



Unidad Iztapalapa
División de Ciencias Biológica y de la Salud

Doctorado en Biotecnología

Relación de productos de investigación de las LGAC

Programa Nacional de Posgrados de Calidad
CONACYT

Convocatoria 2021

RELACIÓN DE PRODUCTOS ACADÉMICOS DE LAS LGAC

Nuestro Posgrado cuenta con seis líneas generales de aplicación del conocimiento (**LGAC**):

- BIOTECNOLOGÍA DE ALIMENTOS (**A**)
- BIOTECNOLOGÍA AMBIENTAL (**BA**)
- BIOLOGÍA MOLECULAR DE MICROORGANISMOS INDUSTRIALES (**BM**)
- FERMENTACIONES MICROBIANAS (**FM**)
- BIOQUÍMICA DE MACROMOLÉCULAS (**MM**)
- PRODUCTOS NATURALES (**PN**)

A continuación, se presenta el núcleo básico (NAB) ordenado según la **LGAC** a la que están asignados los profesores, así como el nivel que tienen en el Sistema Nacional de Investigadores (**SNI**). En la tabla se aprecia que en cada LGAC todos los profesores pertenecen al **SNI** en distinto grado de consolidación, asociado a la edad y antigüedad de cada uno en la Universidad. Por otro lado, el número de profesores en cada LGAC se equilibra cuando se considera a los integrantes de Tiempo Parcial en el Doctorado en Biotecnología, mismos que aparecen en el reporte correspondiente de la plataforma PNPC.

No.	PROFESOR	LGAC	Nivel SNI
1	Cruz Guerrero Alma Elizabeth	A	1
2	Rodríguez Serrano Gabriela Mariana	A	1
3	Bósquez Molina Elsa	A	1
4	García Garibay José Mariano	A	2
5	Cuervo López Flor De María	BA	1
6	Fajardo Ortiz María Del Carmen	BA	1
7	Monroy Hermosillo Oscar Armando	BA	3
8	Ramírez Vives Florina	BA	2
9	Texier Anne Claire	BA	2
10	Volke Sepúlveda Tania	BA	1
11	Barrios González Javier	BM	2
12	Fernández Perrino Francisco José	BM	2
13	Fierro Fierro Francisco	BM	2
14	Loera Corral Octavio	BM	3
15	Mejía Álvarez Armando	BM	1
16	Favela Torres Ernesto	FM	3
17	Huerta Ochoa Sergio	FM	2
18	Prado Barragán Lilia Arely De Jesús	FM	-
19	Saucedo Castañeda Jesús Gerardo	FM	3
20	Shirai Matsumoto Concepción Keiko	FM	3
21	Tomasini Campocosio Araceli	FM	2
22	Viniegra González Gustavo	FM	3

23	Escalona Buendía Héctor Bernardo	MM	2
24	Guerrero Legarreta María Isabel	MM	3
25	Pérez Chabela María De Lourdes	MM	2
26	Ponce Alquicira Edith	MM	2
27	Soriano Santos Jorge	MM	1
28	Cruz Sosa Francisco	PN	2
29	Román Guerrero Angélica	PN	1
30	Verde Calvo José Ramón	PN	1
31	Vernon Carter Jaime	PN	3

El NAB es altamente productivo, lo que se refleja en el acreditamiento ya que todos los profesores (excepto uno) pertenecen al Sistema Nacional de Investigadores en los niveles 1, 2 y 3. A continuación, se muestra una tabla con los números globales de producción científica de los profesores del NAB, agrupados por LGAC, de acuerdo a su historial completo.

Nombre de profesor	LGAC	Artículos	Libros	Capítulos de libro	Participación en congresos	Patentes en México
Cruz Guerrero Alma Elizabeth	A	47	0	4	137	1
Rodríguez Serrano Gabriela Mariana	A	38	2	5	147	1
García Garibay José Mariano	A	90	0	6	103	0
Cuervo López Flor de María	BA	74	2	7	158	2
Fajardo Ortiz María del Carmen	BA	15	1	4	42	0
Monroy Hermosillo Oscar	BA	70	7	12	191	5
Ramírez Vives Florina	BA	30	0	1	161	0
Texier Anne Claire	BA	44	0	5	177	0
Volke Sepúlveda Tania Lorena	BA	22	2	2	82	0
Barrios González Javier	BM	48	1	9	103	3
Fernández Perrino Francisco José	BM	82	3	14	216	3
Fierro Fierro Francisco	BM	49	2	10	135	4
Loera Corral Octavio	BM	89	0	3	256	4
Mejía Álvarez Armando	BM	29	1	9	59	1
Favela Torres Ernesto	FM	93	0	15	42	0
Huerta Ochoa Sergio	FM	56	3	17	130	1
Prado Barragán Lilia Arely	FM	62	6	29	181	2

