aeromonas hydrophila, onas dhakensis and could be alternatives for the by the genus Aeromonas. Aquaculture is an elihood for hundreds of millions of people around systems are affected by different factors, among t or multiresistant bacteria to antimicrobials. The ts have been proposed as alternatives for the aim of the present study was to determine the antibacterial activity of Caesalpinia coriaria fruit hydroalcoholic extract and gallic

Enero 2024

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Aeromonas dhakensis	Revista	SOIL USE AND MANAGEMENT
aused by Aeromonas	Volume	
Cc) was obtained by	Número	
vith ethyl acetate and	ISSN	ISSN: 0266-0032 E ISSN: 1475-2743
organic fraction (Ac-	DOI	10.1111/sum.12799
e Minimum Inhibitory on (MBC), MBC/MIC	Título d Artículo	
were determined. The c) and gallic acid have is, but only gallic acid	Autores instituci de adso	
and Ac-FrCc showed acid showed medium atives for the treatment r, in vivo assays are		 [1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Bid [2] Colegio Frontera Sur, Grp Agroecol, Carr Reforma Km [3] Ctr Cambio Global & Sustentabilidad AC Ctr, Villaherm [4] Univ Calif Berkeley, Lawrence Berkeley Natl Lab, Clima [5] CONACYT Ctr Cambio Global & Sustentabilidad AC Ctr [6] Tecnol Nacl México IT Zona Maya, Othon P Blanco, Qu [7] CONACYT UNACH, Fac Ciencias Agron, Villaflores, C
	Resum	Silvopastoral systems have great pot assimilation in tree woody biomass, ground carbon turnover. In this study stocks at livestock ranches in Tabasc in grazing pastures (STP) or grass m established at each ranch where the carbon input from litterfall, grass pro
free-falling quantum 690, Cunduacán, Tabasco, México dad de México, México		measured. We found that silvopastor ha (-1) of soil organic carbon (SOC) c monoculture ranches (to 30 cm dept Mg C ha (-1) in wood biomass; and, grass biomass production. Overall, Tabasco, México, with scattered tre carbon than those grass monoculture
antum level using the we consider a quasi- ich is removed at time		 and 134.47 Mg C ha (-1), resp management decision making for su Sustainable Development Goals (SD
ensity exhibits a set of um in nature, thereby	Palabra claves	Carbon Storage, Grass Production, L
principle, although the e degree of violation in notivated by the recent		
utrons as well as the	Revista	ANIMAL FEED SCIENCE AND TEC
cold neutrons in the	Volume	
n in time of a suddenly	Número	
ional quantum bound	ISSN	ISSN: 0377-8401 E ISSN: 1873-2216
comparing the time of	DOI	10.1016/j.anifeedsci.2022.115284
sus the time of flight as	Título d	del Selection and improvement of alter

Artículo

Autores e

instituciones de adscripción

Resumen	acid over <i>Aeromonas hydrophila, Aeromonas veronii</i> , and <i>Aeromonas</i> dhakensis to identify new molecules for the treatment of diseases caused by <i>Aeromonas</i> spp. The C. coriaria fruit hydroalcoholic extract (HECc) was obtained by hydroalcoholic maceration and subjected to bipartition with ethyl acetate and water to obtain an aqueous fraction (Ac-FrCc) and an organic fraction (Ac-FrEtCc); gallic acid was purchased commercially. The Minimum Inhibitory Concentration (MIC), Minimum Bactericidal Concentration (MBC), MBC/MIC ratio, and cytotoxicity of HECc, its fractions, and gallic acid were determined. The results indicate that HECc fractions (Ac-FrCc and Ac-FrEtCc) and gallic acid have bactericidal activity against A. hydrophila and A. dhakensis, but only gallic acid showed bactericidal activity against A. veronii. The HECc and Ac-FrCc showed no toxicity, Ac-FrEtCc showed low toxicity, and gallic acid showed medium toxicity. The HECc, Ac-FrCc, and Ac-FrEtCc may be alternatives for the treatment of diseases caused by the genus Aeromonas, however, in vivo assays are necessary to corroborate these results.
Palabras claves	A. dhakensis; A. veronii; Aeromonas hydrophila

Revista	EUROPEAN PHYSICAL JOURNAL PLUS
Volumen	137
Número	816
ISSN	2190-5444
DOI	10.1140/epjp/s13360-022-03051-5
Título del Artículo	Testing the equivalence principle with time-diffracted free-falling quantum particles
Autores e instituciones de adscripción	Juan A. Cañas ^[1] ; J. Bernal ^[1] ; A. Martín-Ruiz ^[2] [1] División Académica de Ciencias Básicas, Universidad Juárez Autónoma de Tabasco, 86690, Cunduacán, Tabasco, México [2] Instituto de Ciencias Nucleares, Universidad Nacional Autónoma de México, 04510, Ciudad de México, México
Resumen	The equivalence principle of gravity is examined at the quantum level using the diffraction in time of matter waves in two ways. First, we consider a quasi- monochromatic beam of particles incident on a shutter which is removed at time t = 0 and fall due to the gravitational field. The probability density exhibits a set of mass-dependent oscillations which are genuinely quantum in nature, thereby reflecting quantum violations to the weak equivalence principle, although the strong equivalence principle remains valid. We estimate the degree of violation in terms of the width of the diffraction-in-time effect. Second, motivated by the recent advances in the manipulation of ultracold atoms and neutrons as well as the experimental observation of quantum states of ultracold neutrons in the gravitational field above a flat mirror, we study the diffraction in time of a suddenly released beam of particles initially prepared in gravitational quantum bound states. In this case, we quantify the degree of violation by comparing the time of flight from the mean position of the initial wave packet versus the time of flight as measured from the mirror. We show that, in this case both the weak and strong versions of the equivalence principle are violated. We demonstrate that compatibility between equivalence principle and quantum mechanics is recovered in the macroscopic (large-mass) limit. Possible realizations with ultracold neutrons, cesium atoms and large molecules are discussed.
Palabras claves	Arrival-Time, Distributions, Mechanics

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NT
e carbon stocks at livestock ranches in Tabasco,
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dad AC Ct, Villahermosa, Tabasco, México
Blanco, Quintana Roo, México
aflores, Chiapas, México
eat potential for storing carbon because of carbon
mass, carbon input through litterfall and below-
s study, we quantified and compared the carbon
Tabasco, México, containing either scattered trees

monocultures. Sampling plots were randomly he above- and below-ground carbon stocks, roduction and arboreal biomass growth were oral systems stored an average of 257.45 Mg compared to 119.17 Mg SOC ha (-1) at grass pth); silvopastoral systems also stored 44.64 , grass monocultures had greater cumulative II, it is concluded that livestock ranches in rees in grazing pastures stored 58.8% more Ires, with carbon stocks of 327.01 Mg C ha (spectively. The results are useful for land sustainable livestock systems framed in the DGs).

Litterfall

CHNOLOGY

Selection and improvement of alternative raw materials for rainbow trout (*Oncorhynchus mykiss*) aquafeeds through a multiparametric screening tool

Toledo-Solis, FJ^[1,2]; Hilerio-Ruiz, AG^[3]; Martínez, FP^[1]; Barrios, A^[4]; Aznar, MJ ^[1]; Larran, AM ^[5]; Fernández, I ^[5]; Moyano, FJ ^[1]

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Enero 2024

Universidad Juárez Autónoma de Tabasco

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Fuente de Artículos Científicos: https://jcr.clarivate.com

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Resumen	Aquaculture growth and sustainability mainly rely on the identification and		
	implementation of alternative raw materials to replace fish meal (FM) and fish oil	Revista	HELMINTHOLOG
	(FO) and/or its major substitute, the soybean meal_(SBM). A five-step screening	Volumen	59
	tool has been designed to identify and improve the use of promising alternative	Número	1
	raw materials. To validate it, nine raw materials, including the standard reference (the SBM), were sequentially analyzed regarding (i) the total buffer capacity,	ISSN	ISSN: 0440-6605 E ISSN: 1336-9083
	alkaline protease activity inhibition and soluble protein content, (ii) soluble	DOI	10.2478/helm-2022
	phosphorus and phenolic compound_content, (iii) modification of nutrients bioavailability and presence of anti-nutritional factors after treatment with	Título del Artículo	Parasite commun (<i>Perciformes,Lutja</i>
	exogenous enzyme (Rovabio® Phy), (iv) release of nutrients after <i>in vitro</i> digestion, and (v) the palatability of the formulated diet. SBM partial replacement	Autores e instituciones	Rodríguez-Santiag Maldonado, MI ^[4] ;
	by selected raw material, the Narbonne vetch_(<i>Vicia narbonensis</i>) meal (NVM),	de adscripción	[1] Consejo Nacl Ciencia Tec
	was evaluated in a 63-day nutritional trial using rainbow trout (Oncorhynchus		[2] Univ Autónoma Carmen, F
	mykiss) juveniles. One Control (no SBM replacement) and 4 experimental diets		[3] Univ Juárez Autónoma Ta
	with SBM replacement in two levels (33% and 66%), treated or not with		[4] Univ Autónoma Sinaloa, F
	exogenous enzyme Rovabio® Phy, were compared. Fish growth performance		[5] Univ Nacl Federico Villarr
	and amino acid profile in fish fillet_was not significantly affected when SBM was		Grp Invest & Sosten, Lima, P [6] Univ Cient UCSUR, Fac 0
	replaced by 33% of NVM treated with exogenous enzyme. Altogether, the present		[7] Ctr Invest Cient Yucatán A
	screening tool might be a wise strategy to identify promising alternative raw		
	materials for European aquaculture sustainability, reducing the use of animals in	Resumen	The gray snapper l
	experimentation, the SBM dependency from third countries, and its carbon	Resulten	its distribution rai
	footprint.		importance, there
			coasts of the Gulf
Palabras	European crops, Narbonne vetch, Soybean meal		
claves			the parasitic fauna
			lagoon located in
			parasites and to de

Revista	ACTA BIOLÓGICA COLOMBIANA
Volumen	27
Número	1
ISSN	1900-1649
DOI	10.15446/abc.v27n1.88615
Título del Artículo	Saurochory in crocodiles does not favor seed dispersal and viability
Autores e instituciones de adscripción	González-Solorzano, M ^[1,2] ; Gómez-Torres, MA ^[1] ; López-Luna, MA ^[1,2] ; Escobedo-Galván, AH ^[3] [1] Univ Veracruzana, Inst Neuroetol, Ave Dr Luis Castelazo, Xalapa 91190, Veracruz, México [2] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Biol, Carr Villahermosa Cardenas Km 0-5, Villahermosa 86039, Tabasco, México [3] Univ Guadalajara, Ctr Univ Costa, Ave Univ 203, Puerto Vallarta 48280, Jalisco, México
Resumen	Seed dispersal by reptiles (saurochory) has recently received attention, and the consumption of fruits and seeds has been reported in crocodilians despite being mainly carnivores, acting as potential seed dispersers. We evaluate whether saurochory by <i>Crocodylus acutus</i> and <i>C. moreletii</i> affect the seed viability of three species of plants (<i>Delonix regia</i> , <i>Inga</i> sp., and <i>Citrullus lanatus</i>). We performed feeding trials, using three juvenile individuals of each species of crocodile, and fed them 22 seeds per plant species for a total of 66 seeds per enclosure (132 for both species). Seeds were combined with the usual diet each week. The unconsumed and excreted seeds were collected and planted in soil treated with compost to evaluate the relative germination rate. A total of 99 seeds were consumed, of which only 14 seeds of <i>C. lanatus</i> were recovered from the faeces, and only one of those germinated (7.14 %) with respect to 50 % in the control group. The results indicate that saurochory by <i>C. acutus</i> and <i>C. moreletii</i> has a negative effect on seed viability and germination of the plant species studied, as found in other studies using different species.
Palabras claves	Crocodylia, endozoochory, frugivory

Revista	HELMINTHOLOGIA
Volumen	59
Número ISSN	1 ISSN: 0440-6605
10011	E ISSN: 1336-9083
DOI	10.2478/helm-2022-0003
Título del Artículo	Parasite community analysis (<i>Perciformes,Lutjanidae</i>) in a tro
Autores e instituciones de adscripción	Rodríguez-Santiago, MA ^[1,2] ; Ra Maldonado, MI ^[4] ; Iannacone, J ^[1] Consejo Nacl Ciencia Tecnol CONACYT, Ciud ^[2] Univ Autónoma Carmen, Fac Ciencias Nat, Ctr ^[3] Univ Juárez Autónoma Tabasco, Div Acad Cier ^[4] Univ Autónoma Sinaloa, Fac Ciencias Mar, Ma ^[5] Univ Nacl Federico Villarreal UNFV, Escuela U Grp Invest & Sosten, Lima, Perú ^[6] Univ Cient UCSUR, Fac Ciencias Ambient, Lim ^[7] Ctr Invest Cient Yucatán AC CICY, Mérida, Yuc
Resumen	The gray snapper Lutjanus grise its distribution range in the v importance, there is still little know coasts of the Gulf of México. The the parasitic fauna present in j lagoon located in southeaster parasites and to determine the r and the fi sh size and condition for obtained in two periods of the yeannual variability of its parasite recorded belonging to six taxof Cestoda, Nematoda and Acar (abundance, prevalence and monogeneans Euryhaliotrema were no significant correlations b fi sh condition and size (total suggesting that the body size a not directly infl uence the abunda Moreover, the species of parasit through the consumption of raw Contracaecum sp. type 1, Con Pseudoterranova sp. The press fastigatum was also highlighted to cause harm to fi sh under culto study, except nema-todes, were
Palabras claves	Intestinal helminths, Nematoda,

Revista	CANADIAN JOURNAL OF PHY
Volumen	100
Número	4
ISSN	ISSN: 0008-4212
	E ISSN: 1205-7541
DOI	10.1139/cjpp-2021-0526
Título del Artículo	PPARα/γ, adiponectin, and GL methyl ester influenced glucose mice

is of the gray snapper Lutjanus griseus opical region of the Southern Gulf of México

amos-Colorado, L^[3]; García-Magaña, L^[3]; Grano-^[5,6]; Vázquez-Caballero, A ^[7]

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Univ Postgrad, Fac Ciencias Nat & Matemat, Lab Ecol & Biodiversidad Anim,

ma, Perú ucatán, México

eus is a commercially important fish species along western Atlantic Ocean. However, despite its nowledge about its parasitic fauna for the Mexican he aims of this research were to generate a list of juvenile gray snapper L. griseus from a coastal ern México, to evaluate the infection levels of relationship between the abundance of parasites factor. Samples of L. griseus (12 - 29.2 mm) were year (dry and rainy seasons) to examine the intraitic fauna. A total of 17 parasite species were onomic groups (Myxozoa, Monogenea, Digenea, an-thocephala). The highest levels of infection intensity of infection) were found for the griseus and Euryhaliotrema fastigatum. There between the total abundance of parasites and the length) in not any of the two seasons studied, and the biological condition index of the host did dance of parasites in early life stages of L. griseus. asites found that could be zoonotic for humans or inadequately cooked fi sh were the nematodes on-tracaecum sp. type 2, Cucullanus pargi and sence of the monogeneans E. griseus and E. d because these ectoparasite species are known ture systems. All the parasite species found in this e new records of geographic distribution

Yucatan

YSIOL	SIOLOGY AND PHARMACOLOGY					
UT4	overexpression	induced	bv	moronic	acid	

e and triglyceride levels of experimental diabetic

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Fuente de Artículos Científicos: https://jcr.clarivate.com

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Autores e instituciones de adscripción	Estrada-Soto, S ^[1] ; Ceron-Romero, L ^[2] ; Navarrete-Vázquez, G ^[1] ; Rosales- Ortega, E ^[1] ; Gómez-Zamudio, J ^[3] ; Cruz, M ^[3] ; Villalobos-Molina, R ^[4] [1] Univ Autónoma Estado Morelos, Fac Farm, Cuernavaca, Morelos, México [2] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Básicas, Cunduacán, Tabasco, México [3] Hosp Especialidades Ctr Med La Raza, IMSS, CMNSXXI, México City, DF, México [4] Univ Nacl Autónoma México, FES Iztacala, Unidad Biomed, Estado De México, México	Autores e instituciones de adscripción	[11] Inst Nacl [12] Tecnol Md [13] Inst Nacl [14] Dept Phys [15] Secretaria [16] Inst Nacl [17] Natl Inst I DF, México
Resumen	The current study aimed to determine the antidiabetic and antidyslipidemic activities of moronic acid methyl ester (1) (compound 1) by in vivo, in vitro, in silico, and molecular biology studies. Compound 1 was evaluated to establish its dose-dependent antidiabetic and antihyperglycemic (50 mg/kg) activities, in diabetic and normoglycemic male CD1 mice, respectively. Also, compound 1 was subjected to a subacute study (50 mg/kg per day for 8 days) to determine blood biochemical profiles and the expression of protein tyrosine phosphatase 1B (<i>PTP-1B</i>), glucose transporter type 4 (<i>GLUT4</i>), peroxisome proliferator-activated receptor α (<i>PPAR-a</i>), <i>PPAR-y</i> , adiponectin, interleukin-1 β (IL-1 β), and monocyte chemoattractant protein 1 (MCP-1) in adipose tissue of animals after treatment. Different doses in acute administration of compound 1 decreased glycemia ($p < 0.05$) compared with vehicle, showing greater effectiveness in the range 50–160 mg/kg. Also, the oral glucose tolerance test showed that compound 1 induced a significant antihyperglycemic action by opposing the hyperglycemic peak ($p < 0.05$). Moreover, compound 1 subacute administration decreased glucose and triglyceride levels after treatment ($p < 0.05$); while the expression of PPAR- α and PPAR- γ , adiponectin, and GLUT4 displayed an increase ($p < 0.05$) compared with the diabetic control group. In conclusion, compound 1 showed antihyperglycemic, antidiabetic, and antidyslipidemic effects in normal and diabetic mice, probably due to insulin sensitization through increased mRNA expression of <i>GLUT4</i> , <i>PPAR-α</i> , <i>PPAR-γ</i> , and adiponectin greus.	Resumen	Central r form an mechanis However access i <i>tuberculo</i> mouse n morphos analyzed parenchy with two junctiona showed t no disrup strain use distinct s indirect mechanis biomarke
Palabras claves	In-Vitro, Insulin-Resistance, Oleanolic Acid		

Revista	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES
Volumen	23
Número	6436
ISSN	E ISSN: 1422-0067
DOI	10.3390/ijms23126436
Título del Artículo	<i>Mycobacterium tuberculosis</i> Infection Induces BCSFB Disruption but No BBB Disruption In Vivo: Implications in the Pathophysiology of Tuberculous Meningitis
Autores e instituciones de adscripción	Sánchez-Garibay, C ^[1,2] ; Salinas-Lara, C ^[1,2,3,17] ; Gómez-López, MA ^[4] ; Soto- Rojas, LO ^[2,3] ; Castillon-Benavides, NK ^[5] ; Castillon-Benavides, OJ ^[6] ; Hernández-Campos, ME ^[5] ; Hernández-Pando, R ^[8] ; Marquina-Castillo, B ^[9] ; Flores-Barrada, MA ^[10] ; Choreno-Parra, JA ^[2,11,12] ; León-Contreras, JC ^[13] ; Tena- Suck, ML ^[1] ; Mata-Espinosa, DA ^[8] ; Nava, P ^[14] ; Medina-Mendoza, J ^[2,15] ; Rodríguez-Balderas, CA ^[16]
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	[8] Natl Inst Med Sci & Nutr Salvador Zubiran, Dept Pathol, Expt Pathol Sect, México City 14080, DF, México
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Revista	ENERGY EXPLORATION & EXPLOITATION
Volumen	40
Número	6
SSN	ISSN: 0144-5987 E ISSN: 2048-4054
DOI	10.1177/01445987211073175
Título del Artículo	Multivariate inverse artificial neural network to transfer of ammonia in a Plate Heat Exchanger solar cooling applications
Autores e nstituciones de adscripción	Tzuc, OM ^[1] ; Chan-González, JJ ^[1] ; Castañeda- ^[1] ; Moheno-Barrueta, M ^[3] ; Torres, MJ ^[4] ; Best, ^[1] Univ Autónoma Campeche, Fac. Ingn, Campus V, Av Humberto Lar México ^[2] Univ Autónoma Estado Hidalgo, Mineral De La Reforma, México ^[3] Univ Juárez Autónoma Tabasco, Villahermosa, Tabasco, México ^[4] Univ Autónoma Yucatán, Fac Ingn, Mérida, México ^[5] Univ Nacl Autónoma México, Inst Energias Renovables, Temixco, Méx
Resumen	This work presents a numerical approach to con that maximize the absorption flux into a heat ex refrigeration systems. Experimental data were operates in bubble absorption mode with an ir Heat Exchanger-type (PHE-type) and interact refrigerant, and cooling water. An artificial neu correlate the thermal properties of the solution easily measurable parameters (concentrations

11] Inst Nacl Enfermedades Resp Ismael Cosio Villegas, Lab Inmunobiol & Genet, México City 14080, DF, México 12] Tecnol Monterrey, Escuela Med & Ciencias Salud, México City 14380, DF, México 13] Inst Nacl Ciencias Med & Nutr Salvador Zubiran, Dept Patol, Lab Microscopia Elect, México City 14080, DF, México 14] Dept Physiol Biophys & Neurosci, México City 07360, DF, México 15] Secretaría Salud México, Hosp Juárez México, Serv Pediat, México, City 07760, DF, México,

16] Inst Nacl Neurol & Neurocirugia Manuel Velasco Su, Dept Bioterio, México City 14269, DF, México

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Central nervous system (CNS) tuberculosis is the most lethal and devastating orm among the diseases caused by Mycobacterium tuberculosis. The nechanisms by which *M. tuberculosis* bacilli enter the CNS are still unclear. However, the BBB and the BCSFB have been proposed as possible routes of access into the brain. We previously reported that certain strains of M. uberculosis possess an enhanced ability to cause secondary CNS infection in a nouse model of progressive pulmonary tuberculosis. Here, we evaluated the norphostructural and molecular integrity of CNS barriers. For this purpose, we analyzed through transmission electron microscopy the ultrastructure of brain parenchymal microvessels and choroid plexus epithelium from animals infected vith two mycobacterial strains. Additionally, we determined the expression of unctional proteins and cytokines by immunological techniques. The results showed that the presence of *M. tuberculosis* induced disruption of the BCSFB but no disruption of the BBB, and that the severity of such damage was related to the strain used, suggesting that variations in the ability to cause CNS disease among listinct strains of bacteria may also be linked to their capacity to cause direct or ndirect disruption of these barriers. Understanding the pathophysiological nechanisms involved in CNS tuberculosis may facilitate the establishment of new piomarkers and therapeutic targets.

Blood-Brain Barrier; Blood-Cerebrospinal Fluid Barrier; Central Nervous System

eural network to analyze and improve the mass leat Exchanger-Type absorber with NH3/H2O for

I^[1]; Castañeda-Robles, IE^[2]; Lezama-Zarraga, F es, MJ^[4]; Best, R^[5]

us V, Av Humberto Lanz, San Francisco de Campech 24085, Campeche,

Reforma, México , Tabasco, México vico novables, Temixco, México

approach to compute optimal operating conditions ix into a heat exchanger designed for absorption ental data were obtained from a test circuit that mode with an inner vapor distributor into a Plate e) and interacts with ammonia vapor, NH₃-H₂O An artificial neural network (ANN) was trained to of the solution and absorption flux in function of (concentrations, mass flows, and pressures of

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saturated and diluted solutions, flow and temperature of the ammonium vapor, environment temperature, and solution temperature). According to results, ANN is adequate to correlate the operational parameters and the transport phenomena inside the heat exchanger with a precision > 99%. ANN also quantitatively identified the ammonium vapor flow (43.1%), dilute solution flow (18.1%), and dilute solution concentration (13.1%) as the variables most importantly in influencing absorption flux optimization. Subsequently, a multivariable inverse artificial neural network was applied to improve the mass transfer into the PHE- type.It was identified that simultaneous optimization of the ammonia and dilute concentration flow rates improves the absorption flow performance by up to 96.3% under a worst-case scenario (ammonia flow rate<1.4 kg/min) and even 7.04% when even when operating near the amino vapor flow limit (ammonia flow rate>2.0 kg/min). Finally, it was confirmed that incorporating the diluted solution concentration into the optimization contributes to improving the performance of the absorption process 1%. Results obtained are relevant in the search to produce more competitive absorption cooling systems, demonstrating the feasibility of improving the performance of heat exchangers without structural modifications. The proposed methodology represents an interesting option to be implemented to improve performance in solar cooling systems.
Artificial intelligence, Metaheuristic Optimization, Absorption Refrigeration

Revista	NUTRIENTS
Volumen	14
Número	10
ISSN	E-ISSN: 2072-6643
DOI	10.3390/nu14102017
Título del	Infant Feeding Practices that substitute exclusive Breastfeeding in a Semi-Rural
Artículo	Mexican Community: Types, Moments, and Associated Factors
Autores e instituciones de adscripción	Maas-Mendoza, E ^[1] ; Vega-Sánchez, R ^[2] ; Vázquez-Osorio, IM ^[1,3] ; Heller- Rouassant, S ^[4] ; Flores-Quijano, ME ^[2] [1] Univ Juárez Autónoma Tabasco, Div Academ Ciencias Salud, Nutr, Villahermosa 86040, Tabasco, México [2] Inst Nacl Perinatol Isidro Espinosa Reyes, Dept Nutr & Bioprogramac, Miguel Hidalgo 11000, México [3] Secretaría Salud, Jurisdicc Sanitaria 4 Municipio Ctr, Villahermosa 86190, Tabasco, México [4] Acad Mexicana Pediat, Ciudad De México 03810, México
Resumen	International organizations recommend mothers practice exclusive breastfeeding (EBF) during the first six months of their infant's life and introduce complementary feeding (CF) thereafter while continuing breastfeeding. However, the earlier introduction of liquids and foods is common worldwide and may have negative effects on breastfeeding practice, nutrition, and health. In this formative cross-sectional study, we interviewed 143 mothers from semi-rural communities in Tabasco, México, whose infants were 4-6 months old. We explored (1) which feeding practices substituted EBF and (2) which factors were associated with each practice. During the first month of life, 42.7% of infants received formula milk (FM); this proportion increased to 74.5% by the sixth month. Adjusted Poisson regression analyses showed that giving FM was positively related to working away from home (PR 1.27; 95% CI 1.06, 1.54) and the perception that FM is an important food to accompany breast milk (PR 1.38; 95% CI 1.19, 1.70). Giving FM was negatively associated with not being sure the infant is full after breastfeeding (PR 0.75; 95% CI 0.61, 0.92). Regarding CF, less than half (47.5%) of infants had not received it by the fifth month. Factors positively associated with timely CF introduction were: the mother was told during prenatal care visits the optimal age to start CF is 6 months (PR 1.17, 95% CI 1.06, 1.29); she is convinced that giving only breast milk is best for her baby (PR 1.15, 95% CI 1.03, 1.29), and

Resumen	a higher infant weight-for-length (PR 1.04, 95% CI 1.00, 1.09) negatively associated to the idea formula milk or some other for communities, EBF is lost to the with these inadequate feeding information received during pren This work will guide the design of these communities and other sin
Palabras claves	National-Healt, Hmilk, Toddlers
Revista	AVIAN RESEARCH
Volumen	13
Número	n/a 2053-7166
ISSN	
DOI	10.1016/j.avrs.2022.100019
Título del Artículo	Abundance of White-fronted Pa (Aves: Psittaciformes) in a green
Autores e instituciones de adscripción	Álvarez-Castillo, C ^[1] ; MacGrego C ^[4] ; Santiago-Alarcon, D ^[1,5] [1] AC CONACYT, Inst Ecol, Biol & Conservac Ver [2] Univ Helsinki, Biol & Environm Sci, Lahti, Finlan [3] Univ Juárez Autónoma Tabasco, Div Acad Cien [4] AC CONACYT, Biol Evolut, Inst Ecol, Xalapa, V [5] Univ S Florida, Dept Integrat Biol, Tampa, FL 33
Resumen	Urban ecosystems are evolut biodiversity filters. Psittacidae b mainly due to their generalist fee to occupy environments from co- important to understand how the studied the interannual (2013- (<i>Amazon albifrons</i>) in the Neotro Veracruz, México. Additionally, v of 6 parrot species detected in to fronted Parrot was significantly homogeneous across years. Psittacidae diets in Xalapa, whe resource. We recorded the higher overlap among species by the fronted Parrot had the highest Parakeet (<i>Myiopsitta monach holochlorus</i>); yet, the White-fron- two plant species (<i>Grevillea rob</i> the three above-mentioned parro model, where the White-fronted I the months of February, April, Ju an urban adapter that has success means and by human activitie restricted to one park in Xalapa, (i.e., pre-expansion phase). Exc 55% of the woody vegetation, s periods that may have aided th urban environments.
Palabras	Monk Parakeet, Myiopsitta-Mona

claves

h (PR 1.04, 95% CI 1.00, 1.08) and length for age) z-scores at the study visit; conversely, it was a that if the infant is not full, she/he should receive food (PR 0.87, 95% CI 0.78, 0.96). In these e use of FM and early CF. The factors associated ng practices are related to returning to work, natal visits, and the mother's beliefs and thoughts. In of an intervention on infant feeding practices for imilar ones.

arrots and diet of an urban parrot assemblage n Neotropical city

jor-Fors, I^[2]; Arriaga-Weiss, SL^[1,3]; Mota-Vargas,

ertebrados, Xalapa, Veracruz, México ind encias Biol, Villahermosa, Tabasco, México Veracruz, México

33620 USA

ationarily recent novel environments acing as birds are considered successful urban adapters eeding and opportunistic behavior, allowing them cold temperate to dry xeric areas. Therefore, it is ese species interact in the urban environment. We 8-2016) abundance of the White-fronted Parrot tropical cities of Xalapa and Coatepec, in Central we studied the feeding ecology during 13 months the city of Xalapa. The abundance of the Whitey higher in Xalapa than in Coatepec, and it was

Non-native plants represented 30-41% of nere seeds were the most commonly consumed est Psittacidae species richness and highest diet end of the dry season (April-May). The Whiteplant richness in its diet, followed by the Monk hus) and the Green Parakeet (Psittacara nted Parrot had a specialized diet dominated by busta and Ficus aurea). The diet overlap among rot species was not significantly different to a null Parrot and the Monk Parakeet overlapped during lune, and September. The White-fronted Parrot is essfully expanded its geographic range via natural ies. The invasive Monk Parakeet is currently and it has remained in that stage for many years otic plant species in Xalapa represent similar to some of which have longer flowering and fruiting ne successful establishment of parrot species in

Monk Parakeet, Myiopsitta-Monachus, Species Richness

Fuente de Artículos Científicos: https://jcr.clarivate.com

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Revista	AVIAN RESEARCH	
Volumen	13	
Número	n/a	
ISSN	2053-7166	
DOI	10.1016/j.avrs.2022.100019	
Título del Artículo	Abundance of White-fronted Parrots and diet of an urban parrot assemblage (<i>Aves: Psittaciformes</i>) in a green Neotropical city	
Autores e instituciones de adscripción	Álvarez-Castillo, C ^[1] ; MacGregor-Fors, I ^[2] ; Arriaga-Weiss, SL ^[1,3] ; Mota-Vargas, C ^[4] ; Santiago-Alarcon, D ^[1,5]	
	 AC CONACYT, Inst Ecol, Biol & Conservac Vertebrados, Xalapa, Veracruz, México Univ Helsinki, Biol & Environm Sci, Lahti, Finland 	
	[3] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Biol, Villahermosa, Tabasco, México	
	[4] AC CONACYT, Biol Evolut, Inst Ecol, Xalapa, Veracruz, México	
	[5] Univ S Florida, Dept Integrat Biol, Tampa, FL 33620 USA	
Resumen	Urban ecosystems are evolutionarily recent novel environments acing as biodiversity filters. Psittacidae birds are considered successful urban adapters mainly due to their generalist feeding and opportunistic behavior, allowing them to occupy environments from cold temperate to dry xeric areas. Therefore, it is important to understand how these species interact in the urban environment. We studied the interannual (2013-2016) abundance of the White-fronted Parrot (<i>Amazon albifrons</i>) in the Neotropical cities of Xalapa and Coatepec, in Central Veracruz, México. Additionally, we studied the feeding ecology during 13 months of 6 parrot species detected in the city of Xalapa. The abundance of the White-fronted Parrot was significantly higher in Xalapa than in Coatepec, and it was homogeneous across years. Non-native plants represented 30-41% of Psittacidae diets in Xalapa, where seeds were the most commonly consumed resource. We recorded the highest Psittacidae species richness and highest diet	
	overlap among species by the end of the dry season (April-May). The White- fronted Parrot had the highest plant richness in its diet, followed by the Monk Parakeet (<i>Myiopsitta monachus</i>) and the Green Parakeet (<i>Psittacara holochlorus</i>); yet, the White-fronted Parrot had a specialized diet dominated by two plant species (<i>Grevillea robusta and Ficus aurea</i>). The diet overlap among the three above-mentioned parrot species was not significantly different to a null model, where the White-fronted Parrot and the Monk Parakeet overlapped during the months of February, April, June, and September. The White-fronted Parrot is	
	an urban adapter that has successfully expanded its geographic range via natural means and by human activities. The invasive Monk Parakeet is currently restricted to one park in Xalapa, and it has remained in that stage for many years (i.e., pre-expansion phase). Exotic plant species in Xalapa represent similar to 55% of the woody vegetation, some of which have longer flowering and fruiting	
	periods that may have aided the successful establishment of parrot species in urban environments.	
Palabras claves	Monk Parakeet, Myiopsitta-Monachus, Species Richness	

Revista	REVISTA SAN GREGORIO
Volumen	1
Número	50
ISSN	ISSN:1390-7247 E ISSN: 2528-7907
DOI	10.36097/rsan.v0i50.2080
Título del Artículo	Marketing information system: Tool for decision-making and company management

Autores e instituciones de adscripción	Mezquita, ECZ ^[1] ; Fernández, Al [1] Univ Juárez Autónoma Tabasco, Villahermosa,
Resumen	This study describes the applic company and the subsystems that and business management. Doo EBSCO Host and Elsevier Scient development of the work. The re- company is reflected in accordat helps in decision-making and it information obtained both inter development of information syste- to manage all the data that it of competitors, the market, and of marketing discipline tool, its evol- that facilitate its management. company, but, as it is a network of difficult to understand and apply
Palabras claves	Business performance, Decision

RevistaREVISTA UNIVERSIDAD Y SOUVolumen14Número2ISSN2218-3620DOIN/ATítulo delEducational marketing to prever in high school studentsAutores e instituciones de adscripciónÁlvarez, HRP ^[1] ; Pérez, EDD ^[1] ; (1) Univ Juárez Autónoma Tabasco, Villahermosa,ResumenA social marketing strategy that adolescents. Before and after the their knowledge and attitudes ab For data analysis, the SPSS ver related samples were used. In the in 91.7% of the adolescents, ar areas in 79.2%, in the behaviora designed and implemented in 24 the final evaluation phase, 54 contraceptive methods. 70.8% o area, 37.5% in the affective a statistically significant pre-test a The research carried out show increasing knowledge and impre and unwanted pregnancies.Palabras clavesSocial marketing, Prevention, Pr		
Número2ISSN2218-3620DOIN/ATítulo del ArtículoEducational marketing to prever in high school studentsAutores e instituciones de adscripciónÁlvarez, HRP [¹]; Pérez, EDD [¹]; [¹] Univ Juárez Autónoma Tabasco, Villahermosa,ResumenA social marketing strategy that adolescents. Before and after the their knowledge and attitudes ab For data analysis, the SPSS ver related samples were used. In the in 91.7% of the adolescents, ar areas in 79.2%, in the behavioral designed and implemented in 24 the final evaluation phase, 54 contraceptive methods. 70.8% o area, 37.5% in the affective a statistically significant pre-test a The research carried out show increasing knowledge and impre- and unwanted pregnancies.PalabrasSocial marketing. Prevention. Pr	Revista	REVISTA UNIVERSIDAD Y SO
ISSN2218-3620DOIN/ATítulo del ArtículoEducational marketing to prever in high school studentsAutores e instituciones de adscripciónÁlvarez, HRP ^[1] ; Pérez, EDD ^[1] ; [1] Univ Juárez Autónoma Tabasco, Villahermosa,ResumenA social marketing strategy that adolescents. Before and after the their knowledge and attitudes ab For data analysis, the SPSS ver related samples were used. In the in 91.7% of the adolescents, ar areas in 79.2%, in the behaviora designed and implemented in 24 the final evaluation phase, 54 contraceptive methods. 70.8% o area, 37.5% in the affective a statistically significant pre-test a The research carried out show increasing knowledge and impre and unwanted pregnancies.PalabrasSocial marketing. Prevention. Pr		
DOIN/ATítulo del ArtículoEducational marketing to prever in high school studentsAutores e instituciones de adscripciónÁlvarez, HRP [1]; Pérez, EDD [1]; [1] Univ Juárez Autónoma Tabasco, Villahermosa,ResumenA social marketing strategy that adolescents. Before and after the their knowledge and attitudes ab For data analysis, the SPSS ver related samples were used. In the in 91.7% of the adolescents, ar areas in 79.2%, in the behaviora designed and implemented in 24 the final evaluation phase, 54 contraceptive methods. 70.8% o area, 37.5% in the affective a statistically significant pre-test a The research carried out show increasing knowledge and impre and unwanted pregnancies.PalabrasSocial marketing Prevention Pr		
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		Social marketing, Prevention, Pr

Revista	ITEA-INFORMACIÓN TÉCNICA
Volumen	119
Número	2
ISSN	ISSN: 1699-6887
	E ISSN: 2386-3765
DOI	10.12706/itea.2022.014
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MD [1]

, Tabasco, México

cation of marketing information systems in the nat comprise it from two aspects: decision-making ocumentary research, searching Google Scholar, ence Direct, finding 15 articles that supported the relevance of the implementation of a SIM in the dance with the empirical evidence found, which in the management of the company and the rnally and externally. It is concluded that the tems has been given by the need of the company constantly receives from customers, suppliers, other actors both inside and outside of it. As a plution is confirmed by the need to create models As a concept it is theoretically defined in the of elements, actors, and resources, this makes it in the company.

Making, Information Management

CIEDAD

nt pregnancy and sexually transmitted diseases

García, MHM^[1]; García, MIA^[1];

, Tabasco, México

at consisted of an educational intervention in 24 e strategy, a questionnaire was applied to assess bout STD prevention and contraceptive methods. version 21 program and the Student's T test for ne diagnostic phase, low knowledge was obtained an unfavorable attitude in cognitive and affective al area 33.3%. In the 2nd phase, the strategy was 24 educational sessions, lasting 2 hours each. In 4.2% obtained high knowledge in STDs and obtained a very favorable attitude in the cognitive area and 87.5% in the behavioral area, with and post-test differences with p value = 0.0001. ws that the marketing strategy was effective in roving attitudes towards the prevention of STDs

regnancy

A ECONÓMICA AGRARIA

Enero 2024

Universidad Juárez Autónoma de Tabasco

Suplemento Especial

Gaceta Juchimán

Fuente de Artículos Científicos: https://jcr.clarivate.com

Universidad Juárez Autónoma de Tabasco

Título del Artículo	The reused progesterone device in short-term protocols has the same effect on reproductive performance and progesterone profiles in Pelibuey ewes	
Autores e instituciones de adscripción	Luna-Palomera, C ^[1] ; Macías-Cruz, U ^[2] ; Sánchez-Davila, F ^[3] ; Ojeda-Robertos, NF ^[1] ; Peralta-Torres, JA ^[1] [1] Univ Juárez Autónoma Tabasco, Div Academ Ciencias Agr, Lab Reprod & Genet Anim, Av Univ S-N, Villahermosa 86400, Tabasco, México [2] Univ Autónoma Baja California, Inst Ciencias Agricolas, Mexicali, Baja California, México [3] Univ Autónoma Nuevo León, Lab Reprod Anim, Fac Agron, Francisco I Madero S-N, Escobedo 66050, Nuevo León, México	
Resumen	The aim was to evaluate the estrous behavior, gestation rate and P4 concentrations in Pelibuey ewes treated under a short synchronization protocol with new intravaginal devices (CIDRn) and reused (CIDR1 and CIDR2). The percentage of females in estrus, withdrawal time at estrus presentation, duration of estrus, gestation rate and percentage of retained devices were evaluated, likewise P4 concentrations on days -10 (input), -8, -6, -2 (withdrawal) and 0 (estrus day). Categorical variables were analyzed by Chi-square test, continuous variables by analysis of variance and P4 concentrations with repeated me -asures over time. There were no differences (P > 0.05) among ewes treated with CIDRn, CIDR1 and CIDR2 for any of the reproductive variables analyzed. It was concluded that the P4 release in reused devices is sufficient to achieve an adequate synchronization of estrus and pregnancy rate in Pelibuey breed ewes.	
Palabras claves	Estrous behavior, Reused Devise, Progesterone	

Revista	ITEA-INFORMACIÓN TÉCNICA ECONÓMICA AGRARIA	
Volumen	119	
Número	2	
ISSN	ISSN: 1699-6887 E ISSN: 2386-3765	
DOI	10.12706/itea.2022.013	
Título del Artículo	The equine Chorionic Gonadotropin (eCG) modifies testosterone levels, but not reproductive activity in Holstein bulls during winter	
Autores e instituciones	Ledezma-Torres, RA $^{[1]}\!;$ Sánchez-Davila, F $^{[1]}\!;$ Luna-Palomera, C $^{[2]}\!;$ Vásquez-Armijo, JF $^{[3]}$	
de adscripción	 Univ Autónoma Nuevo Leon, Agron Vet, Gen Escobedo 66054, Nuevo León, México Univ Juárez Autónoma Tabasco, Div Acad Ciencias Agr, Villahermosa 86280, Tabasco, México Univ Autónoma Estado México, Ctr Univ UAEM Temascaltepec, Km 67,5 Carr Fed Toluca Tejupilco, Temascaltepec 51300, México 	
Resumen	The objective of the present study was to evaluate the effect of the hormone equine chorionic gona-dotropin (eCG) on testosterone concentrations, sexual behavior and seminal quality in young Holsteinbulls. Twenty-one bulls of 12 +/- 3 months of age and $350 +/- 17$ kg of live weight were selected. They were assigned to the following three treatments: T1 = 500 IU of eCG (n = 7); T2 = 1000 IU of eCG (n = 7) and T3 = Control (saline; n = 7). The administration of eCG was performed weekly during the period that the experiment lasted. There was an effect of the treatment (p < 0.05) on the concentration of testosterone, being higher for the bulls that received 500 IU of eCG, followed by those that received 1000 IU of eCG. There was only a trend (p = 0.09) of the effect of eCG on the number of mounts, being higher for bulls that received 500 IU (2.78 +/- 0.35) and 1000 IU (3.29 +/- 0.35) compared to the control group (2.23 +/- 0.32). For the effect of the variables of sexual behavior, except for the reaction time to the first, second, and third mating. In conclusion, the application of eCG increased the concentration of testosterone, but without affecting sexual activity and seminal quality in young bulls during the winter season.	
Palabras claves	Scrotal Circumference, Sexual Behavior, Seminal Quality	

Revista	REVISTA MVZ CÓRDOBA
Volumen	27
Número	2
ISSN	ISSN: 0122-0268 eISSN: 1909-0544
DOI	10.21897/rmvz.2227
Título del Artículo	<i>Strongyloides sp.</i> resistant to a México
Autores e instituciones de adscripción	Ojeda-Robertos, NF ^[1] ; Aguirre-S Martínez, LN ^[1] ; Peralta-Torres, Rodríguez-Vivas, RI ^[3]
	 Univ Juárez Autónoma Tabasco, Div Acad Cienc Rancho La Carolina, Villahermosa, Tabasco, Méz Univ Autónoma Yucatán, Fac Med Vet & Zootecr
Resumen	Objective: The anthelmintic e Strongyloides sp. populations wa with natural infections in the Mex calves were included in the study (15 specimens each), according to gram of faeces (EPG), namely: group (benzimidazoles), which r IMIDA group (imidazothiazole subcutaneously. Faeces were of (pre-treatment) and 10 (post-treat The samples were processed us were analysed using the RESO reduction and their 95% confider exhibited 94% reduction in EPG (95% CI 95% reduction in EPG (95% CI México on the occurrence of benzimidazoles and imidazothia Mexican tropic.
Palabras claves	Anthelmintic Resistance, Gastroi

Revista	AGRONOMY-BASEL
Volumen	12
Número	8
ISSN	2073-4395
DOI	10.3390/agronomy12081794
Título del	Soil Biological Activity, Carbor
Artículo	Agroforestry Systems in México
Autores e instituciones de adscripción	Ayala-Montejo, D ^[1,2] ; Valdés-Vé Prado, E [^{5]} ; Sánchez-Hernández [1] CONACYT El Colegio Frontera Sur, Av Insurge [2] El Colegio Frontera Sur, Dept Agr Soc & Ar Villahermosa 86280, Tabasco, México [3] Univ Autónoma Chapingo, Ctr Agroforesteria D Texcoco, México [3] Univ Autónoma Chapingo, Ctr Agroforesteria D Texcoco, México [4] Colegio Postgrad, Postgrad Edafol, Campus Me [5] Univ Autónoma Chapingo, Ctr Reg Univ Oriente [6] Univ Juárez Autónoma Tabasco, Div Acad Cience 86298, Tabasco, México [7] Higher Council Sci Res CSIC, IRNASa, Salama
	[8] Univ Valladolid INIA, Inst Gest Forestal Sosteni

albendazole and levamisole in buffaloes from

Serrano, AM ^[1]; de la Cruz, RC ^[1]; Hernández-JA^[1]; Chay-Canul, AJ^[1]; Priego-García, JA^[2];

cias Agr, Villahermosa, Tabasco, México Svico nia. Mérida. Yucatán. México

efficacy of albendazole and levamisole in as assessed in buffalo calves (Bubalus bubalis) exican tropic. Materials and methods. 45 buffalo y and distributed into three experimental groups to the excretion of eggs of Strongyloides sp. per (a) Control group: without deworming; (b) BZ received oral albendazole (10 mg/kg); and (c) es) that received levamisole (8 mg/kg) obtained directly from the rectum on days zero eatment) to determine the EPG of each animal. sing the McMaster technique. The EPG results software to determine the percentages of egg ence intervals (95% CI). Results. The BZ group (95% CI = 87-97), and the IMIDA group exhibited = 84-99). Conclusions. This is the first report in Strongyloides sp. populations resistant to azoles in naturally infected buffaloes from the

intestinal Nematodes, Haemonchus-Contortus

on and Nitrogen Dynamics in Modified Coffee /elarde, E^[3]; Benedicto-Valdés, GS^[4]; Escamillaez, R^[6]; Gallardo, JF^[7]; Martínez-Zurimendi, P^[2,8] entes Sur 1582. México City 03940. DF. México mbiente, Unidad Villahermosa, Carretera Villahermosa Reforma Km 15-5, Desarrollo Sostenible, Carretera México Texcoco Km 38-5, Chapingo 56230, Desarrollo Sostenible, Carretera México Texcoco Km 38-5, Chapingo 56230, Iontecillo, México City 56230, DF, México nte, Carretera Huatusco Jalapa Km 6, Huatusco 94100, Veracruz, México ncias Agr, Carretera Villahermosa Teapa Km 25-2 Rancheria Hu, Villahermosa anca 37008, Spain nible IUFOR, Av Madrid 44, Palencia 34004, Spain

claves

Fuente de Artículos Científicos: https://jcr.clarivate.com

Enero 2024

Universidad Juárez Autónoma de Tabasco

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Fuente de Artículos Científicos: https://jcr.clarivate.com

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_		Resumen	met
Resumen	(1) Background: Coffee agroforestry systems (CAFS) in Veracruz, México, are		prot
	being displaced by avocado monocultures due to their high economic value. This		whic
	change can generate alterations in the type of organic residues produced and soil		expl
	biological activity (SBA) which is sensitive to climatic variations, changes in		aspl
	floristic composition, and agronomic management. It can be evaluated through		land
	soil respiration and macrofauna, both related to soil carbon (C) and nitrogen (N)		
	dynamics. The objective was to: (1) Analyze the variation of SBA as well as the		WH
	C and N dynamics in modified coffee agroforestry systems; (2) Methods: Three		usin
	CAFS (renewed, intensive pruning, and with the introduction of avocados) and an	Palabras	Mag
	avocado plantation were compared. The evaluations were conducted during the	claves	Wea
	period 2017-2019. Soil parameters (respiration, macrofauna, C and N contents)		
	and C content of plant biomass were measured in plots of 25 x 25 m(2) from three		
	soil depths in triplicate. Spearman's test and a principal component analysis were		
	performed to determine the structural dependence on C and N dynamics; (3)	Deviate	
	Results: The introduction of avocado showed the lowest soil respiration values	Revista	BRA
	(with 193 g CO ₂ ha(-1) h(-1) at 0-10 cm depth), this system did not display soil	Volumen Número	24 4
	macrofauna and increased soil organic carbon content. The soil C/N ratio was	ISSN	4 ISSI
	sensitive to the introduction of avocado. Correlation between soil respiration and	1001	elS
	litter-related parameters was positive, but it was negatively correlated with soil	DOI	10.1
	organic matter and total soil nitrogen, explaining 67.7% of the variation; (4)	Título del	Pred
	Conclusions: Modification of CAFS generated variations in the SBA and soil C	Artículo	Mex
	and N contents.	Autores e	Por
Palabras		instituciones	^[3] ; R
claves	Agroforestry System Renewed, Avocado, C Storage	de adscripción	·

Revista	INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY		
Volumen	20		
Número	8 ISSN: 1735-1472 eISSN: 1735-2630		
ISSN			
DOI	10.1007/s13762-022-04515-y		
Título del Artículo	Remediation and re-use of weathered hydrocarbon residue for the preparation of dense asphaltic mixtures		
Autores e instituciones de adscripción	Hernández-Acosta, L ^[1] ; Domínguez-Rodríguez, VI ^[1] ; Adams, RH ^[1] ; Jiménez- Zapata, KC ^[1] [1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Biol, Carretera Villahermosa Cardenas Km 0-5 S-N, Villahermosa 86150, Tabasco, México Legacy sites used for petroleum storage and refining exist in various parts of the world, and many contain soils with very viscous petroleum hydrocarbons produced by poor historical practices and many decades of weathering, especially in tropical and subtropical climates. This contamination causes land- use restrictions and may threaten natural resources and living organisms. The possibility of re-valorization of such a weathered hydrocarbon residue (WHR) was investigated for road-base (dense asphaltic mixture), considering site restrictions (re-use only on-site, construction possibilities, volume of residue, sandy soil). Fifty different mixtures were prepared in an iterative process to (1) use the maximum amount of WHR possible, (2) use the minimum amount of gravel possible, (3) meet the main national construction criteria for medium-traffic roadways, and (4) avoid leachate contamination of subsoil and groundwater. The ideal asphaltic mixture achieved was composed of 16.7% hydrocarbon residue, 60.17% sand (from the site), 20.00% commercial gravel and 3.13% Portland cement (filler). It		
Resumen			

	using additives to strengthen the
Palabras claves	Weathered hydrocarbons, Altern
Revista	BRAZILIAN JOURNAL OF POU
Volumen	24
Número	4
ISSN	ISSN: 1516-635X eISSN: 1806-9061
DOI	10.1590/1806-9061-2022-1633
Título del Artículo	Predictive Equations of Carcass (Mexican Guajolotes Using Body
Autores e instituciones de adscripción	Portillo-Salgado, R ^[1] ; Herrera-Ha ^[3] ; Ramírez-Bribiesca, JE ^[1] ; Orte [1] Colegio Postgrad, Programa Ganaderia, Campus México [2] Colegio Postgrad, Dept Ciencias Agr, Campus C [3] Univ Juárez Autónoma Tabasco, Div Acad Cienc
Resumen	This study was conducted to characteristics and primal cut we measurements (BM). For this si gallopavogallopavo), aged 6 to (SBW) of 4543.14 +/- 656.60 g, we extensive conditions. Thefollow thoracicperimeter (TP), body circ (WL), keel length (KL), shank slaughter, hot carcass weight (H percentage (HDP), cold dressing (VIS) and abdominal fat weight dissected in to five primal cut (bre and BMs showed moderate to hig with carcass characteristics and to predict HCW, CCW, HDP, CE 0.96, and the predictor variables equations developed to predict to 0.91. In these models, SBW, BC, variation. The prediction equation accuracy; therefore, they can be producers to obtain information guajolotes.
Palabras claves	In-vivo Estimation, Regression E

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et construction criteria (>= 700 Kgf, 2-4 mm flux, according to the Marshall ptocol) and had 3.39 mg/L of total petroleum hydrocarbons in TCLP-leachates, ich were also non-toxic (filter-paper earthworm bioassay). Thus, the ploitation of a very WHR was shown to be an alternative to replace conventional phaltic mixtures (thus providing another option for revalorization instead of ndfill disposal or alternative treatment). Also demonstrated was the value of very HRs, which may be present in old refineries, for asphalt production without binding characteristics.

native binders, Re-valorization

ULTRY SCIENCE

Characteristics and Primal Cut Weights of Native Measurements

laro, JG^[1]; Bautista-Ortega, J^[2]; Chay-Canul, AJ tega-Cerrilla, ME^[1]

us Montecillo, Carretera México Texcoco, Texcoco 56230, Estado De Mexic,

Campeche, Champoton 24450, Campeche, México ncias Agr, Villahermosa, Tabasco, México

to develop predictive equations for carcass veights of native Mexican guajolotes using body study, a total of 36 male guajolotes (Meleagris 10 months, and mean slaughter body weight were used. The birds were kept under traditional wingBMswererecorded24 h before slaughter: rcumference (BC), body length (BL), wing length length (SL) and shank diameter (SD). After HCW), cold carcass weight (CCW), hot dressing g percentage (CDP), organs and viscera weight ht (AFW) were recorded. The carcasses were reast, thigh, drumstick, back and wing). The SBW igh positive correlations (p<0.01; 0.34 <= r<0.97) primal cut weights. In the equations generated DP, VIS and AFW, the R2 ranged from 0.40 to were SBW, KL, BC, WL and SL. Regarding the the primal cut weights, R2 ranged from 0.58 to , SD, WL and KL explained most of the observed ons obtained in the study had moderate to high be used by researchers, technicians and poultry on the carcass composition of native Mexican

Equations, Meleagris-Gallopavo

Fuente

Enero 2024

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Fuente de Artículos Científicos: https://jcr.clarivate.com

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Revista	RSC ADVANCES
Volumen	12
Número	39
ISSN	elSSN: 2046-2069
DOI	10.1039/d2ra03552a
Título del Artículo	Photodegradation of 2,4-D (dichlorophenoxyacetic acid) with Rh/TiO ₂ ; comparative study with other noble metals (Ru, Pt, and Au)
Autores e instituciones de adscripción Reguero-Márquez, GA ^[1] ; LunaGómez-Rocha, MA ^[1] ; Cervantes-Uriber Ángel, G ^[2] ; Rángel, I ^[2] ; Torres-Torres, JG ^[1] ; González, F ^[2] ; Godava Arévalo-Pérez, JC ^[1] ; de los Monteros, AEE ^[1] ; Silahua-Pavón, AA ^[1]	
	Desarrollo Fuentes, DACB, Km 1 Carretera Cunduacán Jalpa Méndez AP 24, Cunduacán 86690, Tabasco, México [2] Univ Autónoma Metropolitana Iztapalapa, Dept Quim, Área Catalisis, CBI, Av San Rafael Atlixco 186, México City 09340, DF, México
	[3] Univ Juárez Autónoma Tabasco, Ctr Invest Ciencia & Tecnol Aplicada Tabasco CICT, DACB, Lab Nanomat Catalit Aplicados Desarrollo Fuentes, Km 1 Carretera Cunduacán Jalpa Méndez, Cunduacán 86690, Tabasco, México
Resumen	In this work the effect of noble metal on the photodegradation of 2,4- dichlorophenoxyacetic acid herbicide using TiO ₂ as support was studied. The metals and concentration were: Rh, Ru, Pt and Au and 1, 0.98, 1.89, and 1.91 wt% respectively. Rhodium was taken as reference for this experiment. The samples were characterized by X-Ray Diffraction (XRD), UV-vis absorption spectra, N-2 physisorption (BET Specific Surface Area), High Annular Angle Analysis Darkfield (HAADF) and Transmission Electron Microscopy Scanning (STEM), H-2 chemisorption, optical emission spectroscopy with inductive coupling plasma analysis (ICP-OES), solid fluorescence, X-ray Photoelectron Spectroscopy (XPS) and OH quantification. The presence of the anatase crystalline phase was mostly confirmed in all samples. The band gap decreased with the presence of metal (from 3.24 to 2.92 eV). The specific area was a function of the metal particle size. The metal particle diameter showed the following sequence Pt > Ru > Au > Rh. By XPS, TiO2 does not manifest changes in oxidation states, but when impregnated with metals, only Pt shows the highest abundance of any oxidized state (Pt2+). The presence of metal reveals less electron-hole recombination compared with titanium oxide. The results of photocatalytic activity showed that Pt and Rh are the two metals with the highest mineralization (99.0 and 98.3%, respectively).
Palabras claves	Photocatalytic Activity, TiO ₂ Photocatalysts, Nanoparticles

TROPICAL ANIMAL HEALTH AND PRODUCTION	
54	
5	
ISSN: 0049-4747	
elSSN: 1573-7438	
10.1007/s11250-022-03276-7	
Models to predict live weight from heart girth in crossbred beef heifers	
models to predict live weight from heart girth in crossbred beer heliers	
Chico-Alcudia, DR ^[1] ; Portillo-Salgado, R ^[2] ; Camacho-Pérez, E ^[3] ; Peralta- Torres, JA ^[1] ; Ángeles-Hernández, JC ^[4] ; Munoz-Benítez, AL ^[4] ; Lendechy, VHS ^[5] ; Gurgel, ALC ^[6] ; Difante, GD ^[6] ; Itavo, LCV ^[6] ; Chay-Canul, AJ ^[1]	
[1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Agr, Villahermosa, Tabasco, México	
[2] Colegio Postgrad, Programa Ganaderia, Texcoco, Edo De México, México	
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[4] Univ Autónoma Estado Hidalgo, Inst Ciencias Agr, Tulancingo De Bravo, Hidalgo, México	
[5] Univ Autónoma Chiapas, Ctr Estudios Etnoagr, San Cristóbal de las Casa, Chiapas, México	
[6] Univ Fed Mato Grosso Do Sul, Fac Med Vet & Zootecnia, Campo Grande, MS, Brazil	

Resumen	The objective of this study was exponential mathematical mode in crossbred heifers raised in t (363.32 +/- 150.88 kg) and HG heifers aged between 3 and 24 used to construct the prediction evaluated using the Akaike info criterion (BIC), coefficient of dete root MSE (RMSE). In addition, internal and external cross-valid of the fitted models to predict th root mean square error of pred (MAE). The correlation coefficien The quadratic model showed the AIC (3783.95), and BIC (3799 goodness-of-fit values regarding R-2 and lower RMSEP and MAE RMSE represented about 8% of (r = 0.98) with LW. The quadratic crossbred heifers kept in tropical
Palabras claves	Body Weight, Crossbred cattle,

Volumen27Número1ISSNISSN: 0122-0268 eISSN: 1909-0544DOI10.21897/rmvz.2359Título del ArtículoMilk production of Holstein x GyAutores e instituciones de adscripciónPeralta-Torres, JA ^[1] ; Izquierd Segura-Correa, JC ^[3] (1) Univ Juárez Autónoma Tabasco, Div Acad Cier [2] Univ Autónoma Chiapas, Ctr Estudios Etnoagr, [3] Univ Autónoma Yucatán, Fac Med Vet & ZooteResumenObjective. To determine the effe season of calving on lactation ler per day (MPD) of dual-purpose (Holstein x Gyr cows (0 to 75% H the humid tropics of Chiapas, Me using survival analysis, and that model included the effects of BO season of calving. Results. The days; 2125.1 +/- 568.7 kg; 9.66 variables. The hazard ratio (HR) higher risk of being dry-off earlie to 75% Holstein group. The HR season (HR=1) than those calvi 0.446, respectively). The risk t (HR=2.198). The LL of cows wi BG, PN and season of calving a Palabras clavesPalabras clavesCalving Number, Daily Milk Proce	Revista	REVISTA MVZ CORDOBA
Número1ISSNISSN: 0122-0268 eISSN: 1909-0544DOI10.21897/rmvz.2359Título del ArtículoMilk production of Holstein x GyAutores e instituciones de adscripciónPeralta-Torres, JA [1]; Izquierd Segura-Correa, JC [3]Il) Univ Juárez Autónoma Tabasco, Div Acad Cier [2] Univ Autónoma Chiapas, Ctr Estudios Etnoagr, [3] Univ Autónoma Yucatán, Fac Med Vet & ZooteResumenObjective. To determine the effect season of calving on lactation ler per day (MPD) of dual-purpose (Holstein x Gyr cows (0 to 75% H the humid tropics of Chiapas, Mé using survival analysis, and that model included the effects of BC season of calving. Results. The days; 2125.1 +/- 568.7 kg; 9.66 variables. The hazard ratio (HR) higher risk of being dry-off earlie to 75% Holstein group. The HR season (HR=1) than those calvi 0.446, respectively). The risk t (HR=2.198). The LL of cows wi BG, PN and season of calving a PalabrasPalabrasCalving Number, Daily Milk Proc		
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Calving Number Daily Milk Proc	Resumen	season of calving on lactation ler per day (MPD) of dual-purpose (Holstein x Gyr cows (0 to 75% H the humid tropics of Chiapas, Me using survival analysis, and that model included the effects of BC season of calving. Results. The days; 2125.1 +/- 568.7 kg; 9.66 variables. The hazard ratio (HR) higher risk of being dry-off earlie to 75% Holstein group. The HR season (HR=1) than those calvi 0.446, respectively). The risk t (HR=2.198). The LL of cows wi
		Calving Number, Daily Milk Proc

as to develop and evaluate linear, quadratic, and els to predict live weight (LW) from heart girth (HG) tropical humid conditions in México. Live weight G (166.83 +/- 24.88 cm) were measured in 400 4 months. Linear and non-linear regression was n models. The goodness of fit of the models was ormation criterion (AIC), the Bayesian information termination (R-2), mean squared error (MSE), and the developed models were evaluated through dation (k-folds) using independent data. The ability the observed values was evaluated based on the ediction (RMSEP), R-2, and mean absolute error ent between LW and HG was r = 0.98 (P < 0.001). e lowest values of MAE (736.57), RMSEP (27.13), 99.91). Additionally, this model exhibited better ng external and internal validation criteria (higher E), thus having better predictive performance. The of the observed LW. Heart girth is highly correlated atic model showed a high predictive capacity for al conditions.