Saucedo Castañeda Jesús Gerardo	FM	71	9	18	>250	5
Shirai Matsumoto Concepción Keiko	FM	76	3	29	267	6
Tomasini Campocosio Araceli	FM	44	1	15	91	2
Viniegra González Gustavo	FM	89	1	3	>200	14
Escalona Buendía Héctor Bernardo	MM	64	0	7	32	2
Guerrero Legarreta Isabel	MM	95	3	13	151	0
Ponce Alquicira Edith	MM	56	5	31	204	0
Soriano Santos Jorge	MM	6	0	17	330	7
Cruz Sosa Francisco	PN	82	15	9	227	0
Román Guerrero Angélica	PN	41	0	2	14	0
Verde Calvo José Ramón	PN	24	8	3	48	5
Vernon Carter Jaime	PN	185	0	7	150	0

La mayoría de las publicaciones tiene como **primer autor al alumno de doctorado** que participó en el trabajo. En las siguientes tablas se enlista una muestra de los **artículos científicos** publicados el último año en revistas de circulación internacional indizadas en el *Journal Citation Report (JCR)*.

ARTÍCULOS PUBLICADOS EN EL ÚLTIMO AÑO (2020)
Artículos de la profesora Alma Cruz Guerrero
Pérez-Escalante, E., González-Olivares, L. G., Castañeda-Ovando, A., Cruz-Guerrero, A. E., Trant, J. F., López-Orozco, W., & Humberto, L. (2020, November). An <i>in silico</i> approach to enzymatic synthesis of fucooligosaccharides using α -L-fucosidase from <i>Thermotoga maritima</i> . In <i>Presented at the 24th International Electronic Conference on Synthetic Organic Chemistry</i> (No. 15).
Pérez-Escalante, E., Alatorre-Santamaría, S., Castañeda-Ovando, A., Salazar-Pereda, V., Bautista-Ávila, M., Cruz-Guerrero, A. E., ... & González-Olivares, L. G. (2020). Human milk oligosaccharides as bioactive compounds in infant formula: recent advances and trends in synthetic methods. <i>Critical Reviews in Food Science and Nutrition</i> , 1-34.
Sebastián-Nicolás, J. L., González-Olivares, L. G., Vázquez-Rodríguez, G. A., Lucho-Constantino, C. A., Castañeda-Ovando, A., & Cruz-Guerrero, A. E. (2020). Valorization of whey using a biorefinery. <i>Biofuels, Bioproducts and Biorefining</i> , 14(5), 1010-1027.
Jiménez-Pérez, C., Tello-Solís, S. R., Gómez-Castro, C. Z., Alatorre-Santamaría, S., Gómez-Ruiz, L., Rodríguez-Serrano, G., ... & Cruz-Guerrero, A. (2020). Spectroscopic studies and molecular modelling of the aflatoxin M1-bovine α -lactalbumin complex formation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 209, 111957.
Pérez-Escalante, E., Cruz-Guerrero, A. E., Álvarez-Romero, G. A., Mendoza-Huizar, L. H., Flores-Aguilar, J. F., & González-Olivares, L. G. (2020). Urea as the best fibrin solubilizer in the thrombin inhibition analysis: Theoretical and experimental modeling of fibrinogen denaturation. <i>Chemical Physics Letters</i> , 748, 137352.
Sebastián-Nicolás, J. L., Cruz-Guerrero, A. E., Castañeda-Ovando, A., Vázquez-Rodríguez, G. A., Hernández-Hernández, H. M., Lucho-Constantino, C. A., & González-Olivares, L. G. (2020). Enrichment of lactoferrin by a simple process based on solid phase extraction. <i>Revista Mexicana de Ingeniería Química</i> , 19(1), 251-261.
Artículos del profesor Javier Barrios González
Barrios-González, J., Pérez-Sánchez, A., & Bibián, M. E. (2020). New knowledge about the biosynthesis of lovastatin and its production by fermentation of <i>Aspergillus terreus</i> . <i>Applied Microbiology and Biotechnology</i> , 1-20.
Bibián, M. E., Pérez-Sánchez, A., Mejía, A., & Barrios-González, J. (2020). Penicillin and cephalosporin biosyntheses are also regulated by reactive oxygen species. <i>Applied microbiology and biotechnology</i> , 104(4), 1773-1783.
Artículos del profesor Francisco Cruz Sosa

Cabañas-García, E., Areche, C., Gómez-Aguirre, Y. A., Borquez, J., Muñoz, R., Cruz-Sosa, F., & Balch, E. P. M. (2021). Biomass production and secondary metabolite identification in callus cultures of *Coryphantha macromeris* (Engelm.) Britton & Rose (Cactaceae), a traditional medicinal plant. *South African Journal of Botany*, 137, 1-9.