Thoracic Perimeter

yr cows in a dual-purpose system in the tropics

do-Camacho, Y^[1]; Severino-Lendechy, VH^[2];

encias Agr, Villahermosa, Tabasco, México . San Cristóbal de las Casa. Chiapas. México ecnia, Mérida, Yucatán, México

fect of breed group (BG), parity number (PN) and ength (LL), milk production per lactation (MPL) and (DP) cows. Material and methods. Data from 160 Holstein) managed in a DP production system in léxico were used. Information for LL was analyzed t for MPL and MPD by general linear models. The 3G (0-25%, 50% and 62.5-75% Holstein), PN and e means for LL, MPL, MPD were 219.3 +/- 39.6 +/- 1.96 kg, respectively. BG and PN affected all R) of 1.815 indicates that 0-25% Holstein cows had lier than F1 cows, which had similar LL than 62.5 R was higher for cows calving in the windy-rainy ving in the dry and rainy seasons (HR=0.448 and that a primiparous cow was dry-off was higher vith 2 and >= 3 parities was similar. Conclusions. affected LL and milk yield of dual-purpose cows.

duction, Humid Tropic

Enero 2024

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Suplemento Especial

Gaceta Juchimán

Resumen

Palabras

claves

Fuente de Artículos Científicos: https://jcr.clarivate.com

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Revista	MOLECULES		
Volumen	27		
Número	16		
ISSN	elSSN: 1420-3049		
DOI	10.3390/molecules27165166		
Título del Artículo	Maize Flavonoid Biosynthesis, Regulation, and Human Health Relevance: A Review		
Autores e instituciones de adscripción	 Peniche-Pavia, HA ^[1]; Guzmán, TJ ^[2]; Magaña-Cerino, JM ^[3]; Gurrola-Díaz, CM ^[4]; Tiessen, A ^[4] [1] Ctr Invest Estudios Avanzados Inst Politecn Nacl, Dept Bioquim & Biotecnol, Libramiento Norte Km 9-6, Guanajuato 36824, México [2] Univ Munster, Inst Pharmaceut & Med Chem, Dept Pharmacol, Corrensstr 48, D-48149 Munster, Germany [3] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Salud, Ctr Invest Posgrad, Gregorio Méndez Magaña 2838 A Col Tamulte Barranc, Villahermosa 86150, Tabasco, México [4] Univ Guadalajara, Inst Invest Enfermedades Cron Degenerativa, Inst Transdisciplinar Invest Innovac Salud, Dept Biol Mol & Genom, Ctr Univ Ciencias Salud, C Sierra Mojada 950 Col Independencia, Guadalajara 44340, Jalisco, México 		
Resumen	Maize is one of the most important crops for human and animal consumption and contains a chemical arsenal essential for survival: flavonoids. Moreover, flavonoids are well known for their beneficial effects on human health. In this review, we decided to organize the information about maize flavonoids into three sections. In the first section, we include updated information about the enzymatic pathway of maize flavonoids. We describe a total of twenty-one genes for the flavonoid pathway of maize. The first three genes participate in the general phenylpropanoid pathway. Four genes are common biosynthetic early genes for flavonoids, and fourteen are specific genes for the flavonoid subgroups, the anthocyanins, and flavone C-glycosides. The second section explains the tissue accumulation and regulation of flavonoids by environmental factors affecting the expression of the MYB-bHLH-WD40 (MBW) transcriptional complex. The study of transcription factors of the MBW complex is fundamental for understanding how the flavonoid profiles generate a palette of colors in the plant tissues. Finally, we also include an update of the biological activities of C3G, the major maize anthocyanin, including anticancer, antidiabetic, and antioxidant effects, among others. This review intends to disclose and integrate the existing knowledge regarding maize flavonoid pigmentation and its relevance in the human health sector.		
Palabras claves	Zea mays L, Anthocyanins, Biosynthesis		

Revista	BIOMEDICINES		
Volumen	10		
Número	8		
ISSN	2227-9059		
DOI	10.3390/biomedicines10081919		
Título del Artículo	Increased Levels of HbA1c in Individuals with Type 2 Diabetes and Depression: A Meta-Analysis of 34 Studies with 68,398 Participants		
Autores e instituciones de adscripción	Genis-Mendoza, AD ^[1] ; González-Castro, TB ^[2] ; Tovilla-Vidal, G ^[3] ; Juárez-Rojop, IE ^[4] ; Castillo-Avila, RG ^[3] ; López-Narváez, ML ^[4] ; Tovilla-Zárate, CA ^[5] ; Sánchez-De la Cruz, JP ^[5] ; Fresan, A ^[6] ; Nicolini, H ^[1]		
	 Inst Nacl Med Genom, Lab Genom Enfermedades Psiquiatr & Neurodegenerat, Ciudad De México 14610, México Univ Juárez Autónoma Tabasco, Div Acad Multidisciplinaria Jalpa de Méndez, Jalpa De Méndez 86040, Tabasco, México Univ Juárez Autónoma Tabasco, Div Acad Ciencias Salud, Villahermosa 86100, Tabasco, México Hosp Chiapas Nos Une Dr Gilberto Gómez Maza, Secretaría Salud Chiapas, Tuxtla Gutiérrez 29045, Chiapas, México Univ Juárez Autónoma Tabasco, Div Acad Multidisciplinaria Comalcalco, Comalcalco 86040, Tabasco, México Univ Juárez Autónoma Tabasco, Div Acad Multidisciplinaria Comalcalco, Comalcalco 86040, Tabasco, México Inst Nacl Psiquiatria Ramon de la Fuente Muniz, Subdirecc Invest Clin, Ciudad De México 14370, México 		

Glycosylated hemoglobin is use metabolic control. Depression HbA1c in individuals with T depression suggests the useful of depressive symptoms. The a individuals with T2DM with vs. influence of pharmacological tr disease. We performed a litera January 2020. A total of 34 a individuals with T2DM with de comparison to individuals with T2D drugs (d = 0.20 95% Cl: 0.11-0 less than 10 years of evolution 66.03) and in individuals with 0.07-0.26, p(Z) < 0.001; I-2 = individuals with T2DM with de controls with T2DM with de controls with T2DM without of elevated in individuals who wer 10 years of disease evolution, It is necessary to examine connection.
Diabetes, HbA1c, Depression

Revista	HELMINTHOLOGIA
Volumen	59
Número	2
ISSN	ISSN: 0440-6605 eISSN: 1336-9083
DOI	10.2478/helm-2022-0017
Título del Artículo	Identification of somatic proteins and adults
Autores e instituciones de adscripción	Zaragoza-Vera, M ^[1] ; Gonzále Caballero, AJ ^[1] ; Zaragoza-Vera ^[4] ; Aguilar-Hernández, V ^[5] ; Torr
	 Univ Autónoma Yucatán, Fac Med Vet & Zoote Univ Autónoma Chapingo, Unidad Reg Univ Sur Univ Juárez Autónoma Tabasco, Lab Enferme 86040, Tabasco, México Ctr Invest Cient Yucatán, Unidad Bioquim & Bio Ctr Invest Cient Yucatán, Catedrat CONACYT,
Resumen	Haemonchus contortus is consi production systems based on gr parasites can lead to the identif parasite-host interactions. In thi proteins and made a comparat worms. L ₃ and adult parasite subsequently to peptide frac spectrometry and LC-MS/MS SEQUEST and MASCOT agai database resulted in the iden corresponding to 227 pro-teins a

22

ed to diagnose type 2 diabetes mellitus and assess n itself has been associated with high levels of [2DM. The association between diabetes and Iness of determining HbA1c as a biological marker aim of this study was to determine HbA1c levels in without depression. Additionally, we analyzed the reatments, time of evolution, and complications of ature search in different databases published up to articles were included. Our results showed that lepression showed increased levels of HbA1c in T2DM without depression (d = 0.18, 95% CI: 0.12-00). We also found that HbA1c levels remained DM with depression who were taking hypoglycemic -0.30, p(Z) < 0.001; I-2 = 86.80), in individuals with n (d = 0.17 95% CI: 0.09-0.26, p(Z) = 0.001; I-2 = complications of the disease (d = 0.17, 95% CI: = 58.41). Our results show that HbA1c levels in epression are significantly increased compared to depression. Additionally, these levels remained re taking hypoglycemic drugs, those with less than and those with complications related to diabetes.

the existence of a diabetes-HbA1c-depression

ns in Haemonchus contortus infective larvae (L-3)

lez-Garduno, R^[2]; Brito-Argáez, L^[4]; Aguilara, CV^[1]; Arjona-Jiménez, G^[3]; Loyola-Vargas, VM rres-Chable, OM^[3]

tecnia, Campus Ciencias Biol & Agr, Km 15-5, Mérida 97100, Yucatán, México ursureste, Km 7-5 Carretera Teapa Vicente Guerrero, Teapa, Tabasco, México nedades Trop & Transmitidas Vectores, Div Acad Ciencias Agr, Villahermosa

Biol Mol Plantas, Mérida, Yucatán, México , Unidad Bioquim & Biol Mol Plantas, Mérida, Yucatán, México

sidered the most pathogenic nematode in sheep grazing. Comparing infective larvae (L₃) with adult ifi cation of proteins that play an important role in nis study, we report a list of H. contortus somatic tive analysis of somatic proteins of L₃ and adult tes were subjected to protein extraction and ctionation. Peptides were analysed by mass data analysis. Data analysis and search on ainst H. contortus from the WormBase ParaSite entifi cation of 775 unique peptide sequences corresponding to 227 pro-teins at 1 % FDR. From these, 18 proteins were specific

Enero 2024

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Resumen	to L_3 and 63 to adult parasites. The gene ontology (GO) enrichment analysis of the proteins specifi c to L_3 and adult worms to gain insight into cellular components, molecular functions and biological processes that affect the parasite-host inter-action showed some differences between the two parasite stages. The list of proteins found provides a database to identify target proteins that could be useful as biomarkers of the infection or in the generation of anthelmintic drugs that inhibit proteins essential for the establishment of the infection and the survival of adult parasites. They can also serve as new candidates for vaccine research.
Palabras claves	Gastrointestinal Parasites, Biomarkers, Ewes

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Revista	LIFE-BASEL		
Volumen	12		
Número	8		
ISSN	2075-1729		
DOI	10.3390/life12081243		
Título del Artículo	Herbal Vitamin C Prevents DNA Oxidation and Modifies the Metabolomic Water Profile of Tilapia (<i>Oreochromis spp.</i>)		
Autores e instituciones de adscripción	Villanueva, M ^[1] ; Espinosa-Reyes, G ^[2] ; Flores-Ramírez, R ^[2] ; Rojas-Velázquez, AN ^[1] ; López, JCG ^[1] ; Vázquez-Valladolid, A ^[2] ; Roque-Jiménez, JA ^[3] ; Mendoza-Martínez, GD ^[3] ; Hernández-García, PA ^[4] ; Palacios-Martínez, M ^[3] ; Chay-Canul, AJ ^[5] ; Lee-Rángel, HA ^[1]		
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	[2] Univ Autónoma San Luis Potosí, Ctr Invest Aplicada Ambiente & Salud, Fac Med CIACYT, Lomas Segunda Secc, San Luis Potosí 78210, San Luis Potosí, México		
	[3] Univ Autónoma Metropolitana Xochimilco, Dept Prod Anim, México City 04960, DF, México		
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	[5] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Agr, Carretera Villahermosa Teapa, km 25, RA Huasteca, Villahermosa 86280, Tabasco, México		
Resumen	This experiment aimed to evaluate the effects of herbal vitamin C at different levels on tilapia (<i>Oreochromis spp.</i>) growth, potential DNA damage, and the metabolomic profile of water effluent. Forty-five tilapias were housed in separate plastic tanks (80 L), and these were randomly assigned to three treatments: (a) a commercial diet (CD) only; (Nutripec Purina®); (b) the commercial diet plus 250 mg of herbal vitamin C (HVC)/kg (CD250); and (c) the commercial diet plus 500 mg of HVC/kg (CD500). Biometric measurements were taken each week, blood samples were collected from the caudal vein on the final day, and water effluent was taken each week and immediately frozen (-80 °C) until further analysis (gas chromatography/mass spectrometry (GC/MS) systems). Data were completely randomized with a 2 × 2 factorial arrangement of treatments. Upon including herbal vitamin C, the final BW (p = 0.05) and BWG (p = 0.06) increased linearly. Herbal vitamin C decreases DNA damage (p ≥ 0.05). PLS-DA showed a 41.6% variation between treatments in the water samples. Fifteen metabolites had the best association between treatments, with a stronger correlation with CD500. Herbal vitamin C could improve fish performance, prevent DNA damage, and influence changes in the metabolomic profile of the water.		
Palabras claves	Herbal Vitamin C, DNA, Damage		

Revista	ENVIRONMENTAL SCIENCE A
Volumen	30
Número	5
ISSN	ISSN: 0944-1344
DOI	elSSN: 1614-7499 10.1007/s11356-022-22962-5
	Ferulic acid supplementation for
Título del	heat stress: short-term effects o
Artículo	and hematological profile
Autores e instituciones de adscripción	Nicolás-López, P ^[1] ; Macías-Cru KM ^[1] ; Mellado, M ^[2] ; Meza-Herr Vicente-Pérez, R ^[5] ; Luna-Palom [1] Univ Autónoma Baja California, Inst Ciencias Ag
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	[3] Univ Autónoma Chapingo, Unidad Reg Univ Zor
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	[5] Univ Guadalajara, Dept Prod Agr, CUCSUR, Au
	[6] Univ Juárez Autónoma Tabasco, Div Acad Cien
	objective was to evaluate the e responses, serum analyte conce stressed hair ewe lambs. Twenty weight =23.5 +/- 2.8 kg and age= days and assigned under a rand treatments (n=11): basal diet wit x sampling day interaction only a hormones; particularly on day 20 the insulin to glucose ratio of
	supplemental FA did not affect surface temperatures, feedlot metabolites, electrolytes, triiodo tended to decrease (P >= 0.09) e (P =0.08) mean corpuscular volu improve the growth nor thermo- lambs. Still, it partially modulate adaptive mechanisms when the
Palabras claves	Energy metabolism, Hair breed s

Revista	THIN SOLID FILMS
Volumen	758
Número	n/a
ISSN	ISSN: 0040-6090 eISSN: 1879-2731
DOI	10.1016/j.tsf.2022.139427
Título del	Effect of thermal treatment and o
Artículo	sputtering on the photovoltaic res
Autores e instituciones de adscripción	Mendoza-Pérez, R ^[1] ; Ruiz-Rodr J ^[2] ; Hernández-Santos, M ^[1] ; A Contreras-Puente, G ^[2]
	[1] Univ Autónoma Ciudad México, Plantel San Lor
	[2] Inst Politecn Nacl, Escuela Super Fis & Matema
	[3] Univ Juárez Autónoma Tabasco, Villahermosa 8

ND POLLUTION RESEARCH

40 days in hair ewe lambs experiencing seasonal on physiological responses, growth, metabolism,

uz, U^[1]; Avendano-Reyes, L^[1]; Valadez-García, rera, CA^[3]; Díaz-Molina, R^[4]; Castañeda, VJ^[1]; nera, C^[6]

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ral compound with antioxidant properties which of cold stress in sheep; however, its impact on heat-stressed sheep has not been defined. The effects of FA supplementation on physiological entrations, and the hematological profile of heatty-two Dorper x Katandin ewe lambs (initial body =4 months) were housed in individual pens for 40 domized complete block design to the following th 0 (control) or 250 mg of FA/kg of feed. The FA affected serum concentration of some metabolic) of the trial, FA increased (P < 0.01) insulins and while decreased (P=0.05) thyroxine. Overall, rectal temperature, respiratory rate, most body performance, and serum concentrations of lothyronine, and cortisol. In addition, FA only erythrocyte count and plaquetocrit and to increase ume. In conclusion, FA supplementation did not oregulatory capacity of heat-stressed hair ewe ed the metabolism to reinforce some energetic ambient temperature was >= 35 degrees C.

sheep, Heat stress

deposition conditions of ZnO by radio frequency esponse of CdTe solar cells

ríguez, LM ^[3]; Del Oso, JA ^[1]; Sastré-Hernández, Aguilera-Trujillo, H^[2]; Pérez-Hernández, G^[3];

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Enero 2024

Suplemento Especial

Universidad Juárez Autónoma de Tabasco

Gaceta Juchimán

Resumen

Palabras

claves

Revista

can decrease the F:G ratio.

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Revista	ANIMALS
Volumen	12
Número	17
ISSN	2076-2615
DOI	10.3390/ani12172269
Título del Artículo	Effect of the Inclusion of Bacillus spp. in Growing-Finishing Pigs' Diets: A Meta- Analysis
Autores e instituciones	González-Ronquillo, M ^[1] ; Villegas-Estrada, D ^[1] ; Robles-Jiménez, LE ^[2] ; Herrera, RAG ^[2] ; Villegas-Vázquez, VL ^[1] ; Vargas-Bello-Pérez, E ^[3]
de adscripción	[1] Univ Autónoma Estado México, Fac Med Vet & Zootecnia, Dept Nutr Anim, Inst Literario 100, Toluca 50000, Estado De México, México
	[2] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Agr, Km 25, R-A Huasteca 2a Secc, Villahermosa 86280, Tabasco, México
	[3] Univ Reading, Sch Agr Policy & Dev, Dept Anim Sci, POB 237, Reading RG6 6EU, Berks, England
Resumen	Simple Summary Dietary probiotics are an alternative to antibiotic inclusion in pigs, the modulation of the intestinal environment, the inhibition of pathogen's colonization by an increase in microbial competition in the gastrointestinal tract, and the regulation of mucosal immunity. These factors can lead to improvements in animal's health and, therefore, productivity. The objective of this study was to use a meta-analysis approach to ascertain the effect of Bacillus spp. on growth performance of growing-finishing pigs and then to assess causes for the heterogeneity of responses detected using meta-regression. Overall, the inclusion of Bacillus spp. (median 486 mg/d) in growing-finishing pigs can increase the average daily gain (ADG) and decrease the feed: gain ratio (F:G). This meta-analysis determined the effect of Bacillus spp. on growth performance of growing-finishing pigs and then assessed causes for the heterogeneity of responses detected using meta-regression. Overall, the inclusion the average daily gain (ADG) and decrease the feed: gain ratio (F:G). This meta-analysis determined the effect of Bacillus spp. on growth performance of growing-finishing pigs and then assessed causes for the heterogeneity of responses detected using meta-regression. A database of 22 articles published from 2000 to 2020 was identified, and 9 articles fitted the selection criteria and were integrated in the final database. Statistical analysis was performed to analyze the effect size for ADG, average daily feed intake (ADFI), and F:G ratio using a standardized means difference (SMD) at a 95% confidence interval. A meta-regression analysis was used to investigate the cause of heterogeneity,
	using the individual SMD for each study assessment as the outcome and the associated SE as the measure of variance. Dietary Bacillus spp. supplementation had no effect on ADFI (SMD: -0.052 , p = 0.138) and numerically increased ADG

Volumen	31
Número	3
ISSN	1230-1388
DOI	10.22358/jafs/149978/2022
Título del	Development of prediction equa
Artículo	growing New Zealand White rab
Autores e instituciones de adscripción	Arbez-Abnal, TA ^[1] ; Sangines-(Urquizo, E ^[1] ; Ángeles-Hernánde AJ ^[4]
	 Tecnol Nacl México, Div Estudios Posgrad & In Univ Autónoma Estado Hidalgo, Inst Ciencias A Univ Copenhagen, Fac Hlth & Med Sci, Dept Ve Univ Juárez Autónoma Tabasco, Div Acad Cien
Resumen	The objective of this study was to of growing New Zealand White (weight, meat and bone weights meat and bone tissues (neck, b were recorded. Total carcass tis weight - CMW, and carcass bone and regression analyses were bone and neck meat were correct CBW. In conclusion, cut weight provided good predictions for Zealand White rabbits.
Palabras claves	Carcass Performance, Commerc

Revista	JOURNAL OF BIOLOGICAL S
Volumen	30
Número	3
ISSN	ISSN: 0218-3390 eISSN: 1793-6470
DOI	10.1142/S0218339022500206
Título del Artículo	Dynamics of a mathematical mo
Autores e instituciones	Jiménez, MF ^[1] ; Blé, G ^[1] ; Falco
de adscripción	 UJAT, Div Acad Ciencias Básicas, Km 1 Carret Univ Nacl Autónoma México, Fac Ciencias, Dep
Resumen	In this work, the impact of a biol of a plant-parasite model is and spp. relationship is mutualistic, t of predator-prey, and the paras and for species coexistence are
Palabras claves	Global Dynamics, Prey-Predator

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(SMD: 0.113, p = 0.081) and reduced the F:G ratio SMD: -0.127, p < 0.001). Metaregression outcomes suggested that the number of animals per group was an essential component promoting heterogeneity in ADG. Overall, the inclusion of Bacillus spp. (median 486 mg/d) in growing-finishing pigs can increase ADG and

In-feed, Antibioticsgrowth-Performance, Nutrient Digestibility

JOURNAL OF ANIMAL AND FEED SCIENCES

ations to estimate carcass tissue composition in bbits by shoulder and neck dissection

García, JR^[1]; Pineiro-Vázquez, AT^[1]; Aguilarlez, JC [^{2]}; Vargas-Bello-Pérez, E [^{3]}; Chay-Čanul,

nvest, Inst Tecnol Conkal, Conkal 97345, Yucatán, México Agr, Tulancingo De Bravo 43600, Hidalgo, México /et & Anim Sci, Gronnegardsvej 3, DK-1870 Frederiksberg C, Denmark ncias Agr, Villahermosa 86280, Tabasco, México

to determine the tissue composition of the carcass e rabbits based on the shoulder and neck traits ts). Live weight and characteristics of dissected breast, rib, loin, shoulder, and leg) of 80 rabbits issue weights (carcass fat weight, carcass meat ne weight - CBW) were calculated and correlation implemented. Shoulder, neck, shoulder meat, related (P < 0.0001 and < 0.001) with CMW and its and tissue content of the shoulder and neck total meat and bone weights of growing New

rcial Cuts, Dissection

YSTEMS

odel for interaction plant-parasite-trichoderma

oni. M ^[2]

etera Cunduacán Jalpa Mandez, Cunduacán 86690, Tabasco, México ept Matemat, México City 04510, DF, México

plogical agent (Trichoderma spp.) on the dynamic alyzed. It is assumed that the plant-Trichoderma the Trichoderma spp.-parasite relationship is that site is specialist. Conditions for pest eradication shown.

or, Mutualistic Relationship

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Revista	INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS
Volumen	32
Número	2230024
ISSN	ISSN: 0218-1274 eISSN: 1793-6551
DOI	10.1142/S0218127422300245
Título del Artículo	Complex Dynamics on a Discrete Tritrophic Model of Leslie Type with General Functional Responses
Autores e instituciones de adscripción	 Blé, G [¹]; De la-Rosa, MA ^[2] [1] UJAT, Div Acad Ciencias Básicas, Km 1, Carretera CunduCONACyT UJAT, Div Acad Ciencias Básicas, Km 1, Carretera Cunduacán Jalpa de Méndez, Cunduacán 86690, Tabasco, México [2] CONACyT UJAT, Div Acad Ciencias Básicas, Km 1, Carretera Cunduacán Jalpa de Méndez, Cunduacán 86690, Tabasco, México
Resumen	In this paper, by averaging the growth rate on each state, we analyze the dynamics of a discrete dynamical system coming from a system of ODEs. This differential system corresponds to a tritrophic Leslie type model which is formed by three populations (prey (P), mesopredator (MP) and superpredator (SP)), where the last two populations are generalist predators. We give sufficient conditions where the discrete model undergoes a Neimark-Sacker bifurcation at a coexistence point. This analysis is independent of the functional responses that govern the interactions. To illustrate our results, several applications are given, under the assumptions that the population P has logistic growth and that the relations MP-P and SP-MP are carried out through Holling type functional responses. From these applications, we conclude that there are sufficient conditions to guarantee that the three species coexist by means of a supercritical Neimark-Sacker bifurcation. Moreover, numerically we can detect that the discrete system exhibits a chaotic behavior.
Palabras claves	Predator-prey System, Chaos Control, Bifurcations

Revista	FRONTIERS IN IMMUNOLOGY
Volumen	13
Número	n/a
ISSN	1664-3224
DOI	10.3389/fimmu.2022.943563
Título del	Clinical and immunological features associated to the development of a sustained
Artículo	immune humoral response in COVID-19 patients: Results from a cohort study
Autores e instituciones de adscripción	Torres-Ruiz, J ^[1] ; Lomelin-Gascon, J ^[2] ; Vargas-Castro, AS ^[1] ; Lira-Luna, J ^[1,3] ; Pérez-Fragoso, A ^[1,4] ; Tapia-Conyer, R ^[2,5] ; Núñez-Aguirre, M ^[1,4] ; Alcala-Carmona, B ^[1,4] ; Absalon-Aguilar, A ^[1,6] ; Maravillas-Montero, JL ^[7,8]
	[1] Inst Nacl Ciencias Med & Nutr Salvador Zubiran, Dept Immunol & Rheumatol, México City, DF, México
	[2] Carlos Slim Fdn, Operat Solut, México City, DF, México
	[3] Inst Politecn Nacl IPN, Escuela Super Med, Secc Estudios Posgrad & Invest, México City, DF, México
	[4] Inst Politecn Nacl, Escuela Nacl Ciencias Biol, Ciencias Quimicobiol, Lab Inmunoquim 1, México City, DF, México
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	[10] Hipodromo Amer, Temporary COVID 19 Hosp, México City, DF, México
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	[12] Univ Guadalajara, Ctr Univ Ciencias Salud CUCS, Guadalajara, Jalisco, México
Resumen	BackgroundUntil now, most of the research addressing long-term humoral
Resumen	responses in coronavirus disease 2019 (COVID-19) had only evaluated the serum titers of anti-severe acute respiratory syndrome coronavirus 2 (SARS-

profile, which is the aim of this and sustained antibody respon 19. When the patients sought drawn to perform immunophe patients were assessed 15 da third month, followed by a last anti-SARS-COV-2 IgG at all chemokines, anti-cellular (AC) also assessed during the follo presence of a sustained immu CoV-2 IgG titer >4.99 arbitrary used generalized lineal mode outcome and to assess the effect throughout time on the develo ResultsAt baseline the featur response were the diagnosis of serum IP-10, IL-4, IL-2, regu antibodies. Critical illness and the a sustained humoral immune serum IL-13 were the expla- sustained immune humoral re- which is characterized by abnormalities in the T cell chemokines during acute infect		
SARS-CoV-2 Humoral Respo	Resumen	CoV-2) IgGs, without the assess profile, which is the aim of this st and sustained antibody response 19. When the patients sought n drawn to perform immunopher patients were assessed 15 day third month, followed by a last v anti-SARS-COV-2 IgG at all ti chemokines, anti-cellular (AC) a also assessed during the follow presence of a sustained immur CoV-2 IgG titer >4.99 arbitrary u used generalized lineal model outcome and to assess the effect throughout time on the develop ResultsAt baseline the feature response were the diagnosis of serum IP-10, IL-4, IL-2, regula antibodies. Critical illness and th a sustained humoral immune re- serum IL-13 were the explan- sustained immune humoral res- which is characterized by the abnormalities in the T cell chemokines during acute infection
		SARS-CoV-2, Humoral Respons

Revista	JOURNAL OF SOL-GEL SCIEN
Volumen	104
Número	1
ISSN	ISSN: 0928-0707 eISSN: 1573-4846
DOI	10.1007/s10971-022-05922-w
Título del Artículo	Antiproliferative effect of 1,1 nanoparticles in SiHa cervix can
Autores e instituciones	Ramón, LA ^[1] ; Hernández, END ^[3] ; Mendoza, CG ^[1] ; Mendoza, G
de adscripción	[1] Univ Juárez Autónoma Tabasco, Lab Nanotecr Col Esmeralda, Cunduacán 86690, México
	[2] Univ Juárez Autónoma Tabasco, Lab Epigenet 4a Secc, Comalcalco 86630, México
	[3] Ctr Invest & Estudios Avanzados IPN Unidad M
	[4] Univ Autónoma Metropolitana Iztapalapa, ECC
	Ciudad De México 09310, México
Resumen	During the last decade, nanosize as antiproliferative agents in son the surface modification of ZnO antiproliferative agent against nanoparticles were prepared precipitation (P). By using sulfa Phenanthroline (Phen) was achi showed hexagonal tube-shaped precipitation method promoted
	precipitation method promote

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sment of the baseline antiviral clinical and immune study and may be the key factor leading to a broad se. MethodsWe included 103 patients with COVIDmedical attention (baseline), a blood sample was enotype of lymphocytes by flow cytometry. The ys after baseline and then every month until the visit 6 months after recruitment. We evaluated the time points, and the serum levels of cytokines, antibodies and neutrophil extracellular traps were w-up. The primary outcome of the study was the ne humoral response, defined as an anti-SARSunits/mL in at least two consecutive measures. We els to assess the features associated with this ct of the changes in the cytokines and chemokines oment of a sustained humoral immune response. es associated to a sustained immune humoral critical disease, absolute number of lymphocytes, latory T cells, CD8(+) T cells, and positive AC he positivity of AC antibodies were associated with esponse after 3 months, whilst critical illness and natory variables after 6 months. ConclusionA sponse is strongly related to critical COVID-19, the presence of AC antibodies, quantitative compartment, and the serum cytokines and tion and throughout time.

nse, COVID-19

NCE AND TECHNOLOGY 10-Phenanthroline coupled to sulfated ZnO ncer cell line ^[2]; González, RL ^[1]; Landero, MFH ^[2]; Owen, PQ GM ^[1,4]; Lemus, MAA ^[1] cnol, Div Academ Ingn & Arquitectura, Km 1 Carr Cunduacán Jalpa Méndez t & Biol Mol Canc, Div Academ Multidisciplinaria Comalcalco, Rancheria Sur Mérida, Dept Fis Aplicada, AP 73 Cordemex, Mérida 97310, México COCATAL, Dept Quim, Av Ferrocarril San Rafael Atlixco, 186, Col Leyes R, ed zinc oxide (ZnO) particles have been explored me cancer cell lines. In this research we propose with sulfate groups and 1,10-Phenanthroline as SiHa cervical cancer cell line. The ZnO by two different methods: sol-gel (SG) and ate as surface modifier, the anchoring of 1,10nieved by wet impregnation. The sol-gel samples

d the formation of sphere-like particles with

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Resumen	diameters ranging from 20 to 80 nm. The assessment of zeta potential and hydrodynamic size showed the variations due to the surface modifications exhibiting values ranging from -9.9 to -12.4 mV when dispersed in DMEM medium. The in vitro assays revealed the synergistic effect of the modified nanoparticles, which promoted apoptosis and inhibited 65% of cell proliferation in SiHa cell line.
Palabras claves	Zinc-Oxide Nanoparticles, Silica Nanoparticles, Cytotoxicity

Revista	BUILDINGS
Volumen	12
Número	8
ISSN	2075-5309
DOI	10.3390/buildings12081155
Título del	Analysis of Energy and Environmental Indicators for Sustainable Operation of
Artículo	Mexican Hotels in Tropical Climate Aided by Artificial Intelligence
Autores e instituciones de adscripción	Torres, SGM ^[1] ; Tzuc, OM ^[1] ; Aguilar-Castro, KM ^[2] ; Tellez, MC ^[1] ; Sierra, JO ^[1] ; Cruz, ADCY ^[1] ; Barrera-Lao, FJ ^[1] [1] Univ Autónoma Campeche, Fac Ingn, Campus 5, Av Humberto Lanz, San Francisco Campeche 24085, Campeche, México [2] Univ Juárez Autónoma Tabasco, Div Acad Ingn & Arquitectura, Unidad Chontalpa, Cunduacán Jalpa Méndez Km 1, Cunduacán 86690, Tabasco, México
Resumen	This study assessed the energy-use index and carbon-footprint performance of nine medium-category Mexican hotels (two-four stars) located in tropical-climate regions. The consumption of electrical and thermal energies of each hotel was collected during audits. Based on this, various scenarios of the partial replacement of the most energy-consuming devices were evaluated and synthesized in an expert model based on artificial neural networks. The artificial-intelligence model was designed to simultaneously associate the energy-consumption indicators, environmental impact, and economic savings of hotels based on their category, location, room number, number of existing electrical or thermal devices, and their percentage of substitution with more energy-efficient technologies. The model was used to compare the various partial-technology-substitution alternatives in each hotel that could reduce energy consumption and CO ₂ emissions based on the current values reported by the energy-use and environmental-impact indicators, it was possible to identify configurations that could reduce the hotels' energy use per room-year by 9-12%. In the environmental mitigation. The proposed methodology represents an attractive option to facilitate the analyses and the decision making of administrators according to the needs of the type of hotel to improve its performance, which also affects the reduction in operating costs.
Palabras claves	Performance, Consumption, Efficiency

Revista	BRAZILIAN JOURNAL OF PSYCHIATRY
Volumen	44
Número	2
ISSN	ISSN: 1516-4446 eISSN: 1809-452X
DOI	10.1590/1516-4446-2020-1546
Título del Artículo	Association of FAAH p. Pro129Thr and COMT p. Ala72Ser with schizophrenia and comorbid substance use through next-generation sequencing: an exploratory analysis

Autores e instituciones de adscripción	Martínez-Magaña, JJ ^[1,2] ; Genis-Mendoza, AD ^[2,3] ; González-Covarrubias, V ^[4] ; Juárez-Rojop, IE ^[1] ; Tovilla-Zárate, CA ^[5] ; Soberon, X ^[4] ; Lanzagorta, N ^[6] ; Nicolini, H ^[1,6] [1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Salud, Villahermosa, Tabasco, México [2] Inst Nacl Med Genom, Lab Genom Enfermedades Psiquiatr & Neurodegenerat, Perifer Sur 4809, Ciudad De México 14610, México [3] Hosp Psiquiatr Infantil Juan N Navarro, Serv Atenc Psiquiatr, Ciudad De México, México [4] Inst Nacl Med Genom, Lab Farmacogenom, Ciudad De México, México [5] Univ Juárez Autónoma Tabasco, Div Multidisciplinaria Comalcalco, Comalcalco, México [6] Grp Estudios Med & Familiares Carracci, Ciudad De México, México
Resumen	Objective: Individuals with schizophrenia and substance use disorders have a poor prognosis and increased psychiatric symptoms. The present study aimed to explore the association of 106 genes in individuals with schizophrenia and comorbid substance use through a next-generation sequencing (NGS) analysis and different in silico algorithms. Methods: We included 105 individuals diagnosed with schizophrenia and a family history of schizophrenia, of whom 49 (46.67%) presented comorbid substance use. Using NGS, we sequenced 106 genes previously associated with schizophrenia. Logistic regression models were used to assess differences in allele frequencies, and a generalized gene-set analysis was performed at the gene level. Functional annotations were performed using different algorithms and databases. Results: We identified a total of 3,109 variants, of which 25 were associated with schizophrenia and comorbid substance use and were located in regulatory and coding regions. We found low-frequency variants in COMT p.Ala72Ser, independently of p.Val158Met, that were associated with substance use. The endocannabinoid functional variant FAAH p.Pro129Thr was also associated with substance use in schizophrenia. Nevertheless, more studies with larger sample sizes are needed to confirm our findings.
Palabras claves	Psychiatric-Disorders, Missing Heritability, Alcohol Dependence

Revista	ITALIAN JOURNAL OF ANIMA
Volumen	21
Número	1
ISSN	ISSN: 1594-4077 eISSN: 1828-051X
DOI	10.1080/1828051X.2021.20027
Título del Artículo	Using the 9th-11th rib section to sheep
Autores e instituciones de adscripción	Escalante-Clemente, S ^[1] ; Vázc Álvarez, DN ^[2] ; Arbez-Abnal, TA ^[3] ; Vargas-Bello-Pérez, E ^[4] ; Cha ^[3] ; Vargas-Bello-Pérez, E ^[4] ; Cha ^[1] Univ Juárez Autónoma Tabasco, Colonia Ctr Villahermosa 86040, Tabasco, México [2] Tecnol Nacl México IT Conkal, Km 16-3 Antigua [3] Univ Autónoma Estado Hidalgo, Inst Ciencias A
Decumen	[4] Univ Copenhagen, Fac Hith & Med Sci, Dept Vo The study aimed at developing
Resumen	composition in Blackbelly sheep accuracy and precision. Twenty i (BW) of 29±3 kg were slaug components were recorded. Th dissected to record weights of f

AL SCIENCE 731 o predict carcase tissue composition in Blackbelly zquez-Jiménez, S^[1]; López-Duran, SK^[1]; Arcos-[A^[2]; Pineiro-Vázquez, AT^[2]; Muñoz-Benítez, AL hay-Canul, AJ^[1] Tabasco, Div Academ Ciencias Agr, Km 25 Carretera Villahermosa Teapa, ua Carretera Mérida Motul, Conkal, México Agr, Av Univ Km 1, Tulancingo De Bravo, Hidalgo, México Vet & Anim Sci, DK-1870 Frederiksberg C, Denmark predictive equations to estimate carcase tissue o using the 9th–11th rib section and to evaluate its male growing Blackbelly sheep with a bodyweight ghtered. Data from carcase and non-carcase hereafter, the left half carcase was weighed and fat (CF), muscle (CM), and bone (CB). Also, the

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Resumen	9th–11th section was dissected for muscle, fat and bone (MRib, FRib, BRib, respectively). The MRib and FRib were moderate to highly correlated ($p < .001$) with CM and the r values ranged from 0.47 to 0.82, while the FRib and the CF were positive correlated ($r = 0.68$, $p < .001$). Also the left half carcase weight (LHCW) was positively correlated ($p < .001$) with carcase tissues and the r values ranged from 0.57 for CF to 0.93 CM. Regression equations developed for predicting CM, CF and CB in Blackbelly sheep using the 9th–11th rib section had an r^2 that ranged from 0.61 to 0.90. Predictions had moderate to high precision ($r^2 > 0.59 \le$ and ≤ 0.92). All equations had high accuracy (> 0.96), moderate to high reproducibility index and concordance (CCC > 0.74 and ≤ 0.96) and moderate to high efficiency of prediction (from 0.58 to 0.91). Overall, results showed that the 9th–11th rib section could accurately be used as an option for predicting carcase tissue composition in Blackbelly sheep.
Palabras claves	Carcase Characteristics, Ovine Carcases, Wholesale Cuts

Revista	ITALIAN JOURNAL OF ANIMAL SCIENCE
Volumen	21
Número	1
ISSN	ISSN:1594-4077
501	elSSN:1828-051X
DOI	10.1080/1828051X.2021.2018363
Título del Artículo	Prediction of carcase characteristics using neck traits from hair-sheep ewes
Autores e instituciones de adscripción	Rivera-Alegria, FD ^[1] ; Rios-Rincon, FG ^[2] ; Macías-Cruz, U ^[3] ; García-Herrera, RA ^[1] ; Herrera-Camacho, J ^[4] ; Benaouda, M ^[5] ; Ángeles-Hernández, JC ^[6] ; Munoz- Benítez, AL ^[6] ; Vargas-Bello-Pérez, E ^[7] ; Chay-Canul, AJ ^[1] ^[1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Agr, Villahermosa, Tabasco, México ^[2] Univ Autónoma Sinaloa, Fac Med Vet & Zootecnia, Culiacan, Sinaloa, México
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Resumen	The objective of this study was to develop predictive equations for carcase composition using neck tissue composition as predictors in multiparous Pelibuey ewes (n =50, body weight = 39 ± 7 kg and body condition score = 2.56 ± 0.98 points) were used to develop predictive equations for carcase tissue composition and weight from neck composition traits applying multiple linear regression. The accuracy of the model was evaluated considering the values of determination coefficient (r^2) and root mean square error (RMSE). Carcase and neck traits showed a positive relationship (p < 0.1) and the correlation coefficient (r) ranged from 0.44 to 0.78, being stronger for hot (HCW) and cold (CCW) carcase weights with neck traits. Except for neck bone weight, all neck traits resulted to be suitable predictor variables (p < .0001) for carcase muscle (MW) and fat (FW) weight as r^2 values ranged from 0.63 to 0.74. In the equation for carcase bone weight, only neck muscle weight was a predictor. However, r^2 value was low (r^2 = 0.29; p < .0001). Overall, results suggest that carcase and neck traits showed a positive relationship. The weight of the neck and its content of muscle and fat could be used to predict the composition of the carcase tissue in non-pregnant and non-lactating multiparous Pelibuey ewes.
Palabras claves	Carcase Characteristics, Ovine Carcases, Tissue Composition

Revista	FISHES
Volumen	7
Número	1
ISSN	2410-3888
DOI	10.3390/fishes7010016
Título del Artículo	Larval Development in Tropical C Embryonic Thermal Regime: Ec Context
Autores e instituciones de adscripción	De la Cruz, SCE ^[1] ; Riesco, MF Martínez-Burguete, T ^[1] ; Peña Fernández, I ^[4]
	 Univ Juárez Autónoma Tabasco, Div Acad Cienci Univ Leon, Mol Biol Dept, Cell Biol Area, Campus Univ North Texas, Dept Biol Sci, Dev Integrat Biol Ctr Oceanog Vigo, Inst Espanol Oceanog IEO CS Catedra CONACYT UJAT, Villahermosa 86040, T
Resumen	In ectotherm species, enviror development, growth, and surviv fish populations is of utmost impo- change over fisheries and aqua security in the coming years. He regimes (24, 28 and 32°C; TR2 applied during embryogenesis in explored to decipher the potentia fertilization to 16 days post-f development and body morpholog incubation at higher temperatures A higher hatching rate was obtain to those at 24°C. No differences we ranging from 84.89 to 88.86%, but were found in larvae from TR2 embryogenesis also altered the re Larvae from the TR32 group sho higher development of cartilagino when compared with the TR24 as keletal development seemed to biometric measures, a principal development, larvae from each the each population remaining clearly shows how changes in temperaturations alterations in fish during early stage effects of global warming in e- implications
Palabras claves	Temperature Skeletal Developme

Revista	SWARM AND EVOLUTIONARY
Volumen	69
Número	n/a
ISSN	ISSN: 2210-6502
	eISSN: 2210-6510
DOI	10.1016/j.swevo.2021.101006
Título del Artículo	Induction of decision trees as cla

Gar (Atractosteus tropicus) is dependent on the cological implications under a Climate Change

^[2]; Martínez-Bautista, G ^[3]; Calzada-Ruiz, D ^[1]; ia-Marín, ES ^[1,5]; Álvarez-González, CA ^[1];

cias Biol, Villahermosa 86040, Tabasco, México us Vegazana S-N, Leon 24071, Spair iol Res Grp, Dev Physiol Lab, Denton, TX 76203 USA CSIC, Vigo 36390, Spain Tabasco, México

nmental temperature plays a key role in val. Thus, determining how temperature affects portance to accurately predict the risk of climate aculture, critical to warrant nutrition and food Here, the potential effects of abnormal thermal 24, TR28, and TR32, respectively) exclusively n tropical gar (Atractosteus tropicus) has been ial consequences on hatching and growth from -fertilization (dpf), while effects on skeletal ogy were explored at fertilization and 16 dpf. Egg es induced an early hatching and mouth opening. ined in eggs incubated at 28°C when compared were found in fish survival at 16 dpf, with values ut increased wet body weight and standard length 24 and TR32 groups. Thermal regime during rate at which the skeletal development occurs. owed an advanced skeletal development, with a ous structures at hatching but reduced at 16 dpf and TR28 groups. Furthermore, this advanced determine the fish body morphology. Based on oal component analysis showed how along hermal regime were clustered together, but with ly separated from each other. The current study ture may induce craniofacial and morphological ges and contribute to understanding the possible early development of fish and its ecological

ent, Ossification

Y COMPUTATION

assification models through metaheuristics

Fuente de Artículos Científicos: https://jcr.clarivate.com

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Autores e instituciones de adscripción	Rivera-López, R ^[1] ; Canul-Reich, J ^[2] ; Mezura-Montes, E ^[3] ; Cruz-Chávez, MA ^[4] [1] Inst Tecnol Veracruz, Dept Sistemas & Computac, Tecnol Nacl México, MA Quevedo 2779, Col, Formando Hogar 91800, Veracruz, México [2] Univ Juárez Autónoma Tabasco, Div Acad Ciencias & Tecnol Informac, Km 1 Carretera Cunduacán Jalpa Méndez, Cunduacán 86690, TAB, México [3] Univ Veracruzana, Ctr Invest Inteligencia Artificial, Sebastian Camacho 5, Ctr, Xalapa 91000, Veracruz, México [4] Univ Autónoma, Ctr Invest Ingn & Ciencias Aplicadas, Col Chamilpa, Estado Morelos Av Univ 1001, Cuernavaca 62209, Morelos, México
Resumen	The induction of decision trees is a widely-used approach to build classification models that guarantee high performance and expressiveness. Since a recursive- partitioning strategy guided for some splitting criterion is commonly used to induce these classifiers, overfitting, attribute selection bias, and instability to small training set changes are well-known problems in them. Other approaches, such as incremental induction, classifier ensembles, and the global search in the decision-tree-space, have been implemented to overcome these problems. In particular, metaheuristics such as simulated annealing, genetic algorithms, genetic programming, and ant colony optimization have been used to induce compact and accurate decision trees. This paper presents a state-of-the-art review of the use of single-solution-based metaheuristics and swarm and evolutionary computation algorithms to build decision trees as classification models. We outline the decision-tree-induction process components and detail the existing literature studies on metaheuristic-based approaches to building these classifiers. Several timelines showing the chronological order in which these approaches were introduced in the literature are included. A summary analysis of these studies. This work provides a useful reference point for future research in this field.
Palabras claves	Machine learning, Single-solution-based metaheuristics, Evolutionary algorithms

Revista	WORLDS POULTRY SCIENCE JOURNAL
Volumen	78
Número	2
ISSN	ISSN: 0043-9339 eISSN: 1743-4777
DOI	10.1080/00439339.2022.2028217
Título del Artículo	Guajolote - A poultry genetic resource native to México
Autores e instituciones de adscripción	Portillo-Salgado, R ^[1] ; Haro, JGH ^[1] ; Bautista-Ortega, J ^[2] ; Chay-Canul, AJ ^[3] ; Vázquez, FAC ^[4]
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Resumen	The Guajolote is a native North American poultry, originally domesticated in México, from where it was exported to Europe, and from there to the rest of the world, becoming the genetic base of the breeds and varieties of turkeys that are known in the present. However, the phenotypic and productive characteristics of Guajolotes have been poorly studied, which has limited its racial recognition. This review describes the current knowledge on the historical distribution, morphological, morphometric and phaneroptic characteristics of Guajolote meat and eggs. Due to the long process of evolution, Guajolotes have a good capacity for

Resumen	adaptation and high rusticity environmental and managem peculiarities and great variabilit descriptors. This bird has a mark are excellent natural incubators of age, laying an average of 16 good capacity to convert food in 5499 +/- 148 to 5835 +/- 173 g a The nutritional quality of meat a chicken. In conclusion, Guajo biological and productive value required to maximize its genetic small and mid-size producers the
Palabras claves	Backyard Poultry Farming, Nativ

Revista	SENSORS
Volumen	22
Número	10
ISSN	1424-8220
DOI	10.3390/s22103655
Título del Artículo	Fuzzy System to Assess Danger
Autores e instituciones de adscripción	Ronquillo-Cana, CJ ^[1] ; Pancardo García-Constantino, M ^[2]
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Resumen	Dangerous driving can cause a assessment helps to identify the the appropriate decisions while driving through two approaches provide objective variables (acc responses to questionnaires fro variables (driving thoughts, opini we believe that a holistic and mo of both types of variables. There with a multidisciplinary (computer draws on the strengths of sensor to evaluate driver behavior an objective and subjective variate disciplines used (sensor reading respectively). The methods used their outputs feed a combined fur input variables, obtaining a pe obtained using the proposed sys and were validated with mobility can support intelligent transpo- selection.
Palabras	AHP, Dangerous Driving, Driver

that allows it to reproduce under different nent conditions. It has unique morphological ity in terms of its morphometric and phaneroptic ked sexual dimorphism in favor of males. Females s, they start laying from between 6 and 8 months 6.7 +/- 3.6 eggs per laying season. Males have a into meat and can reach a live weight of between at week 30 of age, having a carcass yield of 79%. and eggs of Guajolote is even higher than that of olotes are poultry with characteristics of high le; however, better management strategies are ic potential for the benefit of the food security of hat depend on this poultry genetic resource.

ive Guajolote, Poultry Genetic Resource

erous Driving: A Multidisciplinary Approach

do, P^[1]; Silva, M^[1]; Hernández-Nolasco, JA^[1];

nformat Sci & Technol, Cunduacán 86690, Tabasco, México B, North Ireland

accidents, injuries and loss of life. An efficient absence or degree of dangerous driving to take le driving. Previous studies assess dangerous es: (i) using electronic devices or sensors that celeration, turns and speed), and (ii) analyzing rom behavioral science that provide subjective nions and perceptions from the driver). However, nore realistic assessment requires a combination refore, we propose a three-phase fuzzy system er science and behavioral sciences) approach that rs embedded in smartphones and questionnaires nd social desirability. Our proposal combines ables while mitigating the weaknesses of the ng errors and lack of honesty from respondents, ed are of proven reliability in each discipline, and uzzy system used to handle the vagueness of the ersonalized result for each driver. The results stem in a real scenario were efficient at 84.21%, y experts' opinions. The presented fuzzy system ortation systems, driving safety, or personnel

^r Behavior

Enero 2024

Fuente de Artículos Científicos: https://jcr.clarivate.com

Suplemento Especial

Universidad Juárez Autónoma de Tabasco

Gaceta Juchimán

Universidad Juárez Autónoma de Tabasco

Volumen 8 Número 1 ISSN 2309-608X DOI 10.3390/jof8010022 Título del Enzymatic Bioprospecting of Fungi Isolated from a Tropical Rainforest in México Autores e instituciones de adscripción Peraza-Jiménez, K ^[1] ; de la Rosa-García, S ^[1] ; Huijara-Vasconselos, JJ ^[2] ; Reyes-Estebanez, M ^[3] ; Gómez-Cornelio, S ^[4] [1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86150, Tabasco, México ^[2] [2] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86150, Tabasco, México ^[2] [3] Univ Autónoma Tabasco, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86150, Tabasco, México ^[2] [3] Univ Autónoma Campeche, Lab Microbiol Ambiental & Biolecnol, Campeche 24039, México ^[3] [4] Univ Politec Ctr. Ingn Biolecnol, Villahermosa 8220, Tabasco, México ^[3] [4] Univ Politec Ctr. Ingn Biolecnol, Villahermosa 8220, Tabasco, México ^[3] [4] Univ Politec Ctr. Ingn Biolecnol, Villahermosa 8220, Tabasco, México ^[3] Resumen The humid tropical environment provides an ideal place for developing a high diversity of plants; this is why it is an interesting site for the enzymatic bioprospecting of fungi that are responsible for the recycling of organic matter in an efficient and accelerated way and whose enzymes could have multiple biotechnological applications. For this study, 1250 isolates of macroscopic and micro	Revista	JOURNAL OF FUNGI
ISSN 2309-608X DOI 10.3390/jof8010022 Titulo del Anticulo Autores e instituciones de adscripción Peraza-Jiménez, K ^[1] ; de la Rosa-García, S ^[1] ; Huijara-Vasconselos, JJ ^[2] ; Reyes-Estebanez, M ^[3] ; Gómez-Cornelio, S ^[4] I'll Univ Juérez Autónoma Tabaso, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86190, Tabasco, México ^[2] Univ Juérez Autónoma Tabaso, Div Acad Ciencias Agr, Villahermosa 86298, Tabasco, México ^[2] Univ Juérez Autónoma Tabaso, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86190, Tabasco, México ^[2] Univ Juérez Autónoma Tabaso, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86190, Tabasco, México ^[2] Univ Juérez Autónoma Tabaso, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86190, Tabasco, México ^[2] Univ Juérez Autónoma Tabaso, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86190, Tabasco, México ^[2] Univ Juérez Autónoma Tabaso, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86190, Tabasco, México ^[2] Univ Juérez Autónoma Tabaso, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86190, Tabasco, México ^[3] Univ Palite Cri, Ingn Biotecnol, Villahermosa 86290, Tabasco, México Resumen The humid tropical environment provides an ideal place for developing a high diversity of plants; this is why it is an interesting site for the enzymatic bioprospecting of fungi that are responsible for the recycling of organic matter in an efficient and accelerated way and whose enzymes could have multiple biotechnological applications. For this study, 1250 isolates of macroscopic and microscopic fungal morphotypes were collected from soil, leaf litter, and wood. One hundred and fifty strains (50 form each source) were sele	Volumen	8
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Título del ArtículoEnzymatic Bioprospecting of Fungi Isolated from a Tropical Rainforest in MéxicoAutores e instituciones de adscripciónPeraza-Jiménez, K ^[1] ; de la Rosa-García, S ^[1] ; Huijara-Vasconselos, JJ ^[2] ; Reyes-Estebanez, M ^[3] ; Gómez-Cornelio, S ^[4] (1) Univ Juárez Autónoma Tabasco, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86280, Tabasco, México [3] Univ Autónoma Tabasco, Div Acad Ciencias Agr, Villahermosa 86280, Tabasco, México [3] Univ Autónoma Campeche, Lab Microbiol Ambiental & Biotecnol, Campeche 24039, México [4] Univ Politec Ctr, Ingn Biotecnol, Villahermosa 86290, Tabasco, MéxicoResumenThe humid tropical environment provides an ideal place for developing a high diversity of plants; this is why it is an interesting site for the enzymatic bioprospecting of fungi that are responsible for the recycling of organic matter in an efficient and accelerated way and whose enzymes could have multiple biotechnological applications. For this study, 1250 isolates of macroscopic and microscopic fungal morphotypes were collected from soil, leaf litter, and wood. One hundred and fifty strains (50 from each source) were selected for the enzymatic screening. From the first phase, 51 strains with positive activity for laccase, protease, amylase, xylanase, and lipase enzymes were evaluated, of which 20 were isolated from leaf litter, 18 from the soil, and 13 from wood. The 10 best strains were selected for the enzymatic quantification, considering the potency index and the production of at least two enzymes. High laccase activity was detected for <i>Trametes villosa</i> FE35 and <i>Marasmus</i> sp. CE25 (1179 and 710.66 U/mg, respectively), while Daedalea flavida PE47 showed laccase (521.85 U/mg) and protease activities (80.66 U/mg). <i>Fusarium</i> spp. PH79 and FS400 strains had amylase (14.0 U/mg, 49.23 U/mg) and xy	ISSN	2309-608X
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Instituciones de adscripciónReyes-Estebanez, M [3]; Gómez-Cornelio, S [4](1) Univ Juárez Autónoma Tabasco, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86190, Tabasco, México [2] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Agr, Villahermosa 86298, Tabasco, México [3] Univ Autónoma Campeche, Lab Microbiol Ambiental & Biotecnol, Campeche 24039, México [4] Univ Politec Ctr, Ingn Biotecnol, Villahermosa 86290, Tabasco, MéxicoResumenThe humid tropical environment provides an ideal place for developing a high diversity of plants; this is why it is an interesting site for the enzymatic bioprospecting of fungi that are responsible for the recycling of organic matter in an efficient and accelerated way and whose enzymes could have multiple biotechnological applications. For this study, 1250 isolates of macroscopic and microscopic fungal morphotypes were collected from soil, leal litter, and wood. One hundred and fifty strains (50 from each source) were selected for the enzymatic screening. From the first phase, 51 strains with positive activity for laccase, protease, amylase, xylanase, and lipase enzymes were evaluated, of which 20 were isolated from leaf litter, 18 from the soil, and 13 from wood. The 10 best strains were selected for the enzymatic quantification, considering the potency index and the production of at least two enzymes. High laccase activity was detected for <i>Trametes villosa</i> FE35 and <i>Marasmius</i> sp. CE25 (1179 and 710.66 U/mg, respectively), while <i>Daedalea flavida</i> PE47 showed laccase (521.85 U/mg) and protease activities (80.66 U/mg). <i>Fusarium</i> spp. PH79 and FS400 strains had amylase (14.0 U/mg, 49.23 U/mg) and xylanase activities (40.05 U/mg, 36.03 U/mg) respectively. These results confirm the enzymatic potential of fungi that inhabit little-explored tropical rainforests with applications in industry.Pal		Enzymatic Bioprospecting of Fungi Isolated from a Tropical Rainforest in México
Id Univ Politec Ctr. Ingn Biotecnol, Villahermosa 86290, Tabasco, MéxicoResumenThe humid tropical environment provides an ideal place for developing a high diversity of plants; this is why it is an interesting site for the enzymatic bioprospecting of fungi that are responsible for the recycling of organic matter in an efficient and accelerated way and whose enzymes could have multiple biotechnological applications. For this study, 1250 isolates of macroscopic and microscopic fungal morphotypes were collected from soil, leaf litter, and wood. One hundred and fifty strains (50 from each source) were selected for the enzymatic screening. From the first phase, 51 strains with positive activity for laccase, protease, amylase, xylanase, and lipase enzymes were evaluated, of which 20 were isolated from leaf litter, 18 from the soil, and 13 from wood. The 10 best strains were selected for the enzymatic quantification, considering the potency index and the production of at least two enzymes. High laccase activity was detected for <i>Trametes villosa</i> FE35 and <i>Marasmius</i> sp. CE25 (1179 and 710.66 U/mg, respectively), while <i>Daedalea flavida</i> PE47 showed laccase (521.85 U/mg) and protease activities (80.66 U/mg). <i>Fusarium</i> spp. PH79 and FS400 strains had amylase (14.0 U/mg, 49.23 U/mg) and xylanase activities (40.05 U/mg, 36.03 U/mg) respectively. These results confirm the enzymatic potential of fungi that inhabit little-explored tropical rainforests with applications in industry.PalabrasHydrolases. Oxidoreductases. Enzyme Extracellular	instituciones	Reyes-Estebanez, M ^[3] ; Gómez-Cornelio, S ^[4] [1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Biol, Lab Microbiol Aplicada, Villahermosa 86150, Tabasco, México [2]
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Hydrolases ()xidoreductases Enzyme Extracellular	Resumen	diversity of plants; this is why it is an interesting site for the enzymatic bioprospecting of fungi that are responsible for the recycling of organic matter in an efficient and accelerated way and whose enzymes could have multiple biotechnological applications. For this study, 1250 isolates of macroscopic and microscopic fungal morphotypes were collected from soil, leaf litter, and wood. One hundred and fifty strains (50 from each source) were selected for the enzymatic screening. From the first phase, 51 strains with positive activity for laccase, protease, amylase, xylanase, and lipase enzymes were evaluated, of which 20 were isolated from leaf litter, 18 from the soil, and 13 from wood. The 10 best strains were selected for the enzymatic quantification, considering the potency index and the production of at least two enzymes. High laccase activity was detected for <i>Trametes villosa</i> FE35 and <i>Marasmius</i> sp. CE25 (1179 and 710.66 U/mg, respectively), while <i>Daedalea flavida</i> PE47 showed laccase (521.85 U/mg) and protease activities (80.66 U/mg). <i>Fusarium</i> spp. PH79 and FS400 strains had amylase (14.0 U/mg, 49.23 U/mg) and xylanase activities (40.05 U/mg, 36.03 U/mg) respectively. These results confirm the enzymatic potential of fungi that inhabit little-explored tropical rainforests with applications in
		Hydrolases, Oxidoreductases, Enzyme Extracellular
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Revista	NOTULAE BOTANICAE HORTI AGROBOTANICI CLUJ-NAPOCA
Volumen	50
Número	1
ISSN	ISSN: 0255-965X eISSN: 1842-4309
DOI	10.15835/nbha50112657
Título del Artículo	Copper oxide nanoparticles biosynthetized improve germination and bioactive compounds in wheat sprouts
Autores e instituciones de adscripción	Ortega-Ortiz, H ^[1] ; Gaucin-Delgado, JM ^[2] ; Preciado-Rángel, P ^[2] ; Fortis- Hernández, M ^[2] ; Hernández-Montiel, LG ^[3] ; De la Cruz-Lázaro, E ^[4] ; Lara- Capistran, L ^[5]
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	[2] Natl Technol Inst México, Torreon Technol Inst, Carretera Torreon San Pedro Km 7-5, Torreon 27170, Coahuila, México
	[3] Biol Res Ctr Northwest, Av Politecn Nacl 195, La Paz 23090, Baja California, México
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	[5] Veracruzana Univ, Gonzalo Aguirre Beltran Univ Circuit S-N, Xalapa, Veracruz, México
Resumen	Metal nanoparticles have many positive effects in improving crop production and productivity and allow for increased germination and rapid crop establishment under field conditions. The metallic nanoparticles applied in this study were

Resumen	copper oxide nanoparticles (Cu <i>X sinensis</i>) as a reducing agen sprouts. This study determined
	plumule length, as well as the p sprouts. The seeds were treate concentrations: 0, 0.5, 1, 2, 4 ar low doses of CuONPs (0.5 mg radicle length, in addition to compounds in wheat shoots. A h inhibitory effects due to Cu acc use of CuONPs for green synt effects in germination and seed metabolite production.
Palabras claves	Antioxidants, Biosynthesized, C

Revista	JOURNAL OF BIOENERGETIC
Volumen	54
Número ISSN	3 ISSN: 0145-479X
DOI	elSSN: 1573-6881 10.1007/s10863-022-09937-4
Título del Artículo	Chronic exposition to ozone overexpression of either mitocl related proteins
Autores e instituciones de adscripción	Gómez-Crisostomo, NP ^[1] ; Rivas Cruz-Hernández, EN ^[1] ; Álvare Valdés-Fuentes, M ^[2] ; Martínez- [1] Univ Juárez Autónoma Tabasco, Div Acad Mu Cuarta Secc, Comalcalco 86650, Tabasco, México [2] Univ Nacl Autónoma México, Fac Med, Dept Fis [3] Inst Neurol & Neurocirugia, Dept Patol, Ciudad
Resumen	Pollution is considered a risk f mechanisms to explain this relat the most abundant and studied a effect of chronic exposition of ra stress, apoptosis, mitochondrial rats were daily exposed to low h/day. Hearts were dissected, ar was evaluated by TBARS and dismutase 1 (SOD1) and Catalat 3, caspase 9, Bax, Bcl-2, and Fis1, Drp1, OPA1, and Mfn1 we hypertrophy indicator alpha-acti oxidative stress markers, how expression decreased, whereas Bcl-2. Mitochondrial fission may of Drp1 but not changes in fusio molecular marker for cardiac h days of ozone exposition. The c effect on cardiac mitochondria relation to exposure time, as associated with altered mitochor
Palabras claves	Oxidative Stress, Pollution, Car

uONPs) biosynthesized using orange peel (Citrus nt to avoid or reduce toxicity in wheat seeds and the effect of CuONPs on germination, radicle and production of phytochemical compounds in wheat ed with suspensions of CuONPs at the following and 6 mg mL⁻¹. The results indicate that the use of mL⁻¹), improved germination, vigor, plumule and increasing the biosynthesis of phytochemical high concentration of CuONPs (6 mg mL⁻¹) causes cumulation and phytotoxicity in plant tissue. The thesis is a viable alternative to obtain beneficial edling development, as well as greater secondary

Cuonps

CS AND BIOMEMBRANES

induces cardiac antioxidant response and chondrial fision protein DRP1 and hipertrophyc-

as-Arancibia, S^[2]; Rodríguez-Martínez, E^[2]; De la rez, CDM^[1]; Caraveo, PAE^[1]; Herrera, NG^[3]; -Abundis, E^[1]

ultidisciplinaria Comalcalco, Lab Invest Enfermedades Metab & Infecciosas,

isiol, Circuito Externo S-N, Cd Univ, Ciudad De México 04510, Cdmx, México d De México, México

factor for cardiovascular disease; however, the ationship are not well understood; ozone is one of air contaminants. Our study aimed to evaluate the rats to controlled low doses of ozone on oxidative dynamics, and cardiac hypertrophy. Male Wistar ozone doses during 7, 15, 30, and 60 days, 4 and homogenates were prepared. Oxidative stress protein nitrosylation in addition to Superoxide ase levels; the apoptosis related-proteins caspase the mitochondrial dynamic-associated proteins ere quantified by western blot among the cardiac tin (cardiac actin). There were no changes in the vever SOD1 expression increases. Caspase 3 s caspase 9 increased without changes in Bax or be favored according to the increased expression ion-related proteins OPA1 and Mfn1. Finally, the hypertrophy was overexpressed after 30 and 60 chronic exposition to ozone induces a deleterious a. Antioxidant defenses also show changes in well as an apparent pro-hypertrophic effect ondrial dynamics.

rdiac Hypertrophy

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Fuente de Artículos Científicos: https://jcr.clarivate.com

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Fuente de Artículos Científicos: https://jcr.clarivate.com

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Revista	ENERGY
Volumen	246
Número	n/a
ISSN	ISSN: 0360-5442 eISSN: 1873-6785
DOI	10.1016/j.energy.2022.123412
Título del Artículo	Annual thermal evaluation of a ventilated roof under warm weather conditions of México
Autores e instituciones de adscripción	Lima-Tellez, T ^[1] ; Chavez, Y ^[2] ; Hernández-López, I ^[1] ; Xaman, J ^[2] ; Hernández- Pérez, I ^[3]
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Resumen	An annual thermal evaluation of a ventilated roof (<i>VR</i>) for energy-saving purposes in two Mexican cities with warm weather is presented. It was developed a numerical code based on the global energy balance method to predict the thermal behavior of the <i>VR</i> . The code was verified, and it showed a good agreement with data reported in the literature. Weather data of the coldest and warmest days of each month for the two cities were provided to the numerical code as boundary conditions to perform the simulations. Thus, to quantify the benefits of using the <i>VR</i> , it was compared with a conventional roof (<i>CR</i>). The results showed that the implementation of <i>VR</i> significantly reduces the annual total heat gain by up to 50 and 60% for the climates <i>BWh</i> and <i>Aw</i> , respectively. In addition, it was found that for both climates the payback period of <i>VR</i> is smaller than a year and a half. In this way, <i>VR</i> is a passive technology with high potential to reduce the energy consumption for thermal comfort in buildings at a relatively low cost.
Palabras claves	Double Skin Roof, Ventilated Roof, Energy Saving

Revista	NANOMATERIALS
Volumen	12
Número	12
ISSN	2079-4991
DOI	10.3390/nano12122017
Título del Artículo	γ-Valerolactone Production from Levulinic Acid Hydrogenation Using Ni Supported Nanoparticles: Influence of Tungsten Loading and pH of Synthesis
Autores e instituciones de adscripción	Córdova-Pérez, GE ^[1] ; Cortéz-Elizalde, J ^[1] ; Silahua-Pavón, AA ^[1] ; Cervantes- Uribe, A ^[1] ; Arévalo-Pérez, JC ^[1] ; Cordero-García, A ^[1] ; de los Monteros, AEE ^[1] ; Espinosa-González, CG ^[2] ; Godavarthi, S ^[2] ; Ortiz-Chi, F ^[2] ; Guerra-Qué, Z ^[3] ; Torres-Torres, JG ^[1]
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Resumen	Gamma-Valerolactone (GVL) has been considered an alternative as biofuel in the production of carbon-based chemicals; however, the use of noble metals and corrosive solvents has been a problem. In this work, Ni supported nanocatalysts were prepared to produce gamma-Valerolactone from levulinic acid using

Resumen	methanol as solvent at a tempe Supports were modified at pH ammonium hydroxide (NH ₄ OH) 5%) by the Sol-gel method. Ni method. The catalysts were cha N-2 physisorption, UV-Vis, SEM on the study of acidity and acti sites contributed by W at pH 9, µ and could be responsible for the to Methyl levulinate being more by-products were analyzed by H with 5% W at pH 9, with 80% activity was attributed to the p generated by modifying the pH due to the spillover effect.
Palabras claves	Hydrogenation, Levulinic Acid,

Revista	BRAIN SCIENCES
Volumen	12
Número	5
ISSN	2076-3425
DOI	10.3390/brainsci12050576
Título del	Weak Hand Grip Strength Is A
Artículo	Mexican Population
Autores e instituciones de adscripción	Genis-Mendoza, AD ^[1] ; Fresan, Tovilla-Zárate, CA ^[5] ; Castillo-Áv ML ^[7] ; Nicolini, H ^[1]
	 Inst Nacl Med Genom, Lab Genom Enfermedad Inst Nacl Psiquiatria Ramon Fuente Muniz, Sub Univ Juárez Autónoma Tabasco, Div Academ M Hosp Gen Comalcalco Dr Desiderio G Rosado Univ Juárez Autónoma Tabasco, Div Academ M Univ Juárez Autónoma Tabasco, Div Academ M Univ Juárez Autónoma Tabasco, Div Academ M Hosp Chiapas Nos Dr Gilberto Gómez Maza, S
Resumen	Hand grip strength has been copsychiatric disease. To date, association between alexithymi present study was to investigation strength and alexithymia. A cross Tabasco, México. A total of 246 is evaluated in the dominant hand Alexithymia was measured using linear regression models adjust association between alexithymia alexithymia was 39.0% (n = 94) hand grip strength than the conditional grip strength that the conditional grip strength regression alexithymia had ($\beta = -0.39 \pm 0.14$; $p = 0.006$); a decreased hand grip strength regression measurement identification of alexithymia in M
Palabras claves	Alexithymia, Hand Grip Strength

perature of 170 degrees C utilizing 4 MPa of H-2. 3 using acetic acid (CH₃COOH) and pH 9 using with different tungsten (W) loadings (1%, 3%, and i was deposited by the suspension impregnation aracterized by various techniques including XRD, M, TEM, XPS, H-2-TPR, and Pyridine FTIR. Based tivity relation, Ni dispersion due to the Lewis acid producing nanoparticles smaller than 10 nm of Ni, he high esterification activity of levulinic acid (LA) selective to catalytic hydrogenation. Products and H-1 NMR. Optimum catalytic activity was obtained yield after 24 h of reaction. The higher catalytic particle size and the amount of Lewis acid sites l of synthesis and the amount of W in the support

Y-Valerolactone

Associated with Alexithymia in Outpatients in a

A^[2]; González-Castro, TB^[3]; Pool-García, S^[4]; vila, RG^[6]; Arias-Vázquez, PI^[5]; López-Narváez,

ades Psiquiatr & Neurodegenerat, Ciudad De México 14610, México bdirecc Invest Clin, Ciudad De México 14370, México Multidisciplinaria Jalpa de Méndez, Jalpa De Méndez 86205, México Carbaia, Secretaría Salud, Comalcalco 86300, México Multidisciplinaria Comalcalco, Comalcalco 86300, México Ciencias Salud Villahermosa 86100 Tabasco México Secretaría Salud Chiapas, Tuxtla Gutiérrez 29045, México

onsidered as a possible marker for metabolic and however, no research has focused on the nia and hand grip strength. The objective of the ate the correct association between hand grip ss-sectional study was carried out in Comalcalco, individuals were included. Hand grip strength was nd using a Takei[®] portable digital dynamometer. ng the Toronto Alexithymia Scale (TAS-20). Two sted by confounders were used to determine the ia and hand grip strength. The rate for positive 4). Individuals with alexithymia showed a weaker comparison group (t = 2.4, 244 df, p = 0.01). significantly reduced levels of hand grip strength after additional adjustment for clinical variables, emained (β = 8.00 ± 1.86; *p* ≤ 0.001). Our results hand grip strength could be associated with t could be useful as a predictive marker for the lexican individuals who attend outpatient clinics.

th, Weak Hand Grip Strength

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Revista	ANIMALS
Volumen	12
Número	5
ISSN	2076-2615
DOI	10.3390/ani12050605
Título del	Using Post-Mortem Measurements to Predict Carcass Tissue Composition in
Artículo	Growing Rabbits
Autores e instituciones de adscripción	Croda-Andrade, AY ^[1] ; Valencia-García, CG ^[1] ; Arbez-Abnal, TA ^[2] ; Portillo- Salgado, R ^[1] ; Estrada-León, RJ (Estrada-Leon, Raciel J.) ^[3] ; Vázquez-Martínez, I ^[4] ; Camacho-Pérez, E ^[5] ; Vargas-Bello-Pérez, E ^[6] ; Chay-Canul, AJ ^[1] [1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Agr, Villahermosa 86280, Tabasco, México [2] Inst Tecnol Conkal, Tecnol Nacl México, Conkal 97345, México [3] Inst Tecnol Super Calkini, CA Bioproc, Tecnol Nacl México, Calkini 24900, México [4] Benemerita Univ Autónoma Puebla, Programa Ingn Agroforestal, Complejo Reg Norte, Tetela De Ocampo 73640, México [5] Inst Tecnol Super Progreso, Inst Tecnol Nacl México, Progreso 97320, México [6] Univ Copenhagen, Dept Vet & Anim Sci, Fac Hith & Med Sci, DK-1870 Frederiksberg C, Denmark
Resumen	The objective of this study was to determine post-mortem measurements for predicting carcass traits in growing rabbits. A total of 50 clinically healthy New Zealand White × Californian male rabbits with a body weight (BW) of 1351 ± 347 g between 60 to 80 days of age were used. Body weight was recorded 12 h before slaughtering. Data recorded at slaughtering included carcass weights (HCW). After cooling at 4 °C for 24 h, carcasses were weighed (CCW) and then were carefully split longitudinally with a band saw to obtain left and right halves. In the right half carcass, the following measurements were recorded using a tape measure: dorsal length (DL), thoracic depth (TD), thigh length (TL), carcass length (CL), lumbar circumference (LC). The compactness index (CCI) was calculated as the CCW divided by the CL. Thereafter, the right half carcass was weighed and manually deboned to record weights of muscle (TCM), and bone (TCB). The CCI explained of 93% of variation for TCM (R ² = 0.93 and a CV = 9.30%). In addition, the DL was the best predictor ($p < 0.001$) for TCB (R ² = 0.60 and a CV = 18.9%). Our results indicated that the use of carcass measurements could accurately and precisely (R ² = ≥ 0.60 and ≤ 0.95) be used as alternatives to predict the carcass tissues composition in growing rabbits.
Palabras claves	Carcass, Growing Rabbits, Body Muscle
	1

Revista	FOREST SYSTEMS
Volumen	31
Número	1
ISSN	ISSN: 2171-5068
	elSSN: 2171-9845
DOI	10.5424/fs/2022311-18291
Título del Artículo	Tree species with potential for reforestation in coastal zones of the humid tropics
Autores e instituciones	Vargas-Simón, G ^[1] ; Domínguez-Domínguez, M ^[2] ; Pando-Fernández, V ^[3] ; Martínez-Zurimendi, P ^[3, 4]
de adscripción	[1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Biol, Km 0-5 Ctra Villahermosa Cardenas, Villahermosa 86090, Tabasco, México
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Resumen	Aim of study: The native species of warm humid climates Ceiba pentandra, Tabebuia rosea, Gliricidia sepium, Enterolobium cyclocarpum and Brosimum alicastrum are often included in Mexican reforestation programs. We evaluated

Resumen	the growth response in sandy so in the restoration of coastal area <i>Area of study:</i> Alluvial plain in F <i>Material and methods</i> : A total of for 23 months in 30 plots under The sample plots each occu percentage, stem height (SH), quantified. Survival and growth and ANOVA for repeated measu <i>Main results</i> : At the end of the ex- in <i>G. sepium</i> (88 %) and in <i>C.</i> total mortality at six months. The in <i>C. pentandra</i> (2.9 m and 7.8 c cm, respectively). <i>Gliricidia se</i> terms of BA (5.9 vs. 23 m ² ha ⁻¹ , <i>Research highlights:</i> The native high survival and growth in the si to the environment and <i>C. pent</i> that are necessary for the succession
Palabras claves	Basal area, <i>Ceiba pentandra</i> , G

Revista	REPRODUCTION IN DOMESTIC ANIMALS
Volumen	57
Número	8
ISSN	ISSN: 0936-6768 eISSN: 1439-0531
DOI	10.1111/rda.14135
Título del Artículo	The use of oxytocin to cause cervical dilati nulliparous goats: Improving pregnancy and k
Autores e instituciones de adscripción	Gutiérrez, VA ^[1] ; Sánchez-Dávila, F ^[1,2] ; Lede Brenner, EG ^[1] ; Luna-Palomera, C ^[4] ; Vázque ^[3] ; Grizelj, J ^[6]
	 Univ Autónoma Nuevo Leon, Fac Med Vet & Zootecnia, Posgrad Con Unidad Acad Marin, Lab Reprod Anim, Marin, NL, México Massey Univ, Sch Agr & Environm, Palmerston North, New Zealand Univ Autónoma Juárez Tabasco, Div Ciencias Agr 86280, Villahermo Univ Autónoma Estado México, Ctr Univ Temascaltepec, Temascalte Univ Zagreb, Fac Med Vet, Zagreb, Croatia
Resumen	To evaluate the effect of oxytocin as a cervical nulliparous goats inseminated transcervically season. One hundred sixteen nulliparous 33.4 ± 0.68 kg and an age of 13.7 ± 0.37 m exposed to active bucks of proven fertility for oestrus. One week later, the Ovsynch protoco application of 20 mg of gonadorelin (Day Zerv and of a second dose of 20 mg of gonador insemination (AI) was performed 16 hr later T1 = 50 IU saline, T2 = 25 IU oxytocin; T3 applied 10–15 min before AI. The time requir from groups T2 and T3 was 49.56 and 56.25 s for the goats from group T1 (p < .0001). In the catheter was inserted 2.1 cm into the cervical and T3 it reached 3.41 and 3.77 cm into the cervical

soils of these species that could serve as pioneers eas.

Frontera, Tabasco, México,

of 1080 plants were planted in 2014 and evaluated r a randomized block design with six replications. cupied 36 m² (each with 16 plants). Survival basal diameter (BD) and basal area (BA) were variables were analyzed using logistic regression sures, respectively.

experiment (2016), high survival was demonstrated pentandra (86 %), while *B. alicastrum* presented he highest values of SH and BD were presented cm, respectively) and in G. sepium (2.6 m and 4.2 epium differed significantly from C. pentandra in , respectively).

e species C. pentandra and G. sepium presented sandy soils; G. sepium showed strong adaptation ntandra offered suitable coverage, characteristics cess of reforestation and restoration programs.

Gliricidia sepium

cervical dilation for transcervical insemination in egnancy and kidding rates

ila, F^[1,2]; Ledezma-Torres, RA^[1]; Peterson, S^[3]; n, C^[4]; Vázquez-Armijo, JF^[5]; López-Villalobos, N

cootecnia, Posgrad Conjunto FA FMVZ, Gen Escobedo, México NL, México North New Zealand

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ascaltepec, Temascaltepec, México

cin as a cervical dilator, a study was carried out on transcervically at the beginning of the breeding nulliparous goats with a mean live weight of 13.7 ± 0.37 months were used. The goats were ven fertility for a period of 14 d in order to induce synch protocol was applied, which consisted of the relin (Day Zero), 0.075 mg of cloprostenol (Day 7) mg of gonadorelin applied on Day 9. Artificial ed 16 hr later. Three treatments were evaluated: oxytocin; T3 = 50 IU of oxytocin, intravenously The time required to inseminate each treated goat 56 and 56.25 s, respectively, versus 85.78 s needed .0001). In the T1 group of goats, the insemination to the cervical canal and in goats from groups T2 7 cm into the cervical canal, respectively (p = .02).

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Resumen	Pregnancy rates and prolificacy (kids/doe) were higher ($p = .02$) for groups T2 (82.93%; 1.16) and T3 (76.92%; 1.21) respectively than for control goats (61.11%; 0.69). In conclusion, the intravenous administration of oxytocin led to greater dilation and depth of cervical penetration, obtaining higher pregnancy rates and prolificacy.
Palabras claves	Cervix Dilation, Depth of Cervical Penetration, Prolificacy

Revista	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS
Volumen	169
Número	n/a
ISSN	ISSN: 0022-3697 eISSN: 1879-2553
DOI	10.1016/j.jpcs.2022.110837
Título del Artículo	Tailoring structural and photocatalytic features of nitrogen-doped Bi ₂ MoO ₆ structures under different nitrogen sources
Autores e instituciones de adscripción	 Rángel, R ^[1]; Rodríguez-López, J ^[1]; Lara, J ^[1]; Ramos-Carrazco, A ^[2]; Berman-Mendoza, D ^[2]; Cervantes-López, JL ^[3]; Cedeno-Garciduenas, VJ ^[4] [1] Univ Michoacána, Fac Ingn Quim, Div Estudios Posgrad, Morelia 58030, Michoacán, México [2] Univ Sonora, Dept Invest Fis, Hermosillo 83000, Sonora, México [3] Univ Autónoma Tabasco, Div Academ Ingn & Arquitectura, Ave Univ S-N, Villahermosa 86040, Tabasco, México [4] Inst Tecnol Valle Morelia, Carretera Morelia Salamanca Km 6-5, Morelia 58100, Michoacán, México
Resumen	The present research aimed to obtain Bi_2MoO_6 and nitrogen-doped Bi_2MoO_6 compounds capable of extending their light absorption capability toward the visible regime through nitrogen doping of those structures. It were obtained employing a high pressure-hydrothermal method assisted by microwave heating by using different nitrogen precursors including urea, thiourea, hydrazine, and ethylenediamine. The effect of nitrogen precursors on the physicochemical and structural properties was investigated in detail through scanning electron microscopy (SEM), X-ray photoelectron spectroscopy (XPS), X-ray diffraction (XRD), Raman spectroscopy, and specific surface area determination using the BET method. The energy bandgap was calculated by UV-Vis spectroscopy, which exhibits high absorption from the UV region up to the visible regime. Nitrogendoped Bi ₂ MoO ₆ compounds show high specific surface area values as well as a reduction in their bandgap energy values compared to pristine Bi ₂ MoO ₆ . Regarding the influence of the different nitrogen content in the Bi ₂ MoO ₆ structure (15.76 at. %), while hydrazine showed the highest specific surface area (11.01 m(2)/g). The compounds showed a positive effect, reaching a degradation of 66% under UV and 68%, under Vis irradiation of the lignin molecule. Also, the results indicate that the N-doped Bi ₂ MoO ₆ compounds are more active than the pristine Bi ₂ MoO ₆ . The methodology presented here provides an easy and low-cost way for the synthesis of Bi ₂ MoO ₆ structures with potential use in the field of photocatalysis.
Palabras claves	Bismuth molybdate, Nitrogen doping, Semiconductor

Revista	CATALYSIS TODAY
Volumen	392
Número	N/A
ISSN	ISSN: 0920-5861
	elSSN: 1873-4308
DOI	10.1016/j.cattod.2022.02.005

Título del ArtículoSynthesis and characterization of treatment on catalytic activity ofAutores e instituciones de adscripciónCuauhtemoc, I ^[1] ; Estudillo-Won [1] Univ Juárez Autónoma Tabasco, Lab Catálisis Méndez AP 24, Cunduacán 86690, Tabasco, Méxi [2] Inst Politeon Nacl, CIIEMAD, Dept Biociencias &ResumenWe report physicochemical cha TiO2 magnetic materials synthe method with heat-treatment at 60 crystallographic phases including granular morphology, with no Rietveld Refinement and SEI Electron Microscopy (HR-TEM hexagonal nanoparticles. Sample Magnetometry (VSM) in remanence response is attributed ultra-violet visible (DR-UV-Vis) hydrogen (H2-TPR) showed pho- near its surface, with a superficia different interaction between iron lower magnetic remanence, ar conversion rates near 80% fo 3 ⁺ oxidation states for Fe and TiPalabras clavesHematite, Anatase, Fe2O3-TiO2					
instituciones de adscripción[1] Univ Juárez Autónoma Tabasco, Lab Catálisia Méndez AP 24, Cunduacán 86690, Tabasco, Méxie [2] Inst Politeon Nacl, CIIEMAD, Dept Biociencias & TiO2 magnetic materials synthe method with heat-treatment at 60 crystallographic phases including granular morphology, with no Rietveld Refinement and SEI Electron Microscopy (HR-TEM hexagonal nanoparticles. Sample Magnetometry (VSM) in remanence response is attributed ultra-violet visible (DR-UV-Vis) hydrogen (H2-TPR) showed phor near its surface, with a superficial different interaction between iron lower magnetic remanence, ar conversion rates near 80% fo 3 ⁺ oxidation states for Fe and TiPalabrasHematite_Anatase_Ee_2O2TIO2					
TiO2 magnetic materials synthe method with heat-treatment at 61 crystallographic phases including granular morphology, with no Rietveld Refinement and SEI Electron Microscopy (HR-TEM hexagonal nanoparticles. Sample Magnetometry (VSM) in remanence response is attributed ultra-violet visible (DR-UV-Vis) hydrogen (H2-TPR) showed photonear its surface, with a superficial different interaction between iron lower magnetic remanence, ar conversion rates near 80% fo 3 ⁺ oxidation states for Fe and TiPalabrasHematite Anatase Fe2O2TIO2	instituciones	 Univ Juárez Autónoma Tabasco, Lab Catálisi Méndez AP 24, Cunduacán 86690, Tabasco, Méxi 			
	Resumen	TiO ₂ magnetic materials synthe method with heat-treatment at 6 crystallographic phases including granular morphology, with no Rietveld Refinement and SEI Electron Microscopy (HR-TEM hexagonal nanoparticles. Sample Magnetometry (VSM) in remanence response is attributed ultra-violet visible (DR-UV-Vis) hydrogen (H ₂ -TPR) showed pho near its surface, with a superficial different interaction between iron lower magnetic remanence, ar conversion rates near 80% for			
		Hematite, Anatase, Fe ₂ O ₃ -TiO ₂			

Revista	TROPICAL ANIMAL HEALTH A
Volumen	54
Número	2
ISSN	ISSN: 0049-4747 eISSN: 1573-7438
DOI	10.1007/s11250-022-03101-1
Título del Artículo	Study of racial profile of the nati two regions of México: morphom
Autores e instituciones de adscripción	Portillo-Salgado, R ^[1] ; Herrera- Villarreal, A ^[2] ; Cigarroa-Vázque
	 Colegio Postgrad, Programa Ganadería, Campi Colegio Postgrad, Dept Ciencias Agr, Campus G Univ Autónoma Chiapas, Escuela Estudios Agri 29625, Chiapas, México
	 [4] Univ Juárez Autónoma Tabasco, Div Acad Cie México [5] Nasarawa State Univ, Dept Anim Sci, Shabu La
Resumen	The present study aimed at the Guajolote reared in two regions of Data from a total of 362 unrelated were used: of these, 160 were Southeast region. The birds were 8 months; n = 150) and adults (> nine morphometric measurement body height (BH), neck length (N diameter (SD), wing length (WL

of Fe₂O₃-TiO₂ magnetic materials: Effect of heatnaphthalene hydrogenation

ng, LA^[2]; Jiménez-Vázquez, A^[1]

sis Heterogenea, Área Quím, DACB, Km 1 Carretera Cunduacán Jalpa de icc

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aracterization and catalytic evaluation of Fe₂O₃esized at mild conditions, using co-precipitation 673 K, 773 K and 873 K. Results indicate different ng anatase, hematite, rutile and maghemite with a uniform grain-size distribution, as confirmed M techniques. High-Resolution Transmission I) confirmed presence of stick, spherical and The N₂-physisorption and Vibrating ndicated that Specific Area (S_{BET}) and magnetic ed to calcination temperatures. Diffuse reflectance and Temperature Programmed Reduction of ptoactive species are related to Fe-based content ial metallic iron, during hydrogenation process. A on-oxide and titanium oxide materials is linked to nd this could promote catalytic activation with or 1 h of chemical reaction related to 2⁺ and i species.

AND PRODUCTION

tive Guajolote (Meleagris gallopavo gallopavo) in metric characterization

a-Haro, JG^[1]; Bautista-Ortega, J^[2]; Sánchezez, FA^[3]; Chay-Canul, AJ^[4]; Yakubu, A^[5]

pus Montecillo, Montecillo 56230, Texcoco, México Campeche, Champoton 24450, Campeche, México ropecuarios Mezcalapa, Carretera Chicoasen, Malpaso, Km 24.3, Copainala

encias Agr, Carr Villhermosa Teapa, Km 25, Villahermosa 86280, Tabasco,

afia Campus, PMB 135, Lafia, Nigeria.

he morphometric characterization of the native of México using multivariate analysis techniques. ed native Guajolotes (257 males and 105 females) from the Central region and 202 were from the re also grouped according to age, as youngs (<= >= 9 months; n = 212). The body weight (BW) and ents-chest circumference (CC), body length (BL), (NL), peak length (PL), shank length (SL), shank L) and wing width (WW)-were measured. There

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Resumen	were significant differences (p < 0.05) due to the effect of region, sex and age for most of the morphometric measurements evaluated. There was a high percentage of positive and significant correlations (p < 0.001; p < 0.01) between the variables. In each region, three principal components were extracted that represented more than 75% of the accumulated variation among the variables. The most discriminating morphometric measurements between populations were WW, PL and NL. The Mahalanobis distance between the males and females of the two populations was 37.457 and 29.310 (p < 0.001), respectively. This differentiation can contribute to the definition of the phenotypic standard of this poultry genetic resource for its official recognition as a breed, as well as in the orientation of its genetic improvement programs in the future.
Palabras claves	Animal Genetic Resource, Native Guajolote, Factor Analysis

Revista	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY						
Volumen	97						
Número	11						
ISSN	ISSN: 0268-2575 eISSN: 1097-4660						
DOI	10.1002/jctb.7084						
Título del Artículo	Structural, optical and photocatalytic properties of Sr-doped and Ca-doped BiFeO ₃ compounds prepared by Pechini method						
Autores e instituciones de adscripción	Salaya-Gerónimo, E [2]; García-Zaleta, DS ^[1] ; Jácome-Acatitla, G ^[1] ; Huerta-García, E ^[1] ; López-González, R ^[3] ; Reyes-Montero, A ^[4] ; Abdel-Mageed, AM ^[5] [1] Univ Juárez Autónoma Tabasco, Div Acad Multidisciplinaria Jalpa de Méndez, Jalpa De Méndez 86205, Tabasco, México [2] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Bas, Alumno MQA, Cunduacán, México [3] Univ Juárez Autónoma Tabasco, Div Acad Ingn & Arquitectura, Cunduacán, México [4] Univ Nacl Autónoma México, Inst Invest Mat, México City, DF, México [5] Leibniz Inst Katalyse LIKAT, Rostock, Germany						
Resumen	BACKGROUND BiFeO ₃ is an important new visible-light photocatalyst for the removal of organic pollutants, the efficacy of which is related to its narrow band gap energy (2.2 eV) and excellent chemical stability. In this work, the effects of Sr and Ca doping on the structural and photocatalytic properties of BiFeO ₃ were investigated. RESULTS X-ray diffraction results revealed the formation of a rhombohedral structure (R3c), as well as the successful incorporation of Sr ²⁺ and Ca ²⁺ ions into the BFO structure. The nanometric size of the specimens was in the range 23-55 nm. The percentage of structural phases in the obtained compounds was calculated by Rietveld analysis. Scanning electron microscopy results showed changes in the morphology and grain sizes. The band gap values of the ceramics display a gradual reduction when the dopant concentration is increased. The surface analysis by X-ray photoelectron spectroscopy revealed, for all compounds, the characteristic peaks of Fe and Bi, as well as Sr and Ca in the doped samples. CONCLUSION The photocatalytic activity of the prepared photocatalyst was evaluated by the removal of methylene blue and 4-chlorophenol. The doped samples showed higher photocatalytic activity compared to the undoped BiFeO ₃ sample, attributed to the enhanced visible light absorption, the synergistic effects of the BiFeO ₃ and Bi ₂ Fe ₄ O ₉ phases, as well as the successful separation of photogenerated electrons and holes induced by Sr and Ca doping. (c) 2022 Society of Chemical Industry (SCI).						
Palabras claves	BiFeO ₃ , Sr-doped BiFeO ₃ , Ca-doped BiFeO ₃						

Volumen45Número2ISSNISSN: 1578-665X elSSN: 2014-928XDOI10.32800/abc.2022.45.0131Título del ArtículoSpatial ecology of jaguar (Panthe Peninsula, MéxicoAutores e instituciones de adscripciónGonzález-Gallina, A ^[1] ; Equihua, JA [2]; de Ita, AO ^[3] ; Chaon-Herr [2](1] Inst Ecol AC, Red Ambiente & Sustentabilidad, X [2] Univ Juárez Autónoma Tabasco, Div Acad Cienc (3) Sistemas Estrateg Gest Ambiental SEGA SA CVResumenJaguars (Panthera onca) are e species for conservation action. most studies have been associath habitation. Because protected are over the long-term, a landscap unprotected lands is needed. Th ecological corridor linking two pro- risk of disappearing due to touri four male jaguars were captured the corridor. The mean home ran the dry season and 172 km² (± 11 area size (± SD) was 17.54 km km2² (± 16.19 km²) for the rainy s found for home ranges or for cord preferred forest or young seconds whatever vegetation was availar protected, a biological corridor linking to prod gray population, a popul presence. Conservation actions a what remains of tropical mature of term secondary growth into closePalabras clavesConservation, Corridor, Home ra	Revista	ANIMAL BIODIVERSITY AND C
ISSNISSN: 1578-665X eISSN: 2014-928XDOI10.32800/abc.2022.45.0131Título del ArtículoSpatial ecology of jaguar (Panthe Peninsula, MéxicoAutores e instituciones de adscripciónGonzález-Gallina, A [1]; Equihua, JA [2]; de Ita, AO [3]; Chaon-Herr [2][1] Inst Ecol AC, Red Ambiente & Sustentabilidad, X [2] Univ Juárez Autónoma Tabasco, Div Acad Cienc [3] Sistemas Estrateg Gest Ambiental SEGA SA CVResumenJaguars (Panthera onca) are e species for conservation action. most studies have been associat habitation. Because protected are over the long-term, a landscap unprotected lands is needed. Th ecological corridor linking two pro- risk of disappearing due to touri four male jaguars were captured the corridor. The mean home ran the dry season and 172 km² (± 10) area size (± SD) was 17.54 km km²² (± 16.19 km²) for the rainy s found for home ranges or for com- preferred forest or young secondar whatever vegetation was availar protected, a biological corridor linking two protected, a biological corridor linking two presence. Conservation actions a <th></th> <th></th>		
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Instituciones de adscripciónJA [2]; de Ita, AO [3]; Chaon-Herr [2][1] Inst Ecol AC, Red Ambiente & Sustentabilidad, X [2] Univ Juárez Autónoma Tabasco, Div Acad Cienc [3] Sistemas Estrateg Gest Ambiental SEGA SA CVResumenJaguars (Panthera onca) are e species for conservation action. most studies have been associat habitation. Because protected are over the long-term, a landscap unprotected lands is needed. The ecological corridor linking two pro- risk of disappearing due to touri four male jaguars were captured the corridor. The mean home ran the dry season and 172 km² (± 1) area size (± SD) was 17.54 km km2² (± 16.19 km²) for the rainy s found for home ranges or for corr preferred forest or young second whatever vegetation was availa protected, a biological corridor linking two prup resence. Conservation actions a what remains of tropical mature form secondary growth into closePalabrasConservation Corridor Home ran term secondary growth into close		
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I ODSORVATION I OFFICIAL HOMO PA	Resumen	species for conservation action. most studies have been associat habitation. Because protected are over the long-term, a landscap unprotected lands is needed. The ecological corridor linking two pro- risk of disappearing due to touri four male jaguars were captured the corridor. The mean home ran the dry season and 172 km ² (± 10 area size (± SD) was 17.54 km km2 ² (± 16.19 km ²) for the rainy s found for home ranges or for corr preferred forest or young second whatever vegetation was availar protected, a biological corridor lin own jaguar population, a popul presence. Conservation actions a what remains of tropical mature for
		Conservation, Corridor, Home ra

Revista	LATIN AMERICAN JOURNAL OF
Volumen	50
Número	2
ISSN	ISSN: 0718-560X
	elSSN: 0717-7178
DOI	10.3856/vol50-issue2-fulltext-2786
Título del	Short-tailed pipefish (Microphis bra
Artículo	density on growth, survival and con
Autores e instituciones de adscripción	Martínez-Cárdenas, L ^[1] ; Hernánde Lango-Reynoso, F ^[4] ; Hernández Chaurand, D ^[7] ; Álvarez-González,
	 Univ Autónoma Nayarit, Secretaría Invest & Posgrad Univ Autónoma Nayarit, Licenciatura Biol, Xalisco, N Univ Juárez Autónoma Tabasco, Lab Fisiol Recursos Inst Tecnol Boca del Rio, Boca Del Rio, Veracruz, M Ctr Multidisciplinario Capaz It Arte, Tepic, Nayarit, M Univ Autónoma Nayarit, Escuela Nacl Ingn Pesquera Ctr Invest Biol Noroeste SC, Unidad Nayarit, CONAC

CONSERVATION

era onca) outside protected areas in the Yucatán

, M [1]; Pérez-Garduza, F ^[2]; Iglesias-Hernández, mández, A ^[3]; Zúñiga, OV ^[3]; Hidalgo-Mihart, MG

Xalapa 91070, Veracruz, México ncias Biol, Villahermosa 86040, Tabasco, México V Benit, Ciudad De México 03230, México

endangered in several countries and a priority n. Despite extensive research efforts in México ated with natural protected areas far from human reas are too few to conserve the jaguar population pe approach that includes both protected and his is the case in Quintana Roo State where an rotected areas (Yum Balam and Sian Ka'an) is at rism-driven activities. Between 2013 and 2015, ed and monitored using satellite telemetry inside inge size (± SD) was 101.5 km² (± 75.9 km2²) for 107.29 km²) for the rainy season. The mean core m^2 (± 16.21 km²) for the dry season and 29.07 season. No significant seasonal differences were re areas. As expected, we observed that jaguars dary growth over profusely disturbed areas, using lable in their home ranges. Although it is not linking Yum Balam and Sian Ka'an still holds its ulation that has learned to coexist with human are recommended at landscape level to maintain forest and to promote the development of longse tree canopy

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OF AQUATIC RESEARCH

brachyurus) juvenile culture: effect of stocking condition factor

ández-Cortéz, MI^[2]; Castañeda-Chávez, MR^[4]; dez, EFV ^[5]; Ponce-Palafox, JT ^[6]; Espinosalez, CA ^[3]

osgrad, Tepic, Nayarit, México sco, Nayarit, México ecursos Acuat, Div Acad Ciencias Biol, Villahermosa, Tabasco, México ruz. México arit, México esquera, Lab Bioingn Costera, Nayarit, México ONACYT, Tepic, Nayarit, México

Enero 2024

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Fuente de Artículos Científicos: https://jcr.clarivate.com

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Resumen	The present study aimed to test the effect of three stocking densities: 100, 200, and 300 ind m ⁻³ (D100, D200, and D300, respectively) on survival, growth (weight and total length), and condition factor of <i>Microphis brachyurus</i> . At the end of the six-week trial, there were no significant differences in the fish's survival, growth, and condition. The results suggest that this species presents high adaptability under culture conditions. A suboptimal stocking density generates a suboptimal use of infrastructure and decreases the production system's profitability. Based on the present study, a stocking density of 300 ind m ⁻³ is recommended to increase the aquaculture infrastructure's profitability for ornamental or conservation purposes.
Palabras claves	Microphis brachyurus, Syngnathids, Aquaria

Revista	ARCHIVES ANIMAL BREEDING						
Volumen	65						
Número	3						
ISSN	ISSN: 0003-9438 eISSN: 2363-982						
DOI	10.5194/aab-65-259-2022						
Título del Artículo	Sexual performance and semen quality of pubertal lambs treated with different weaning methods						
Autores e instituciones de adscripción	Ledezma-Torres, RA ^[1] ; Sánchez-Davila, F ^[2] ; Rodríguez-Miranda, DA ^[3] ; Luna- Palomera, C ^[4] ; Grizelj, J [5]; Vázquez-Armijo, JF ^[6] ; López-Villalobos, N ^[6,7] [1] Univ Autónoma Nuevo Leon, Fac Med Vet & Zootecnia, Posgrad Conjunto FA FMVZ, Gen Escobedo 66050, México [2] Univ Autónoma Nuevo Leon, Fac Agron, Posgrad Conjunto FA FMVZ, Lab Reprod Anim, Unidad Acad Marin, Marin 66700, México [3] Univ Autónoma Nuevo Leon, Posgrad Conjunto FA FMVZ, Gen Escobedo 66050, México [4] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Agr, Villahermosa 86280, Tabasco, México [5] Univ Zagreb, Fac Med Vet, Zagreb, Croatia [6] Univ Autónoma Estado México, Ctr Univ Temascaltepec, Temascaltepec 51300, México [7] Massey Univ, Sch Agr & Environm, Palmerston North 4442, New Zealand						
Resumen	The objective of this study was to determine the effect of the weaning method on lamb stress, body weight, sexual behavior, and semen quality of Saint Croix male lambs. The present study was carried out during the late spring and summer of 2018 in the northeast of México. Sixty male lambs born as twins or triplets (3.2 ± 0.6 kg birth weight) and weaned at 60 d of age (19.21 ± 1.8 kg weaning weight) were divided into two weaning methods: complete separation from the dams (CS; the lambs were moved to a pen that was at 500 m of distance from the dams) and separation with contact from the dams (SCD); the lambs were physically separated by a steel mesh that prevented the lambs from having the possibility of sucking milk from their mothers, but they maintained permanent visual and auditory contact. Cortisol levels were determined 3 d before and 7 d after weaning. Lambs were evaluated as 3-month-old lambs for sexual behavior and semen quality for 9 weeks. The effects of the weaning method (M), week (W), and the interaction M × W were significant on body weight and cortisol levels (<i>P</i> <0.001). The SCD lambs had higher cortisol levels at 3, 5, and 7 d after weaning than CS lambs (<i>P</i> <0.001). The CS lambs had higher body weight during the first 4 weeks after weaning than SCD lambs (<i>P</i> <0.001). The weaning method had no effect on scrotal circumference, sexual behavior, and semen quality traits, except for progressive sperm motility, being better for the lambs that were completely separated (<i>P</i> <0.05). The results from this study show that complete separation of lambs and ewes at weaning is an effective method to reduce lamb stress and improve lamb growth after weaning, but it did not have long-term effects on sexual behavior and semen quality of Saint Croix male elembs.						
Palabras claves	Stress-Response, Growth, Ewes						

Revista	LATIN AMERICAN JOURNAL C
Volumen	19
Número	2
ISSN	1679-7825
DOI	10.1590/1679-78256583
Título del Artículo	Seismic performance assessmer
Autores e instituciones	Díaz, DA ^[1] ; Díaz, SA ^[1] ; Pinzon, RS ^[1]
de adscripción	 Univ Juárez Autónoma Tabasco, Div Acad Ingn Univ Catolica Santa Maria La Antigua, Direcc Ing Univ Autónoma Carmen, Ciudad del Carmen, Ca
Resumen	The seismic regulations for the set the maximum interstory drift, the article presents a study of the set steel buildings using México's guidelines. The capacity spectru of buildings with 3 different heig seismicity, as well as for soft conservative in its assement of of line with the expected damage prevention state, CPstate, in Méx and are consistent with the dama high seismicity zones, the CPstate expected, prevent building collap still occur. The theta(max) of the of intensities and not only for building
Palabras claves	Interstory drift, steel buildings, no

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ent based on the interstory drift of steel buildings

LA (Pinzon, Luis A.) [2]; Jesús, H [3]; Mora-Ortíz,

n & Arquitectura, Villahermosa, Tabasco, México nvest, Ciudad De Panama, Panama Campeche, México

seismic performance assessment of buildings use eta(max), as a measure to control damage. This eismic performance based on the theta(max) for s regulations and the RISK-UE and HAZUS um method is used to evaluate the performance ights located in 4 cities in México with different and rock soil types. The HAZUS criterion is damage, while the RISK-UE criterion is more in e. The service state, S-state, and the collapse xico's regulations are suitable for damage control, age proposed by the RISK-UE guidelines. In very ate for seismic actions equal to or greater than the pse; however, significant damage to buildings can CPstate must be established for different seismic ing types.

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from sugarcane bagasse and orange peel to ons in the metal ions removal

uerta, AM^[2]; Domínguez-Crespo, MA^[2]; Palma-, E^[4]; Negrete-Rodríguez, MXL^[4]; Rodríguez-ÓS ^[6]

Im 14-5 Carretera Tamp Puerto Ind Altamira, México City, DF, México ultura, UPIIH, Carretera Pachuca Actopan Km 1 500 San Agustin TI, Pachuca

npia CMPL, Av Acueducto S-N, México City 07340, DF, México t Environm Engn, Av Tecnol & A García Cubas 600, Guanajuato 3801, México Blanco 141, Santiago De Querétaro 76090, Querétaro, México tatal Libre Villahermosa Comalcalco, K, Villahermosa 86205, Tabasco, México

als contained in residual water and the pollution of unexploited agro-industrial waste are a serious nd mankind. Therefore, in the present work, with ng the pollution caused by heavy metal ions (Pb, rbons (ACs) were synthesized from sugarcane

Fuente de Artículos Científicos: https://jcr.clarivate.com

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Resumen	bagasse (SCB) and orange peel (OP) by means of physical - chemical activation	Autores e	[3] Inst Tecnol Co
	method in an acid medium (H ₃ PO ₄ , 85 wt%) followed by an activation at high	instituciones	[4] Tecnol Nacl N
	temperature (500 and 700 & DEG;C). Thereafter, these materials were used to	de adscripción	[5] Tecnol Nacl M [6] Univ Copenha
	produce carbon foams (CF) by the replica method and to evaluate their adsorbent		[o] cim coperin
	capacity for the removal of heavy metals from synthetic water. XRD, FTIR, DLS,	Resumen	This study
	BET, Zeta Potential (zeta), SEM-EDS and AAS were used to investigate their		acid (VFA)
	structures, surface area, pore size, morphology, and adsorption capacity. The		In this case
	results show that as-prepared CF have a second level mesoporous structure and		21.17 ± 3.8
	AC present a micro-mesoporous structure with a pore diameter between 3 and 4		a basal die
	nm. The experimental adsorption capacities of heavy metals showed that the CF		intake (DN
	from OP present a better elimination of heavy metals compared to the AC;		using a li
	exhibiting a removal capacity of 95.2 +/- 3.96% (Pb) and 94.7 +/- 4.88% (Cu) at		metabolic
	pH = 5. The adsorption values showed that the optimal parameters to reach a		regression
	high metal removal are pH values above 5. In the best of cases, the minimum		classified a
	remaining concentration of lead and copper were 2.4 and 2.6 mg L-1,		DWG/DMI
	respectively. The experimental data for carbon adsorbents are in accordance with		N), and VF
	the Langmuir and BET isotherms, with $R-2 = 0.99$ and the maximum homogenous		Feed intak
	biosorption capacity for lead and copper was $Q(max) = 968.72$ and 754.14 mg g(-		growth rate
	1), respectively. This study showed that agro-industrial wastes can be effectively		as CH₄ pro
	retrieved to produce adsorbents materials for wastewater treatment applications.	Palabras	Residual F
Palabras claves	Activated carbon, Carbon foam, Metals adsorption	claves	1 Colduar 1

Revista	COMMUNICATIONS IN STATISTICS-THEORY AND METHODS	
Volumen	N/A	
Número	N/A	
ISSN	ISSN: 0361-0926 eISSN: 1532-415X	
DOI	10.1080/03610926.2022.2087091	
Título del Artículo	Ruin probability for finite negative binomial mixture claims via recurrence sequences	
Autores e instituciones de adscripción	Rincón, L ^[1] ; Santana, DJ ^[2] [1] Univ Nacl Autónoma México, Fac Ciencias, Dept Matemat, México City, DF, México [2] UJAT, Div Acad Ciencias Básicas, Villahermosa, Tabasco, México	
Resumen	A new procedure to find the ultimate ruin probability in a discrete-time risk model is presented for claims with a mixture of m negative binomial distributions. The method involves the theory of linear recurrence sequences. It requires to find the zeroes of an m degree polynomial and the solution of a system of m linear equations. Numerical results and plots are provided as examples.	
Palabras claves	Ruin probability, Discrete-time Risk Model, Negative Binomial Distribution	

Revista	ANIMALS
Volumen	12
Número	5
ISSN	2076-2615
DOI	10.3390/ani12050572
Título del Artículo	Residual Feed Intake and Rumen Metabolism in Growing Pelibuey Sheep
Autores e instituciones de adscripción	Arce-Recinos, C ^[1,2] ; Ojeda-Robertos, NF ^[1] ; García-Herrera, RA ^[1] ; Ramos- Juárez, JA ^[2] ; Pineiro-Vázquez, AT ^[3] ; Canul-Solís, JR ^[4] ; Castillo-Sánchez, LE ^[4] ; Casanova-Lugo, F ^[5] ; Vargas-Bello-Pérez, E ^[6] ; Chay-Canul, AJ ^[1]
	[1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Agr, Carretera Villahermosa Teapa, Km 25, R-A, Villahermosa 86280,
	Tabasco, México
	[2] Col Postgrad, Campus Tabasco, Perifer Carlos Molina Km 3-5, Cardenas 86500, Tabasco, México

Revista	FOOD BIOSCIENCE
Volumen	47
Número	n/a
ISSN	ISSN: 2212-4292 eISSN: 2212-4306
DOI	10.1016/j.fbio.2022.101695
Título del Artículo	Recent trends and technical advancements i applications in food and bioscience
Autores e instituciones	Bankole, OE $^{[1]}$; Verma, DK $^{[2]}$; González, MLC J $^{[5]}$; Aguilar, CN $^{[3]}$
de adscripción	 Anchor Univ, Fac Sci & Sci Educ, Dept Chem Sci, Lagos, Nigeria Indian Inst Technol Kharagpur, Agr & Food Engn Dept, Kharagpur 72⁻¹ Univ Autónoma Coahuila, Sch Chem, Food Res Dept, Bioproc Res Gr Univ Juárez Autónoma Tabasco, Los Rios Multidisciplinary Acad Div, Univ Autónoma Coahuila, Sch Chem, Dept Analyt Chem, Unidad Salti
Resumen	Biosensor development has recently advance indisputable uses as analytical methods in medicine, food industry, environmental mor military, and security. The popularity of biose applications may be ascribed to their distinct ac high sensitivity, minimal sample demand and specific skill of operation that traditional ar attempted to update earlier studies in this stud that have been in use but have received less onions (CNOs), metal-organic frameworks biosensor manufacturing and design based assessment also took into account applicab Although considerable progress has been mad there is still a need for research development transforming most of the laboratory expert published into portable on-site and implemental
Palabras claves	Biosensors, Nanotechnology, Nano-materials

l Conkal, Tecnol Nacl México, Ave Tecnol S-N, Conkal 97345, Yucatán, México México, Inst Tecnol Tizimin, Tizimin 97702, Yucatán, México México, Inst Tecnol Zona Mava, Othon P Blanco 77965, Quintana Roo, México nhagen, Fac Hlth & Med Sci, Dept Vet & Anim Sci, Gronnegardsvej 3, DK-1870 Frederiksberg, Denmark

dy was carried out to evaluate the residual feed intake (RFI), volatile fatty A) production and enteric methane (CH₄) from growing Pelibuey sheep. ase, 12 non-castrated Pelibuey with an initial average live weight (LW) of 8.87 kg and an age of 3 months, were housed in individual pens and fed diet with 16% of crude protein and 11 MJ ME for 45 days. Dry matter DMI) was measured and the daily weight gain (DWG) was calculated linear regression between the LW and experimental period. Mean c live weight (LW^{0.75}) was calculated. RFI was determined by linear on with DWG and LW^{0.75} as independent variables. Lambs were as low, medium, and high RFI. Feed efficiency was determined as II. For determining rumen pH, ammonia nitrogen concentration NH₃-/FA, ruminal fluid was obtained using an esophageal probe on day 40. ake of low RFI lambs was approximately 16% lower (p < 0.05) while ate was not significantly different. Their average energy loss, expressed roduction per kilogram of metabolic weight, was 17% lower (p < 0.05).

I Feed Intake, Volatile Fatty Acids, Methane

dvancements in biosensors and their emerging nce

González, MLC^[3]; Ceferino, JG^[4]; Sandoval-Cort,

gn Dept, Kharagpur 721302, W Bengal, India

es Dept, Bioproc Res Grp, Unidad Saltillo 25280, Coahuila, México tidisciplinary Acad Div, Villahermosa, Tabasco, México alvt Chem. Unidad Saltillo 25280. Coahuila. México

cently advanced as a result of their strong and al methods in a variety of sectors, including ronmental monitoring, metabolism, agriculture, ularity of biosensors as devices for a variety of their distinct advantages of fast or rapid analysis, le demand and preparation, and no need for the traditional analytical procedures require. We dies in this study by incorporating other materials re received less attention, such as carbon nanoic frameworks (MOFs), and biopolymers for design based on their unique properties. The count applicable applications in many sectors. has been made in the application of biosensors, h development and enhancement, particularly in poratory experiments that have already been and implementable in the public domains.

Enero 2024

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Revista	CATALYSIS TODAY
Volumen	392
Número	N/A
ISSN	ISSN: 0920-5861 eISSN: 1873-4308
DOI	10.1016/j.cattod.2021.11.006
Título del Artículo	Production of 5-Hydroxymethylfurfural from glucose using AI_2O_3 -TiO ₂ -ZrO ₂ ternary catalysts
Autores e instituciones de adscripción	Cortéz-Elizalde, J ^[1] ; Silahua-Pavón, AA ^[1] ; Córdova-Pérez, GE ^[1] ; Arévalo- Pérez, JC ^[1] ; Guera-Qué, Z ^[3] ; Espinosa-González, CG ^[2] ; Ortiz-Chi, F ^[2] ; Godavarthi, S ^[2] ; Torres-Torres, JG ^[1] [1] Univ Juárez Autónoma Tabasco, Lab Nanomat Catalit Aplicados Desarrollo Fuentes, Ctr Invest Ciencia & Tecnol Aplicada Tabasco CICT, DACB, Km 1 Carretera Cunduacán Jalpa Méndez AP 24, Cunduacán 86690, Tabasco, México [2] Cátedras CONACYT Univ Juárez Autónoma Tabasco, Lab Nanomat Catalit Aplicados Desarrollo Fuentes, Ctr Invest Ciencia & Tecnol Aplicada Tabasco CICT, DACB, Km 1 Carretera Cunduacán Jalpa Méndez AP 24, Cunduacán 86690, Tabasco, México [3] Tecnol Nacl México Campus Villahermosa, Lab Invest Area Nanotecnol 1, Km 3-5 Carretera Villahermosa Frontera, Villahermosa 86010, Tabasco, México
Resumen	In this work, mixed oxides AI_2O_3 -TiO_2-ZrO_2 were evaluated varying their composition (% w/w) for the conversion of monosaccharides (fructose and glucose) to 5-hydroxymethylfural (HMF). Materials were characterized using Thermogravimetric Analysis and Differential Scanning Calorimetry (TGA-DSC), Nitrogen Physisorption (N ₂), X-ray Diffraction (XRD), RAMAN Spectroscopy, DRS UV-Vis Spectroscopy, Infrared Spectroscopy (FTIR), SEM, TEM, FTIR-Pyridine and Temperature Programmed Desorption of CO ₂ (TPD-CO ₂). The reactions were carried out at 175 °C and 30 bar of Ar pressure in a biphasic system (THF/H ₂ O) for 3 h, obtaining a 78% maximum yield of HMF from the glucose and 63% yield from fructose. The materials studied carried out a direct dehydration of the monosaccharides to HMF in 30 min of reaction and were obtained as intermediates to dehydrate levulinic acid (LA) and formic acid (FA), these intermediates were analyzed and eluted using ¹ H NMR technique.
Palabras claves	5-hydroxymethylfural, Glucose, Al ₂ O ₃ -TiO ₂ -ZrO ₂

Revista	PLANTS-BASEL
Volumen	11
Número	6
ISSN	2223-7747
DOI	10.3390/plants11060794
Título del	Preliminary Phytochemical Profile and Bioactivity of <i>Inga jinicuil</i> Schltdl & Cham.
Artículo	ex G. Don
Autores e instituciones de adscripción	Gallegos-García, AJ ^[1,2] ; Lobato-García, CE ^[1] ; González-Cortazar, M ^[2] ; Herrera- Ruiz, M ^[2] ; Zamilpa, A ^[2] ; Álvarez-Fitz, P ^[3] ; Pérez-García, MD ^[2] ; López- Rodríguez, R ^[1] ; Blé-González, EA ^[1] ; Medrano-Sánchez, EJ ^[1] ; Feldman, MR ^[4] ; Bugarin, A ^[4] ; Gómez-Rivera, A ^[1]
	 [1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Básicas, Carretera Cunduacán Jalpa Km 0-5, Cunduacán 86690, Tabasco, México
	[2] Inst Mexicano Seguro Social, Ctr Invest Biomed Sur, Argentina 1, Xochitepec 62790, Morelos, México
	[3] Univ Autónoma Guerrero, Catedra CONACyT, Lab Toxicol, Av Lázaro Cardenas S-N Col La Haciendita, Chilpancingo 39070, Guerrero, México
	[4] Florida Gulf Coast Univ, Dept Chem & Phys, Ft Myers, FL 33965 USA
Resumen	Several Mesoamerican cultures have used <i>Inga jinicuil</i> as traditional medicine for the treatment of gastrointestinal, inflammatory, and infectious issues. The aims of

Resumen	this contribution were to elucidat from the bark and leaves of <i>I</i> . antibacterial properties of these determined by HPLC-PDA are evaluated with a mouse ear ede screened against several bacter and leaves) of <i>I</i> . <i>jinicuil</i> led to polyphenolic, flavonoids, triterp aliphatic esters. This molecular (67.3 \pm 2.0%, dichloromethane against <i>Pseudomona aerugii</i> <i>aureus</i> (MIC values of <3.12 contribute to the chemotaxon traditional medicine of <i>Inga jinic</i>
Palabras claves	Inga jinicuil; Phytochemical Pro

Revista	REVISTA MEXICANA DE INGE
Volumen	21
Número	2
ISSN	665-2738
DOI	10.24275/rmiq/IA2753
Título del	Pre-evaluation of contaminate
Artículo	Veracruz, México
Autores e instituciones de adscripción	Yzquierdo-Ruiz, MM ^[1] ; Torres- Ojeda-Morales, ME ^[1] ; Hernánde Rivera, MA ^[1] ; Zurita-Macías-Va [1] Univ Juárez Autónoma Tabasco, Carretera Cur
	 [2] Univ Autónoma San Luis Potosí, Álvaro Obrego [3] Univ Autónoma Coahuila, Blvd Carranza S-N, S [4] Inst Politecn Nacl, Unidad Mérida, Antigua Car
Resumen	This document presents studies oil sector in 13 wells in the M hydrocarbons in soils. Four assessment, methods for the Soxhlet and the Petroflag), ef content. The results show spills fractions (mainly polar). Howeve below or between the rhizosphe were found in specific sites such pits, pollutants had contact with hydrocarbons, the Soxhlet meth Likewise, a relationship between properties, such as the increase as well as the decrease in field salinity increased when the hydr mg.kg(-1)). Finally, metals such but only Ni was found at danger
Palabras claves	Diagnostic, Heavy Metals, Hydr

ate the phytochemical profile of the organic extracts jinicuil and to assess the anti-inflammatory and se extracts. The preliminary chemical profile was and GC-MS; the anti-inflammatory activity was lema model, whereas the antibacterial activity was ria. The phytochemical profile of both organs (bark to the identification of 42 compounds, such as penes, prenol-type lipids, and aliphatic and nondiversity gave moderate anti-inflammatory activity e bark extract) and excellent antibacterial activity inosa and methicillin-resistant Sthaphylococcus 2 and 50 µg/mL, respectively). These results nomic characterization and the rational use in icuil Schltdl & Cham. ex G. Don.

ofile; HPLC-PDA

ENIERIA QUIMICA

ed soil for oil field reactivation in Moloacan,

s-Sánchez, SA ^[2]; De la Garza-Rodríguez, IM ^[3]; lez-Núñez, E^[4]; Lobato-García, CE^[1]; Hernándezaladez, M^[1]; Morales-Bautista, CM ^[1]

unduacán Jalpa Km 1, Cunduacán 86690, Tabasco, México gon 64, San Luis Potosí 78300, Slp, México , Saltillo 25280, Coahuila, México arretera Progreso Km 6, Mérida 97310, Yucatán, México

es to establish an Environmental Baseline for the Moloacan Field, in Veracruz, México regarding factors were taken into account: visual soil hydrocarbon extraction (with two methods: the effects on fertility properties, and heavy metals Is in every well with a high percentage of heavy ver, these are not entirely visible because they are ere. Also, higher concentrations of hydrocarbons ch as old incinerators and waste pits. In the waste h the aquifer. In addition, in the determination of hod showed better results than the Petroflag one. in these pollutants and the negative e ffects on soil se in densities, electrical conductivity, and sands, ld capacity and clays were found. Also, pH and Irocarbons exceeded the permissible limits (>4400 as Cr, V, Ba, Hg, Ni, Pb, and Cd were also found, rous levels for agricultural use.

rocarbons

Enero 2024

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Suplemento Especial

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Revista	ANIMALS
Volumen	12
Número	1
ISSN	2076-2615
DOI	10.3390/ani12010110
Título del	Physicochemical Characteristics of Yogurt from Sheep Fed with Moringa oleifera
Artículo	Leaf Extracts
Autores e instituciones de adscripción	 Mendoza-Taco, MM ^[1]; Cruz-Hernández, A ^[1]; Ochoa-Flores, AA ^[1]; Hernández-Becerra, JA ^[2]; Gómez-Vázquez, A ^[1]; Moo-Huchin, VM ^[3]; Pineiro-Vázquez, A ^[4]; Chay-Canul, AJ ^[1]; Vargas-Bello-Pérez, E ^[5] [1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Agr, Carretera Villahermosa Teapa, Km 25, R A, Huasteca 2, Villahermosa 86280, Tabasco, México [2] Univ Tecnolog Tabasco, Div Tecnol Alimentos, Villahermosa 86288, Tabasco, México [3] Inst Tecnol Mérida, Tecnol Nacl México, Km 5 Mérida Progreso, Mérida, Yucatán 97118, México [4] Inst Tecnol Conkal, Tecnol Nacl México, Avenida Tecnol S-N Conkal, Conkal, Yucatán 97345, México [5] Univ Copenhagen, Dept Vet & Anim Sci, Fac HIth & Med Sci, Gronnegardsvej 3, DK-1870 Frederiksberg, Denmark
Resumen	This study determined the effect of feeding <i>Moringa oleifera</i> (MO) leaf extracts to lactating ewes on the physicochemical composition of their milk and yogurt during storage (4 °C for 14 days) and the sensory acceptance of the yogurt. Over 45 days, 24 multiparous lactating Pelibuey and Katahdin ewes (two days in lactation) were randomly assigned to four groups: MO-0, basal diet (BD) + 0 mL MO; MO-20, BD + 20 mL MO; MO-40, BD + 40 mL MO; and MO-60, BD + 60 mL MO. In the milk, an increase of 6% in protein, 26% in leucine, 14% in ash, and 1% in the pH (6.71) was observed with MO-60. The density values decreased by 0.3% at a higher dose of MO compared to MO-0, while the nonfat solids (NFS) in the milk were similar between the treatments. In the yogurt, an increase of 5% in protein, 113% in leucine (MO-20), 9% in NFS, and a reduction of 2% in moisture with MO-60 was observed. The acidity reflected an inverse relationship to the pH, as did the moisture and NFS with MO-60. In conclusion, dietary supplementation with MO in lactating ewes did not have negative effects on the chemical composition of their yogurt during storage (14 days). Overall, feeding sheep with 20 mL of MO positively influenced the physicochemical composition of their milk and yogurt during storage.
Palabras claves	Moringa oleifera extracts; Physicochemical Composition; Milk.

Revista	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS
Volumen	33
Número	10
ISSN	ISSN: 0957-4522 eISSN: 1573-482X
DOI	10.1007/s10854-022-07916-4
Título del Artículo	Photoresponse enhancement in TiO ₂ thin films by incorporation Ni and Cr nanoparticles using sol-gel method
Autores e instituciones de adscripción	Solis-Cortazar, JC ^[1] ; Zamudio-Torres, I ^[1] ; Rojas-Blanco, L ^[1] ; Pérez-Hernández, G ^[1] ; Arellano-Cortaza, M ^[1] ; Castillo-Palomera, R ^[1] ; De los Monteros, AE ^[1] ; Ramírez-Morales, E ^[1] [1] Univ Juárez Autónoma Tabasco, Ave Univ S-N, Villahermosa 86040, Tabasco, México
Resumen	The incorporation of nanoparticles in TiO_2 generates narrow bands located in the energy gap and its reduction. In this work, TiO_2 films and the incorporation of Ni and Cr nanoparticles by the sol-gel method and assisting dip-coating technique are reported. Characterization of the TiO_2 films in their structure was carried out using XRD and Raman, finding the anatase TiO_2 structure for all the samples. Using AFM and TEM, it was possible to study nanoparticles' influence on

Resumen	topography and transmittance, decreasing the gap energy and improvement the current conduc
Palabras claves	Zn-doped TiO ₂ , Optical-propertie

de adscripción[1] Univ Juárez Autónoma Tabasco, Div Acad Mul K, Jalpa De Méndez 86205, Tabasco, México [2] Univ Juárez Autónoma Tabasco, Div Acad Ing [3] Univ Autónoma Metropolitana Iztapalapa, DepResumenBACKGROUND 4-chloropheno industrial processes. This comp its removal from wastewater dif methods have been applied for techniques with several advar reaction conditions. One of the g development of materials with a the catalytic activity and thus a its elimination in shorter periods were prepared by the hydrothe citric, and tartaric acids. The spe 23.938 and 48.058 m(2)/g and t 1.90 eV. These materials were of for the photodegradation photodegradation efficiencies a CONCLUSION The results co influence on the physicochemi catalyst synthesized using citri	Revista	JOURNAL OF CHEMICAL TEC
ISSNISSN: 0268-2575 eISSN: 1097-4660DOI10.1002/jctb.7168Título del ArtículoPhotodegradation of 4-chlorop influence of the complexing ageAutores e instituciones de adscripciónHernández-Acosta, D ^[1] ; Jacom Lemus, M ^[2] ; López-González, I (1) Univ Juárez Autónoma Tabasco, Div Acad Mul K, Jalpa De Méndez 86205, Tabasco, México [2] Univ Juárez Autónoma Tabasco, Div Acad Ing [3] Univ Autónoma Metropolitana Iztapalapa, DepResumenBACKGROUND 4-chloropheno industrial processes. This comp its removal from wastewater dif methods have been applied for techniques with several advar reaction conditions. One of the g development of materials with a the catalytic activity and thus a its elimination in shorter periods were prepared by the hydrothe citric, and tartaric acids. The spe 23.938 and 48.058 m(2)/g and t 1.90 eV. These materials were a for the photodegradation photodegradation efficiencies a CONCLUSION The results co influence on the physicochemi catalyst synthesized using citri activity at the three pH levels (3, this material presents the lower the largest specific surface area		
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[2] Univ Juárez Autónoma Tabasco, Div Acad Ing [3] Univ Autónoma Metropolitana Iztapalapa, Dep BACKGROUND 4-chloropheno industrial processes. This comp its removal from wastewater dif methods have been applied for techniques with several advar reaction conditions. One of the development of materials with a the catalytic activity and thus a its elimination in shorter periods were prepared by the hydrothe citric, and tartaric acids. The spe 23.938 and 48.058 m(2)/g and t 1.90 eV. These materials were e for the photodegradation photodegradation efficiencies a CONCLUSION The results co influence on the physicochemi catalyst synthesized using citri activity at the three pH levels (3, this material presents the lowes the largest specific surface area	de auscripcion	[1] Univ Juárez Autónoma Tabasco, Div Acad Multio
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activity at the three pH levels (3, this material presents the lowes the largest specific surface area		influence on the physicochemic
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the largest specific surface area		
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Palabras Zn-doped TiO ₂ , Optical-properti		Zn-doped TiO ₂ , Optical-propertie

Revista	BRAZILIAN JOURNAL OF POU
Volumen	24
Número	2
ISSN	ISSN: 1516-635X
	eISSN: 1806-9061
DOI	10.1590/1806-9061-2021-1553
Título del Artículo	Performance of Turkeys in Enric Access under Tropical Condition

finding roughness values lower than 1 nm and resistivity due to the decrease in porosity, which uction.

ties, Methylene-blue

CHNOLOGY AND BIOTECHNOLOGY

henol using as photocatalyst ZnFe₂O₄ spinels: ent in the photocatalytic activity

ne-Acatitla, G^[1]; García-Mendoza, C^[2]; Álvarez-R^[2]; Tzompantzi, F^[3]

tidisciplinaria Jalpa Méndez, Carretera estatal libre Villahermosa Comalcalco

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is one of the most commonly used products in ound exhibits a high chemical stability that makes ficult by conventional methods. Although diverse its elimination, photocatalysis is one of the only tages, such as nontoxic by-products and mild goals in improving this remedial technology is the dequate physicochemical properties that enhance llow the complete degradation of the pollutant or of time. RESULTS Magnetic ZnFe₂O₄ catalysts rmal method using as complexing agents oxalic, ecific surface areas of the samples were between the band gap energies were in the range of 1.55evaluated under UV light irradiation (254 nm, 2 W) of 4-chlorophenol. All samples showed round 60% after three hours of reaction at pH 3. onfirmed that the complexing agents have an cal properties of the synthesized catalysts. The c acid was the only one to exhibit a significant 5, 6). The above can be attributed to the fact that st bandgap and crystallite size values along with of all the synthesized samples. (c) 2022 Society

es, Methylene-blue

ULTRY SCIENCE

ichment Environment with Perches and Outdoor ns

Fuente de Artículos Científicos: https://jcr.clarivate.com

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Fuente de Artículos Científicos: https://jcr.clarivate.com

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Autores e instituciones de adscripción	González-Zapata, FA ^[1] ; Sangines-García, JR ^[1] ; Pinero-Vázquez, AT ^[1] ; Velázquez-Madrazo, PA ^[1] ; Itza-Ortiz, MF ^[3] ; Bello-Pérez, EV ^[4] ; Chay-Canul, AJ ^[2] ; Aguilar-Urquizo, E ^[1]
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Resumen	Heat stress compromises turkey's productivity and increase mortality mainly in the final stages of growth. This study evaluated the effect of perches and its interaction with outdoor access on turkey performance in high environment temperature humidity index (THI). Turkeys were reared in 1.75 × 5 m indoor floor pens and were fed with a standard commercial diet, offered <i>ad libitum</i> according to the productive phase. All poults were housed indoors until 62 d of age. A free-range area for a replicate of 8.75 m ² , with natural shadow, was available from 07:00 to 19:00 h. Final density was 10.33 ± 0.22 kg/m ² . The treatments were a combination of a factorial arrangement (2 × 2) with or without perches and, with or without access to the outdoors. From 10:00 and 19:00 THI was above critical level of comfort (heat stress). In indoors turkeys, feed intake (FI) decreased, and water intake increased, panting was observed, and had a significantly lower final body weight (BW) and FI than turkeys allowed outdoors (<i>p</i> <0.05). Perch availability decreased final BW and FI (<i>p</i> <0.05). Differences in weight of breast meat, wings, or thighs between treatments were negligible. In conclusion turkeys with outdoor access from 62 d of age had better performance.
Palabras claves	Heat stress, Perches use, Free range

Revista	JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY
Volumen	97
Número	11
ISSN	ISSN: 0268-2575 eISSN: 1097-4660
DOI	10.1002/jctb.7086
Título del Artículo	One-step synthesis of ZnS/ZnO using HMDA as precursor and active part for high photocatalytic hydrogen production
Autores e instituciones de adscripción	García-Mendoza, C ^[1] ; Rivera, WES ^[1] ; Álvarez-Lemus, MA ^[1] ; Jacome-Acatitla, G ^[2] ; Márquez, DMF ^[1] ; López-González, R ^[1]
	 Univ Juárez Autónoma Tabasco, Div Academ Ingn & Arquitectura, Cunduacán, Tabasco, México Univ Juárez Autónoma Tabasco, Div Academ Multidisciplinaria Jalpa Méndez, Jalpa De Méndez, México
Resumen	BACKGROUND The use of organic molecules to improve the performance of semiconductors (such as using ZnS in hydrogen production) has been widely studied. This work studies the formation of a photocatalyst formed by ZnS/ZnO anchored to an organic molecule (hexamethylenediamine) under different amounts of the organic material and its performance in hydrogen production is evaluated. RESULTS The materials were synthesized by the precipitation method, forming ZnS/ZnO composite, 3HMDA and 9HMDA materials showed flower-like structure. The 6HMDA material showed a nanotube like structure and high surface area. Likewise, the anchoring of the organic material forming stacked lamellae is confirmed. Regarding hydrogen production, the most active material was 6HMDA, which showed an excellent performance, producing 3281 mu moles after 5 h of reaction with a production rate of 12 916 mu moles h(-1) g(-1); 6HMDA

Resumen	increased the effectiveness wi 9HMDA material increased it 1. the ZnS/ZnO work together to in the material, increasing hydroge that it is possible to obtain an performance by a relatively so Chemical Industry (SCI).
Palabras claves	Catalyst Characterization, Ener

Revista	CHINESE PHYSICS B
Volumen	31
Número	4
ISSN	ISSN: 1674-1056 eISSN: 2058-3834
DOI	10.1088/1674-1056/ac248e
Título del Artículo	Nonlinear optical properties in n-t
Autores e instituciones	Noverola-Gamas, H ^[1] ; Gaggero-
de adscripción	 Univ Juárez Autónoma Tabasco, Div Acad Ing Esmeralda 8660, Cunduacán, México
	[2] Univ Autónoma Estado Morelos, Ctr Invest Ingn [3] Univ Autónoma Estado Morelos, Fac Ciencias Q
Resumen	The effects of the interlayer dista quadruple delta-doped GaAs of Particularly, the absorption coeffic were determined. In the effective Thomas-Fermi theory, the Schr subband energy levels and their variations in the nonlinear optical matrix solutions. The achieved r causes optical red-shift on non deduced that the suitably choser properties within the infrared spec far-infrared photo-detectors, his infrared lasers.
Palabras claves	Delta-doping, N-type GaAs layer

Revista	CALDASIA
Volumen	44
Número	2
ISSN	ISSN: 0366-5232
	elSSN: 357-3759
DOI	10.15446/caldasia.v44n2.90873
Título del	Morphology of Fruit and Seed, and Pregerminative Treatments of Annona
Artículo	reticulata
Autores e	Vargas-Simón, G ^[1] ; López-Méndez, D ^[1] ; Pire, R ^[2]
instituciones	[1] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Biol, Km 0-5 Carretera Villahermosa Cardenas, Villahermosa 86039,
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	Tabasco, México
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vith respect to ZnS by a factor of 4.3, while the .5 times. CONCLUSION The organic material and improve the photocatalytic activity and stability of gen production under UV light. These results show an efficient material with excellent photocatalytic simple synthesis method. (c) 2022 Society of

rgy, Photocatalysis

-type quadruple delta-doped GaAs quantum wells

o-Sager, LM ^[2]; Oubram, O ^[3]

ngn & Arquitectura, Carretera Cunduacán Jalpa de Méndez Km 1, Col La

n & Ciencias Aplicadas, Av Univ 1001, Cuernavaca 62209, Morelos, México Quim & Ingn, Av Univ 1001, Cuernavaca 62209, Morelos, México

ance on the nonlinear optical properties of n-type quantum well were theoretically investigated. efficient and the relative refraction index change e mass approach and within the framework of the nrodinger equation was resolved. Thereby, the r respective wave functions were calculated. The I properties were determined by using the density results demonstrate that the interlayer distance nlinear optical properties. Therefore, it can be en interlayer distance can be used to tune optical pectrum region in optoelectronic devices such as nigh-speed electronic-optical modulators, and

rs, Electronic structure

Fuente de Artículos Científicos: https://jcr.clarivate.com

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Resumen	of the strategies for germplasm con-servation, and, taking into account that certain pregerminative treatments may favor its germination capacity, two objectives were pursued: the morphological characterization of fruits and seeds, and the assessment of its response to pregerminative treatments. Samples were collected in two municipalities of Tabasco State, México. Dimensions of fruits and seeds were measured, and seeds were submitted to six pre-germinative treatments as follows, control (T1), mechanical scarification (T2), soaking in gibberellic acid (GA3 100 mg L-1 for 3 h) (T3), soaking in GA3 (100 mg L-1 for 6 h) (T4), soaking in GA3a 200 mg L-1 for 3 h (T5), and mechanical scarification + soaking in GA3 (100 mg L-1 for 24 h) (T6). The germination percentage (GP) and rate (GR) were evaluated in a completely randomized design with five replications. The fruit averaged 422.2 g, with 116.8 seeds. The pulp is 69.22 % of the total fruit weight. Epigeal cryptocotylar germination started on day 17 and reached its maximum (76.6 %) on day 31. The mechanical scarification (T2) produced the highest values of GP, and GR, while the use of GA3 tended to result in lower values as the concentrations and soaking times of the product increased
Palabras claves	Epigeal cryptocotylar, Germination rate, Gibberellic acid

Revista	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH
Volumen	19
Número	11
ISSN	1660-4601
DOI	10.3390/ijerph19116953
Título del Artículo	Mental Health Impact of the COVID-19 Pandemic on Mexican Population: A Systematic Review
Autores e instituciones de adscripción	Hernández-Díaz, Y ^[1] ; Genis-Mendoza, AD ^[2] ; Ramos-Méndez, MA ^[3] ; Juárez- Rojop, IE ^[4] ; Tovilla-Zárate, CA ^[5] ; González-Castro, TB ^[1] ; López-Narváez, ML ^[5] ; Nicolini, H ^[2]
	 [1] Univ Juárez Autónoma Tabasco, Div Acad Multidisciplinaria Jalpa De Méndez, Jalpa De Méndez 86205, México [2] Inst Nacl Med Genom, Lab Genom Enfermedades Psiquiatr & Neurodegenerat, México City 14610, DF, México [3] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Salud, Beautiful Villa 86100, México [4] Univ Juárez Autónoma Tabasco, Div Acad Multidisciplinaria Comalcalco, Comalcalco 86040, México [5] Hosp Chiapas Dr Jesús Gilberto Gómez Maza, Tuxtla Gutiérrez 29000, México
Resumen	The COVID-19 pandemic has had an impact on mental health in the general population, but no systematic synthesis of evidence of this effect has been undertaken for the Mexican population. Relevant studies were identified through the systematic search in five databases until December, 2021. The selection of studies and the evaluation of their methodological quality were performed in pairs. The Newcastle-Ottawa Scale (NOS) was used for study quality appraisal. The protocol of this systematic review was registered with PROSPERO (protocol ID: CRD42021278868). This review included 15 studies, which ranged from 252 to 9361 participants, with a total of 26,799 participants. The findings show that COVID-19 has an impact on the Mexican population's mental health and is particularly associated with anxiety, depression, stress and distress. Females and younger age are risk factors for development mental health symptoms. Mitigating the negative effects of COVID-19 on mental health should be a public health priority in México.
Palabras claves	Depression, Stress, Anxiety

Revista	MAMMALIA
Volumen	86
Número	5
ISSN	ISSN: 0025-1461 eISSN: 1864-1547
DOI	10.1515/mammalia-2021-0149
Título del Artículo	Landscape patterns in the occ primary prey species in a disturb
Autores e instituciones de adscripción	Friedeberg-Gutiérrez, DB ^[2,3] ; MacKenzie, D ^[4] ; de la Cruz, AJ ^[1] Univ Juárez Autónoma Tabasco, Div Acad Cienci ^[2] Univ Autónoma Querétaro, Lab Zool, Fac Cienci ^[3] Panthera México, Stirling Dickinson 27, Guanaju ^[4] Proteus Wildlife Res Consultants, POB 5193, Du
Resumen	In order to prioritize the conserva (<i>Panthera onca</i>), it is of utmost in human disturbances, habitat availability. We assessed the or most common prey species throu Maya in southern México: arm <i>narica</i>), paca (<i>Cuniculus paca</i>), collared peccary (<i>Dicotyles tajac</i> occupancies onto a 5993 km ² la We averaged the best prey mode deer had the highest average oc lowest with 0.14 \pm 0.04. The are 0.35 \pm 0.07 and the strongest pre- of collared peccary occupancy. T that predator distribution is largely midst of degraded habitats, an protection plans for prey species
Palabras claves	Carnivore ecology, Conservation

Revista	BEHAVIOURAL PHARMACOL
Volumen	33
Número	1
ISSN	ISSN: 0955-8810 eISSN: 1473-5849
DOI	10.1097/FBP.00000000000066
Título del Artículo	Isobolographic analysis of antino paracetamol after simultaneous
Autores e instituciones de adscripción	Martínez-Martínez, MD ^[1] ; Parra- JE ^[1] [1] Univ Juárez Autónoma Tabasco, Ctr Invest, La A, Villahermosa 86150, Tabasco, México
Resumen	This study was designed to ch additive, or synergistic) after sim (intraperitoneal plus peripheral lo drugs (NSAID) ketorolac and ind effects of locally or intraperitone simultaneous administration by were evaluated using the format the number of flinches of the inju-

cupancy of jaguars (<i>Panthera onca</i>) and their bed region of the Selva Maya in México
; López-González, CA ^[2] ; Lara-Díaz, NE ^[2] ; J ^[1] ; Juárez-López, R ^[1] ; Hidalgo-Mihart, M ^[1]
encias Biol, Villahermosa, Tabasco, México
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Dunedin, New Zealand
vation and management efforts to protect laguars

ation and management efforts to protect jaguars importance to determine their tolerance in face of modifications and varying degrees of prey occupancy probability of jaguars and five of their bughout a heterogeneous landscape in the Selva madillo (Dasypus novemcinctus), coati (Nasua white-tailed deer (Odocoileus virginianus), and acu). Additionally, we projected prey and Jaguar andscape based on the habitat type in the area. dels ranked by QAICc and found that white-tailed ccupancy probability of 0.72 ± 0.06 and paca the average occupancy probability for jaguars was redictor of jaguar occupancy was a positive effect These findings support previous studies that show ely influenced by their prey availability, even in the nd underlies the essential need to incorporate s in jaguar conservation strategies.

n, Jaguar

.OGY

61 nociceptive effect of ketorolac, indomethacin, and peripheral local and systemic administration

a-Flores, LI^[1]; Baeza-Flores, GD^[1]; Torres-López,

ab Mecanismos Dolor, Div Acad Ciencias Salud, Av Gregorio Méndez 2838-

haracterize the type of interaction (subadditive, multaneous administration by two different routes local) of the same nonsteroidal anti-inflammatory ndomethacin or paracetamol. The antinociceptive eally delivery of NSAIDs or paracetamol, and the the two routes at fixed-dose ratio combination alin test. Pain-related behavior was quantified as jected paw. Isobolographic analysis was used to

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Resumen	characterize the interaction between the two routes. ED30 values were estimated for individual drugs, and isobolograms were constructed. Ketorolac, indomethacin, or paracetamol and fixed-dose ratio combinations produced a dose-dependent antinociceptive effect in the second but not in the first phase of the formalin test. The analysis of interaction type after simultaneous administration by the two routes the same NSAID or paracetamol (on basis of their ED30), revealed that the simultaneous administration of ketorolac or paracetamol was additive and for indomethacin was synergistic. Since the mechanisms underlying the additive effect of ketorolac or paracetamol and the synergistic effect of indomethacin were not explored; it is possible that the peripheral and central mechanism is occurring at several anatomical sites. The significance of these findings for theory and pain pharmacotherapy practice indicates that the combination of one analgesic drug given simultaneously by two different administration routes could be an additive or it could lead to a synergistic interaction.
Palabras claves	Formalin test, Nonsteroidal anti-inflammatory drugs, Paracetamol

Revista	ITALIAN JOURNAL OF ANIMAL SCIENCE
Volumen	21
Número	1
ISSN	ISSN: 1594-4077
	elSSN: 1828-051X
DOI	10.1080/1828051X.2021.2019621
Título del Artículo	Is visceral organ size related to feed efficiency in tropical hair sheep?
Autores e instituciones de adscripción	Arce-Recinos, C ^[1] ; Ramos-Juárez, JA [1]; Alarcón-Zúñiga, B ^[2] ; Vargas-Villamil, LM ^[1] ; Aranda-Ibañez, EM ^[1] ; da Costa, RLD ^[3] ; Chay-Canul, AJ ^[4] [1] Colegio Postgraduados, Programa Doctorado Ciencias Agricolas Trop, Cardenas, México [2] Univ Autónoma Chapingo, Dept Zootecnia, Posgrad Prod Anim, Texcoco, Estado De Mexic, México [3] Inst Zootecnia, Sao Paulo, Brazil [4] Univ Juárez Autónoma Tabasco, Div Academ Ciencias Agr, Centro, México
Resumen	The residual feed intake (RFI) and residual intake and gain (RIG) are indices that measure ruminant feed efficiency. Their application has become alternatives to improve the profitability of intensive lamb production systems. This study aimed to evaluate the accuracy of RFI and RIG to measure the non-carcase organ size and cavitary fat of lambs. Thirty non-castrated male lambs were fed for 92 days and slaughtered, and non-carcase organs were weighed. RFI and RIG were classified in low, medium and high efficiency groups, and correlated to carcase and non-carcase organ size. The average RFI values were 0.07, 0.00, and -0.07 kg DM/d and the RIG values were 1.86, -0.20 , and -1.91 , for high, medium and low, respectively. Low-RFI lambs had lower ($p < .05$) dry matter intake (DMI) and percentage of DMI standardised by metabolic weight. High-RIG lambs had a higher feed conversion ratio ($p \le .05$) and tended ($p < .10$) towards higher average dairy gain. The efficient lambs (low-RFI and high-RIG) had a higher heart weight ($p \le .05$). Trends ($p < .10$) towards higher blood volume and lower RFI. Lambs classified as low-RFI and high-RIG had larger hearts, which could be related to improved cardiovascular performance and feed efficiency.
Palabras claves	Residual feed intake, residual intake and gain, visceral organ mass

Revista	FOOD BIOSCIENCE
Volumen	47
Número	n/a
ISSN	ISSN: 2212-4292 eISSN: 2212-4306
DOI	10.1016/j.fbio.2022.101669
Título del	Influence of the starter culture on
Artículo	gas chromatography-mass spect
Autores e instituciones de adscripción	Álvarez-VillaGómez, KG ^[1] ; Lede Robles-Olvera, VJ ^[1] ; García-Ala [1] TecNM Inst Tecnol Veracruz, Unidad Invest & D
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	[4] Reina Sofia Univ Hosp, Maimonides Inst Biomed
	[5] Carlos III Inst Hlth, CIBERFES, Consortium Bior
Resumen	Cocoa is the main component quality largely depends on the Traditionally, fermentation take microbiota; however, the process the final product. In this study, we the profile of volatiles during fe cocoa. Volatiles were also analy after drying, roasting, and conchin profile in cocoa fermented with s content of alcohols (40%) and al (<1%) as compared to endogeno aldehydes <0.5%). Additionally, in the inoculated samples after p
Palabras	Cocoa beans, Starter culture, Co

Revista	FRONTIERS IN PSYCHIATRY
Volumen	13
Número	n/a
ISSN	1664-0640
DOI	10.3389/fpsyt.2022.912021
Título del	Increased Levels of Cortisol in
Artículo	with the number of Suicide Atten
Autores e instituciones de adscripción	Genis-Mendoza, AD ^[1,2] ; Dionisio Zárate, CA ^[5] ; Juárez-Rojop, IE Nicolini, H ^[1]
	[1] Inst Nacl Med Genom, Lab Genom Enfermedad
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	[5] Univ Juárez Autónoma Tabasco, Div Academ M
Resumen	Background: Abnormalities in
	have been reported in individuals
	to evaluate cortisol levels in peri
	suicide attempt.
	Methods: Cortisol concentration
	ELISA technique. Suicide atter
	Severity Rating Scale, while
	Depression Rating Scale.
	Depression Rating Ocale.

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the volatile profile of processed cocoa beans by trometry in high resolution mode

esma-Escobar, CA ^[3],4,5]; Priego-Capote, F ^[3,4,5]; amilla. P^[2]

Desarrollo Alimentos, Miguel Ángel de Quevedo 2779, Veracruz, Ver, México & Livestock Sci, Villahermosa Teapa Km 25, La Huasteca 86280, Tabasco,

oanales, Cordoba, Spain ed Res IMIBIC, Madrid, Spain med Res Frailty & Hlth Ageing, Granada, Spain

of chocolate. It is widely accepted that cocoa processing, especially the fermentation step. es place spontaneously by the endogenous ss can lead to poor quality and heterogeneity of e evaluated the influence of the starter culture on ermentation of commercial volumes of Mexican zed in post-fermented cocoa samples obtained ing. Our results revealed a most desirable volatile starter culture, mainly due to the higher relative aldehydes (3.5%), but also due to a lower acidity ous fermentation (acids, 65%; alcohols, 2%; and it is remarkable, the higher content of pyrazines processing.

ocoa fermentation

Individuals with Suicide Attempt and its relation mpts and Depression

io-García, DM^[3]; González-Castro, TB^[4]; Tovilla-^[3]; López-Narváez, ML ^[6]; Castillo-Avila, RG ^[3];

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the hypothalamic-pituitary-adrenal axis (HPA) Is with suicide behavior. The aim of the study was ripheral plasma of individuals with more than one

ns in peripheral plasma were measured using the mpts were evaluated by the Columbia Suicide depression was evaluated by the Hamilton

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Resumen	Results: We found elevated cortisol levels in the suicide attempt group when compared with healthy controls ($F = 7.26$, p -value = 0.008), but no statistical differences with the psychiatric diseases group ($F = 1.49$, p -value = 0.22). Cortisol levels were higher in individuals with depression ($F = 8.99$, $P = 0.004$) and in individuals with two or more suicide attempts ($F = 13.56$, $P < 0.001$). Conclusions: Cortisol levels are increased in individuals who attempt suicide and higher of cortisol concentrations in plasma regard to depression and more attempts of suicide.
Palabras claves	Suicide attempt, cortisol, HPA axis

Revista	FISHES
Volumen	7
Número	3
ISSN	2410-3888
DOI	10.3390/fishes7030127
Título del Artículo	Inclusion of Mannan-Oligosaccharides in Diets for Tropical Gar <i>Atractosteus tropicus Larvae</i> : Effects on Growth, Digestive Enzymes, and Expression of Intestinal Barrier Genes
Autores e instituciones	Maytorena-Verdugo, CI ^[1,2] ; Peña-Marín, ES ^[1,3] ; Álvarez-VillaGómez, CS ^[1] ; Pérez-Jiménez, GM ^[1] ; Sepulveda-Quiroz, CA [¹]; Álvarez-González, CA ^[1]
de adscripción	[1] Univ Juárez Autónoma Tabasco, Lab Fisiol Recursos Acuat DACBIOL, Carretera Villahermosa Cardenas Km 0-5, Villahermosa 86139, Tabasco, México
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Resumen	Mannan-oligosaccharides (MOS) are non-digestible carbohydrates, and their use in aquaculture as prebiotics is well documented. The objective of this work was to test whether MOS supplemented in the diet of <i>A. tropicus</i> larvae (2, 4, and 6 g kg ⁻¹) influence growth parameters, the activity of digestive enzymes, and the expression of genes related to the intestinal barrier. The highest total length was observed in larvae fed 6 g kg ⁻¹ MOS compared to control larvae. Trypsin activity increased with the addition of MOS to the diets, but leucine aminopeptidase activity only increased with 6 g kg ⁻¹ MOS. Lipase and α -amylase activities increased in larvae fed with 2 and 4 g kg ⁻¹ MOS. The expression of <i>zo-2</i> was higher with the 6 g kg ⁻¹ MOS treatment. The <i>cl-3</i> transcripts were lower with 2 g kg ⁻¹ MOS but higher with 6 g kg ⁻¹ MOS. All tested concentrations of MOS increased the expression of <i>muc-2</i> . In this study, incorporating mannan- oligosaccharides into the diet of <i>A. tropicus</i> larvae had a positive effect, and the concentration of 6 g kg ⁻¹ produced the best results. Therefore, including this prebiotic in the diets for the culture of <i>A. tropicus</i> larvae is suitable.
Palabras claves	<i>cl-3</i> ; Leucine Aminopeptidase; <i>MUC-2</i> ;

Revista	JOURNAL OF FOOD AND NUTRITION RESEARCH
Volumen	61
Número	1
ISSN	ISSN: 1336-8672 eISSN: 1338-4260
DOI	N/A
Título del Artículo	In vitro antioxidant and alpha-amylase inhibitory activity of extracts from peel and pulp of <i>Chrysophyllum cainito</i> cultivated in the Mexican southeast

Ceferino, JG ^[1] ; Ovando, MAM ^{[2} ^[1] [1] Juárez Autonomous Univ Tabasco, Food Bio México [2] Chiapas Univ Sci & Arts, Fac Nutr & Food Sci, I [3] Natl Inst Forestry Agr & Livestock Res, Moco Yucatán, México [4] Autonomous Univ Yucatán, Food Sci Lab, North
Four extracts of <i>Chrysophyllum</i> of pulp (EEPC), ethanolic extract and aqueous extract of peel (EA well as antioxidant activity and it these extracts. EECC showed a flavonoids compared to the pu (expressed as gallic acid equival catechin equivalents), respective radical scavenging of 78.8 +/- picrilhidrazyl (DPPH) assay a ethylbenzothiazoline-6-sulfonic inhibition index on the digesti <i>Chrysophyllum cainito</i> fruit was and inhibitory activity of amylo mellitus and its complications.
Chlorogenic Acid, Fruit, Leaves

Revista	MOLECULES
Volumen	27
Número	12
ISSN	1420-3049
DOI	10.3390/molecules27123707
Título del	Impact of the Cooking Proce
Artículo	tetragonus, a Plant Traditionally
Autores e instituciones de adscripción	Cornejo-Campos, J ^[1] ; Gómez-A Herrera, OJ ^[3] ; Chávez-Murillo, García, E ^[6]
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	[5] Univ Chile, Dept Quim, Fac Ciencias, Casilla 65
	[6] Inst Politecn Nacl, Ctr Estudios Cientif & Tecnol
Resumen	Acanthocereus tetragonus (L.) H in some Mexican communities. tetragonus provide crude protein work, we analyzed the phytoche and the antioxidant activity of assess its functional metabolite profile was analyzed using U coupled to High-Resolution Ma
	MS/MS). Under the proposed of

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Food Lab, North Cent St 4a & 5a, S-N, Chiapas 30580, México cocha Expt Field, Km 25 Old Highway Mérida Motul S-N, Mococha 97454,

th Peripheral Km 33-5,13615, Mérida 97203, Yucatán, México

cainito L. were made, namely, ethanolic extract ct of peel (EECC), aqueous extract of pulp (EAPC) ACC). The content of phenols and flavonoids, as in vitro antidiabetic activity, were determined for a higher content of phenolic compounds and total ulp extracts, specifically 5.16 +/- 0.13 g.kg (-1) alents) and 4.71 +/- 0.18 g.kg (-1) (expressed as vely. Regarding the antioxidant activity, EECC free 0.1 % was determined by the 2,2-diphenyl-1and 80.3 +/- 0.1 % by the 2,2'-azino-bis (3acid) (ABTS) assay. EECC had the highest tive enzyme a-amylase (87.7 +/- 8.3 %). The found to possess a free radical donor capacity olytic enzyme, important in control of diabetes

ess on Metabolite Profiling of Acanthocereus Consumed in México

Aguirre, YA^[1]; Velázquez-Martínez, JR^[2]; Ramos-CE^[3]; Cruz-Sosa, F^[4]; Areche, C^[5]; Cabañas-

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Hummelinck is used as an alternative food source It has been shown that the young stems of A. n, fiber, and essential minerals for humans. In this nemical profile, the total phenolic content (TPC), cooked and crude samples of A. tetragonus to te contribution to humans. The phytochemical Ultra-High-Performance Liquid Chromatography lass Spectrometry (UHPLC-PDA-HESI-Orbitrapconditions, 35 metabolites were separated and Enero 2024

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Resumen	tentatively identified. Of the separated metabolites, 16 occurred exclusively in cooked samples, 6 in crude samples, and 9 in both crude and cooked samples. Among the detected compounds, carboxylic acids, such as threonic, citric, and malic acids, phenolic acids, and glycosylated flavonoids (luteolin-O-rutinoside) were detected. The TPC and antioxidant activity were analyzed using the Folin-Ciocalteu method and the 2,2-diphenyl-1-picrylhydrazyl (DPPH) free radical inhibition method, respectively. The TPC and antioxidant activity were significantly reduced in the cooked samples. We found that some metabolites remained intact after the cooking process, suggesting that <i>A. tetragonus</i> represents a source of functional metabolites for people who consume this plant species.
Palabras claves	Marginalized Communities, Secondary Metabolites, Cacti

Revista	SUSTAINABILITY
Volumen	14
Número	10
ISSN	2071-1050
DOI	10.3390/su14105877
Título del	Harnessing Offshore Wind Energy along the Mexican Coastline in the Gulf of
Artículo	México-An Exploratory Study including Sustainability Criteria
Autores e instituciones de adscripción	Gálvez, GH [1]; Lievano, DC ^[1] ; Martínez, OS ^[1] ; Danguillecourt, OL ^[2] ; Portela, JRD ^[3] ; Narcia, AT ^[1] ; Flores, RS ^[4] ; González, LP ^[5] ; Perea-Moreno, AJ ^[6] ; Hernández-Escobedo, Q ^[7] [1] Univ Popular Chontalpa, Carretera Cárdenas Huimanguillo Km 2 Rancheria Pa, Cardenas 86556, Tabasco, México [2] Univ Ciencias & Artes Chiapas, Tuxtla Gutiérrez 29000, Chiapas, México [3] Univ Istmo, Campus Tehuantepec, Ciudad Univ S-N, Tehuantepec 70760, Oaxaca, México [4] Inst Nacl Elect & Energias Limpias, Calle Reforma 113, Cuernavaca 62490, Morelos, México [5] Univ Juárez Autónoma Tabasco, Div Ciencias Biol, Carretera Villahermosa Cardenas Km 0-5 S-N, Villahermosa 86150, Tabasco, México [6] Univ Cordoba, Dept Fis Aplicada Radiol & Med Fis, Edificio Albert Einstein, Campus Rabanales, Cordoba 14071, Spain [7] UNAM, Escuela Nacl Estudios Super, Unidad Juriquilla, Querétaro 76230, México
Resumen	México has more than 40 years of researching, investing, and obtaining electric power through wind energy. Within the country, there are highly windy areas, such as the Isthmus of Tehuantepec or the state of Tamaulipas, and there are about 2500 MW installed and 70,000 MW tested, all onshore. There are still no offshore wind farms in México, despite having two main coasts, the East and the West, with the Gulf of México and the Pacific Ocean, respectively. Although the Mexican coastal states of the Gulf of México are Tamaulipas, Veracruz, Tabasco, Campeche, and Yucatán, this work focuses on the study and feasibility of offshore wind energy use on the coasts of the states of Tabasco, Campeche, and Yucatán. This is because of the availability of data in that region; however, sustainability criteria that can be used in other regions are also presented. MERRA-2 and ERA5 data were used employing WAsP and Windographer software. It was found that the capacity factor in the area of Tabasco, Campeche, and Yucatán is 32%, 37%, and 46%. It can be noted that, in the WF100% scenario, each of the wind farms could contribute more than 35% of the region's electricity consumption; those of Campeche and Yucatán stand out with contributions of more than 70%.
Palabras claves	Wind Energy; Offshore; Sustainability

Revista	ACTA BOTÁNICA MEXICANA
Volumen	129
Número	n/a
ISSN	2448-7589
DOI	https://doi.org/10.21829/abm129.
Título del	Germination, initial growth and
Artículo	Tabasco, México
Autores e instituciones	Custodio-Rodríguez, JP ^[1] ; Varga
de adscripción	[1] Univ Juárez Autónoma Tabasco, Div Acad Cier Tabasco, México
Resumen	Background and Aims: Castillassociated with different Prehispapurposes. It is considered an error This work aimed to evaluate the elastica. Methods: Seeds from 30 trees with the start of the germination was depercentage of germination was depercentage of germination was destablished, every 45 days. Sterre evaluated. Absolute (RGA) and reassociating RGA from Lt against the plants lasted 205 days. Key results: Germination was defined and 8.2 mm (±0.55), respectively. statistical differences. According cm day-1 for each millimeter of irrest germination. Different stages of time (205 days) were obtained. being attributable to the solar rade producing C. elastica plants, reasonal states and states an
Delehaer	terms of its average Lt and Db.
Palabras	Eophylls, Growth Rates, Phenolo
claves	

Revista	NUTRIENTS
Volumen	14
Número	2
ISSN	2072-6643
DOI	10.3390/nu14020394
Título del Artículo	Genome-Wide Analysis of Disord
Autores e instituciones de adscripción	Martínez-Magaña, JJ ^[1] ; Hernán Sarmiento, E ^[3] ; Camarena, B Velázquez, JA ^[5] ; Medina-Mora, Tovilla-Zárate, CA ^[6] ; Juárez-Roj
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.2022.1857 morphology of Castilla elastica (Moraceae) in

as-Simón, G^[1]; Contreras-Sánchez, WM^[1]

encias Biol, Carretera Villahermosa Cardenas Km 0-5, Villahermosa 86039,

illa elastica is a Mesoamerican native species panic cultures that used their latex for ceremonial emblematic tree, useful in agroforestry systems. germination, initial growth and morphology of C.

were collected and planted in polyethylene trays. determined by the sprouting of the epicotyls. The quantified, and three periods of evaluation were m length (Lt) and basal stem diameter (Db) were relative (RGR) growth rates were also obtained. ests were made, and a regression was calculated st some climatic variables. Growth evaluation of

btained in 100%, the process initiated at 12 days. average (±1 SD) Lt and Db of 36.5 cm (±5.27) /. The three evaluation periods showed significant g to regression models, C. elastica grows 0.188 increase in Db.

recently harvested seeds guarantees 100% development of the seedling depending on the The RGR decreased after the first evaluation, diation. This work demonstrated the feasibility of aching the minimal required quality standards in

ogy,

dered Eating Behavior in the Mexican Population

ndez, S^[2]; García, AR^[3]; Cardoso-Barajas, V^[3]; ^[2,3]; Caballero, A ^[4]; González, L ^[4]; Villatoro-ME^[5]; Bustos-Gamino, M^[5]; Fleiz-Bautista, C^[5]; ojop, IE^[7]; Nicolini, H^[1]; Genis-Mendoza, AD^[1]

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idad Trastornos Alimenticios, México City 14370, DF, México tidisciplinaria Comalcalco, Comalcalco 86654, México Salud, Villahermosa 86100, Tabasco, México

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Revista	PLANTS-BASEL
Volumen	11
Número	13
ISSN	2223-7747
DOI	10.3390/plants11131739
Título del	Eupatorin and Salviandulin-A, w
Artículo	from Salvia lavanduloides Kunth
Autores e instituciones de adscripción	González-Cortazar, M ^[1] ; Salina: Ramos, DC ^[3] ; Zamilpa, A ^[1] ; Jim Fitz, P ^[5] ; Castrejon-Salgado, R
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	62550, Morelos, México
Resumen	This study describes the antimicr obtained from the leaves of 3 macerated with three solvents acetate (SI-AcOEt), and dichlord and SID-3), and isolated comp 3,7,13(16),14-tetraene-17,12R:1 (3)) were evaluated as antimic
	bacteria and the fungus <i>Candia</i> concentration (MIC) and the ant 12-O-tetradecanoylforbol (TPA). fractions showed the highest a showed good activity against <i>Ps</i> while the anti-inflammatory activ
	presented an inhibition of 62, 44772%.
Palabras claves	Salvia lavanduloides; minimum i O-tetradecanoylforbol (TPA)

Revista	SCIENTIFIC REPORTS
Volumen	12
Número	1
ISSN	2045-2322
DOI	10.1038/s41598-022-12868-0
Título del	Estimation of milk yield based
Artículo	artificial neural networks
Autores e instituciones de adscripción	Ángeles-Hernández, JC ^[1] ; Cast Martínez, JA ^[1] ; Chay-Canul, AJ ^[1] Univ Autónoma Estado de Hidalgo, Inst Ciencia ^[2] Univ Autónoma Estado de Hidalgo, Inst Ciencia ^[3] Univ Juárez Autónoma Tabasco, Div Acad Cien ^[4] Univ Copenhagen, Fac Hlth & Med Sci, Dept Ve
Resumen	Udder measures have been use methods of estimation. Artificial non-linear relationships between

Resumen	Alterations in eating behavior characterized eating disorders (ED). The genetic factors shared between ED diagnoses have been underexplored. The present study performed a genome-wide association study in individuals with disordered eating behaviors in the Mexican population, blood methylation quantitative trait loci (blood-meQTL), summary data-based Mendelian randomization (SMR) analysis, and in silico function prediction by different algorithms. The analysis included a total of 1803 individuals. We performed a genome-wide association study and blood-meQTL analysis by logistic and linear regression. In addition, we analyzed in silico functional variant prediction, phenome-wide, and multi-tissue expression quantitative trait loci. The genome-wide association study identified 44 single-nucleotide polymorphisms (SNP) associated at a nominal value and seven blood-meQTL at a genome-wide threshold. The SNPs show enrichment in genome-wide associations of the metabolic and immunologic domains. In the in silico analysis, the SNP rs10419198 (<i>p</i> -value = 4.85×10^{-5}) located on an enhancer mark could change the expression of <i>PRR12</i> in blood, adipocytes, and brain areas that regulate food intake. Additionally, we found an association of DNA methylation levels of <i>SETBP1</i> (<i>p</i> -value = 6.76×10^{-4}) and <i>SEMG1</i> (<i>p</i> -value = 5.73×10^{-4}) by SMR analysis. The present study supports the previous associations of genetic variation in the metabolic domain with ED.
Palabras claves	Feeding and eating disorder, Genome-wide association study, Methylation quantitative trait loci

Revista	NANOMATERIALS
Volumen	12
Número	12
ISSN	2079-4991
DOI	10.3390/nano12121969
Título del	Facile Synthesis of ZnO-CeO ₂ Heterojunction by Mixture Design and Its
Artículo	Application in Triclosan Degradation: Effect of Urea
Autores e instituciones de adscripción	Caceres-Hernández, A ^[1] ; Torres-Torres, JG ^[1] ; Silahua-Pavón, A ^[1] ; Godavarthi, S ^[2] ; García-Zaleta, D ^[3] ; Saavedra-Díaz, RO ^[1] ; Tavares-Figueiredo, R ^[4] ; Cervantes-Uribe, A ^[1] [1] Univ Juárez Autónoma Tabasco, Ctr Invest Ciencia & Tecnol Aplicada Tabasco CICT, Lab Nanomat Catalit Aplicados Desarrollo Fuentes, Km1 carretera Cunduacán Jalpa Méndez, Cunduacán 86690, TB, México [2] Univ Juárez Autónoma Tabasco, Investigadoras & Investigadores México, Div Acad Ciencias Bas, Villahermosa 86690, Tabasco, México [3] IUniv Juárez Autónoma Tabasco, Div Acad Multidisciplinaria Jalpa Méndez, Carretera Cunduacán Jalpa Méndez, Km 1, Col
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Resumen	In this study, simplex centroid mixture design was employed to determine the effect of urea on ZnO-CeO. The heterojunction materials were synthesized using a solid-state combustion method, and the physicochemical properties were evaluated using X-ray diffraction, nitrogen adsorption/desorption, and UV-Vis spectroscopy. Photocatalytic activity was determined by a triclosan degradation reaction under UV irradiation. According to the results, the crystal size of zinc oxide decreases in the presence of urea, whereas a reverse effect was observed for cerium oxide. A similar trend was observed for ternary samples, i.e., the higher the proportion of urea, the larger the crystallite cerium size. In brief, urea facilitated the co-existence of crystallites of CeO and ZnO. On the other hand, UV spectra indicate that urea shifts the absorption edge to a longer wavelength. Studies of the photocatalytic activity of TCS degradation show that the increase in the proportion of urea favorably influenced the percentage of mineralization.
Palabras claves	ZnO; CeO ₂ ; Heterojunction

with Antimicrobial and Anti-Inflammatory Effects h Leaves

as-Sánchez, DO^[2,3]; Herrera-Ruiz, M^[1]; Románnénez-Ferrer, E^[1]; Blé-González, EA^[4]; Álvarez-^[6]; Pérez-García, MD ^[1]

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crobial and anti-inflammatory effects from extracts Salvia lavanduloides. The plant material was of ascending polarity (n-hexane (SI-Hex), ethyl romethane (SI-D)). The extracts, fractions (SID-2 pounds (15,16-epoxy-10-β-hydroxy-neo-cleroda-18,19-diolide (1), salviandulin A (2), and eupatorin icrobials against Gram-negative, Gram-positive ida albicans (Ca) using the minimum inhibitory ti-inflammatory activity induced by 13-acetate of . SI-D and SI-AcOEt extracts, SID-2 and SID-3 antimicrobial activity. The isolated compounds Pseudomonas aeruginosa with a MIC < 2 μg/mL, vity, the SI-Hex, SI-D extracts, and SID-3 fraction 15 and 61%, respectively, while (2) 70% and (3)

inhibitory concentration (MIC); 13-acetate of 12-

on udder measures of Pelibuey sheep using

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ed to assess milk yield of sheep through classical I neural networks (ANN) can deal with complex en input and output variables. In the current study,

Enero 2024

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Fuente de Artículos Científicos: https://jcr.clarivate.com

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Resumen	ANN were applied to udder measures from Pelibuey ewes to estimate their milk yield and this was compared with linear regression. A total of 357 milk yield records with its corresponding udder measures were used. A supervised learning was used to train and teach the network using a two-layer ANN with seven hidden structures. The globally convergent algorithm based on the resilient backpropagation was used to calculate ANN. Goodness of fit was evaluated using the mean square prediction error (MSPE), root MSPE (RMSPE), correlation coefficient (r), Bayesian's Information Criterion (BIC), Akaike's Information Criterion (AIC) and accuracy. The 15-15 ANN architecture showed that the best predictive milk yield performance achieved an accuracy of 97.9% and the highest values of r(2) (0.93), and the lowest values of MSPE (0.0023), RMSPE (0.04), AIC (- 2088.81) and BIC (- 2069.56). The study revealed that ANN is a powerful tool to estimate milk yield when udder measures are used as input variables and showed better goodness of fit in comparison with classical regression methods.
Palabras claves	Multiple Linear-Regression, Awassi Sheep, Prediction

Revista	FOODS
Volumen	11
Número	10
ISSN	2304-8158
DOI	10.3390/foods11101396
Título del	Estimation of Carcass Tissue Composition from the Neck and Shoulder
Artículo	Composition in Growing Blackbelly Male Lambs
Autores e instituciones de adscripción	Gastelum-Delgado, MA ^[1] ; Aguilar-Quiñonez, JA ^[1] ; Arce-Recinos, C ^[2] ; García- Herrera, RA ^[2] ; Macías-Cruz, U ^[3] ; Lee-Rángel, HA ^[4] ; Cruz-Tamayo, AA ^[5] ; Ángeles-Hernández, JC ^[6] ; Vargas-Bello-Pérez, E ^[7,8] ; Chay-Canul, AJ ^[2] [1] Univ Autónoma Sinaloa, Fac Agron, Km 17-5 Carretera Culiacan El Dorado, Culiacan 80000, Sinaloa, México [2] Univ Juárez Autónoma Tabasco, Div Acad Ciencias Agr, Carretera Villahermosa Teapa, Km 25, Villahermosa 86280, Tabasco, México [3] Univ Autónoma Baja California, Inst Ciencias Agr, Ejido Nuevo Leon S-N, Mexicali 21705, Baja California, México [4] Univ Autónoma San Luis Potosí, Ctr Biociencias, Fac Agron & Vet, Tulancingo De Bravo 78000, San Luis Potosí, México [5] Univ Autónoma Campeche, Fac Ciencias Agr, Escarcega 24350, Campeche, México [6] Univ Autónoma Estado Hidalgo, Inst Ciencias Agr, Av Univ Km 1, Tulancingo De Bravo 43600, Hidalgo, México [7] Univ Copenhagen, Fac Hlth & Med Sci, Dept Vet & Anim Sci, Gronnegardsvej 3, DK-1870 Frederiksberg C, Denmark [8] Univ Reading, Sch Agr Policy & Dev, Dept Anim Sci, POB 237, Reading RG6 6EU, Berks, England
Resumen	This study was designed to develop predictive equations estimating carcass tissue composition in growing Blackbelly male lambs using as predictor variables for tissue composition of wholesale cuts of low economic value (i.e., neck and shoulder). For that, 40 lambs with 29.9 ± 3.18 kg of body weight were slaughtered and then the left half carcasses were weighed and divided in wholesale cuts, which were dissected to record weights of fat, muscle, and bone from leg, loin, neck, rib, and shoulder. Total weights of muscle (CM), bone (CB) and fat (CF) in carcass were recorded by adding the weights of each tissue from cuts. The CM, CF and CB positively correlated (p < 0.05; $0.36 \le r \le 0.86$), from moderate to high, with most of the shoulder tissue components, but it was less evident (p ≤ 0.05 ; $0.32 \le r \le 0.63$) with the neck tissue composition. In fact, CM did not correlate with neck fat and bone weights. Final models explained (p < 0.01) 94, 92 and 88% of the variation observed for CM, CF and CB, respectively. Overall, results showed that prediction of carcass composition from shoulder (shoulder) tissue composition is a viable option over the more accurate method of analyzing the whole carcass.
Palabras claves	Carcass muscle; Carcass fat; Carcass bone;

Revista	PLANTS-BASEL
Volumen	11
Número	3
ISSN	2223-7747
DOI	10.3390/plants11030300
Título del	Ellagitannin, Phenols, and Flavo
Artículo	(Euphorbiaceae)
Autores e instituciones de adscripción	Ble-González, EA ^[1] ; Gómez-Riv Lobato-García, CE ^[1] ; Álvarez-Fit MD ^[2] ; Bugarin, A ^[4] ; González-C
	[1] Univ Juárez Autónoma Tabasco, Div Acad Cie Tabasco, México
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	[3] Univ Autónoma Guerrero, Catedra CONACyT, La
	[4] Florida Gulf Coast Univ, Dept Chem & Phys, Ft N
Resumen	There is a significant need to gain Acalypha arvensis, a plant from traditional medicine for centuries reports the isolation, characteriz products extracted from mace Specifically, three extracts were a in which antibacterial activity was ethanolic extract showed the methicillin-resistant Staphyloco Pseudomonas aeruginosa strain attributed to this plant. The chron
	most bioactive, in which the ella was identified for the first time in the main chemical responsible for we also identified chlorogenic a caffeic acid (5), among others (6- good alternative to treat health-re
Palabras claves	Acalypha arvensis, Ellagitannin,

Revista	CRYSTALS
Volumen	12
Número	4
ISSN	2073-4352
DOI	10.3390/cryst12040482
Título del Artículo	Electrochemical noise response
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Resumen	Cr ₂ Nb alloys are potential cand
	The influence of different mec
	sintering processes were studie scanning electron microscope (S

onoids as Antibacterials from Acalypha arvensis

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in access to new and better antibacterial agents. the Euphorbiaceae family, has been used in es to treat infectious diseases. This manuscript ation, and antibacterial screening of 8 natural ration of aerial parts of Acalypha arvensis. assessed (*n*-hexane, ethyl acetate, and ethanol), evaluated against diverse bacterial strains. The best activity against methicillin-sensitive and occus aureus, Klebsiella pneumoniae, and ns, which supports the medicinal properties matographic fractions AaR4 and AaR5 were the agitannin natural product known as corilagin (1) this plant. Therefore, it can be said that this is for the observed antibacterial activity. However, acid (2), rutin (3), quercetin-3-O-glucoside (4), -8). Hence, this plant can be considered to be a elated issues caused by various bacteria.

Corilagin

e of Cr₂Nb powders applying mechanical alloying

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lidates for high-temperature structural materials. chanical alloying parameters (milling time) and ed. After mechanical alloying and observation by SEM), nano powders were characterized and then

Enero 2024

Universidad Juárez Autónoma de Tabasco

Suplemento Especial

Gaceta Juchimán

Fuente de Artículos Científicos: https://jcr.clarivate.com

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Resumen	sintered by spark plasma sintering (SPS). Electrochemical noise (EN) tests were also conducted in order to study the electrochemical behavior. From the current experimental results, it was revealed that ball milling times up to 20 h may explain the influence of Nb–Cr alloys and its association to the Laves phase and corrosion behavior. These insights aimed at improving the samples' predicted behavior before spending time and resources at high-temperature industrial processes.
Palabras claves	Mechanical alloying, SPS, Electrochemical noise

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Revista	ARP RHEUMATOLOGY
Volumen	1
Número	2
ISSN	2795-4552
DOI	N/A
Título del Artículo	Efficacy of prolotherapy in pain control and function improvement in individuals with lateral epicondylitis: a systematic review and meta-analysis
Autores e instituciones	Arias-Vázquez, PI ^[1] ; Castillo-Avila, RG ^[2] ; Tovilla-Zárate, CA ^[1] ; Quezada-González, HR ^[3] ; Arcila-Novelo, R ^[4] ; Loeza-Magaña, P ^[5]
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	[5] Natl Med Ctr 20 November ISSSTE, Sports Sci, Rehabil Med, México City, DF, México
Resumen	Aim: The objective of this study was to evaluate the efficacy of prolotherapy when
	 treating individuals with lateral epicondylitis through a systematic review and meta-analysis. Methods: The search for articles was carried out in electronic databases including PUBMED, CENTRAL, WEB OF SCIENCE, SCIELO and Google Scholar, published up to July 2021. We used the following keywords: prolotherapy OR proliferation therapy OR hypertonic dextrose injections AND tennis elbow OR lateral epicondylitis. The effectiveness was expressed as mean difference or standardized mean difference (SMD and 95% CI). Major results: Nine clinical trials that used prolotherapy in the treatment of lateral epicondylitis were included. In the pooled analysis, prolotherapy was effective in pain control in the medium (SMD= -0.85, 95% CI -1.29 to -0.41) and long terms (SMD= -1.05, 95% CI -2.06 to -0.03). It was also effective in improving function in the medium term (SMD= -1.21, 95% CI -1.64 to -0.78). Conclusions: Prolotherapy was effective for reducing pain in the medium and long terms, as well as for improving function in the medium term, in individuals with lateral epicondylitis. However, the quality of evidence was only moderate. More studies with a low risk of bias are necessary to further clarify the efficacy of prolotherapy in patients with lateral epicondylitis.
Palabras claves	Prolotherapy, Proliferation therapy, Lateral epicondylitis

Revista	REVISTA MEXICANA DE CIENCIAS PECUARIAS
Volumen	13
Número	3
ISSN	ISSN: 2007-1124 eISSN: 2448-6698
DOI	10.22319/rmcp.v13i3.5786
Título del Artículo	Effectiveness of zilpaterol hydrochloride in lamb finishing: Patent vs. Generic

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Resumen	The objective of this study was ources of zilpaterol hydrochlorid characteristics, primary cutyields Thirty (30) Dorper×Pelibuey male three lambs ofsimilar initial live following treatments: 1) without 2 generic ZH (GZH). Treatment r contrasts: control vsZH (PZH+G2 the productive performance, percentages (kidney-pelvic-hear <i>Longissimus</i> dorsimuscle area a As for the meat quality, ZH did no (P<0.05) redness, yellowness, a well as the redness value (P<0.0 yield which tended (P=0.07) to i similar (P \square 0.14) betweenPZH ar ZH at a dose of 0.10 mg per kg finishing lambs; however, this productive performanceor carcas
Palabras claves	Adrenergic agonists, Meat qualit

s, L^[1]; Guerra-Liera, JE^[2]; Cruz, RB^[2]; Vicente-^{1]}; Delgado, MAG ^[2]; Chay-Canul, AJ ^[4]; Macías-

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to compare the effect of the patent vs. generic de (ZH) on the productive performance, carcass ds, and meat quality of lambs finished in feedlot. le lambs were distributed into 10 blocks, each with ve weightwhich wererandomly assigned to the ZH (control),2) with patent ZH (PZH), and 3) with means were compared through two orthogonal SZH) and PZH vs.GZH. ZH did not affect (P≥0.15) carcass weight, backfat thickness, or fat rt, mesenteric or omental), but increased (P≤0.05) and yields of carcass, shoulder, leg, and plainloin. not affect (P≥0.24) pH andshear force, but reduced and chroma color values at 24 h post mortem, as .01) at 14 daysof aging. With exception of carcass increase with PZH, all measured variables were and GZH. It has been concluded that both types of g of live weight promote muscular hypertrophy in dosageis not sufficient to result in a better ass weight.

lity, Carcass characteristics