Pérez-González, M. Z., Gutiérrez-Rebolledo, G. A., Jiménez-Arellanes, M. A., & Cruz-Sosa, F. (2021). The chemical constituents and biological activities of *Cnidocolus chayamansa* McVaugh, a Mexican medicinal species, and plant cell cultures for the production of bioactive secondary metabolites. In *Studies in Natural Products Chemistry* (Vol. 68, pp. 317-346). Elsevier.

Arano-Varela, H., Cruz-Sosa, F., Estrada-Zúñiga, M. E., & Fernández, F. J. (2020). Effects of phenylalanine and methyl jasmonate on verbascoside production in *Buddleja cordata* Kunth cell suspension cultures. *South African Journal of Botany*, 135, 41-49.

Joaquín-Cruz, E., Hernández-Rodríguez, L., Jiménez-Alvarado, R., Alonso-Carrillo, N., Cruz-Sosa, F., & Roman-Guerrero, A. (2020). Water-in-oil nanoemulsions loaded with *Ardisia compressa* K. bioactive compounds: evaluation of their physicochemical stability and functional activities. *Journal of Dispersion Science and Technology*, 1-14.

Sánchez-Ramos, M., Álvarez, L., Romero-Estrada, A., Bernabé-Antonio, A., Marquina-Bahena, S., & Cruz-Sosa, F. (2020). Establishment of a Cell Suspension Culture of *Ageratina Pichinchensis* for the Improved Production of Anti-inflammatory Compounds.

Arano-Varela, H., Fernández, F. J., Estrada-Zúñiga, M. E., & Cruz-Sosa, F. (2020). Verbascoside production in long-term *Buddleja cordata* Kunth cell suspension cultures. *3 Biotech*, 10, 1-9.

Cabañas-García, E., Areche, C., Gómez-Aguirre Y.A., Jáuregui-Rincón, J., Cruz-Sosa, F., Pérez-Molphe Balch, E. (2020). Phytochemical profile of *Coryphantha macromeris* (Engelm.) Britton & Rose (Cactaceae) obtained from in vitro culture. *Revista Mexicana de Ingeniería Química* 19(1): 239-249 Accepted 26-03-2019 Published on line 20-06-2019 ISSN print: 1665-2738 ISSN electronic: 2395-8472 Publisher: UAM-Iztapalapa CdMx, México. DOI: <https://doi.org/10.24275/rmiq/Bio540>

Artículos de la profesora Flor Cuervo López

Ramírez, M. J.J., Cuervo-López F. y Texier A C, (2020). Ampicillin biotransformation by a nitrifying consortium. *World Journal of Microbiology and Biotechnology* 36:21 DOI:10.1007/s11274-020-2798-3. (ISSN 0959-3993).

Bejarano Ortiz D. I., Martínez-Jardines M., Cuervo López F. M., Texier A.-C. (2020) .Biological ammonium and sulfide oxidation in a nitrifying sequencing batch reactor: kinetic and microbial population dynamics assessments. *Chemosphere*. <https://doi.org/10.1016/j.chemosphere.2020.126637>. (ISSN: 0045-6535)

Artículos del profesor Fernando Díaz de León

Clara, C. A., Angélica, R. G., Hugo, O. C. V., Fernando, D. D. L. S., Lorena, Á. R. E., Clara, P. Z., ... & Alberto, M. E. J. (2020). Chemical characterization, antioxidant capacity, and anti-hyperglycemic effect of *Stenocereus stellatus* fruits from the arid Mixteca Baja region of Mexico. *Food Chemistry*, 328, 127076.

Gómez-Covarrubias, S. I., Rivera-Cabrera, F., Mendoza-Gastelum, J. I., Oidor-Chan, V. H., Aarland, R. C., Cruz-Sosa, F., ... & Mendoza-Espinoza, J. A. (2020). Effect of Pasteurization on Chemical and Functional Properties of *Xoconostle* (*Opuntia joconostle*) Juice. *Journal of food quality and hazards control*.

Artículos del profesor Héctor Escalona Buendía

Carapia, M. Á. H., Calvo, J. R. V., & Buendía, H. B. E. (2021). Influence of temperature and germination time on diastatic power of blue and red maize (*Zea mays* L.) malts. *Emirates Journal of Food and Agriculture*.

A. Pintor-Jardines, J.L. Arjona-Román, P. Severiano-Pérez, A. Totosaus-Sánchez, S. Fiszman, H.B. Escalona-Buendía. Agave fructans as fat and sugar replacers in ice cream: Sensory, thermal and texture properties. *Food Hydrocolloids* 108 (2020) 106032

Angélica Romero-Medina, Mirna Estarrón-Espinosa, José Ramón Verde-Calvo, Maud Lelièvre-Desmas, Héctor B Escalona-Buendía. Renewing Traditions: A Sensory and Chemical Characterisation of Mexican Pigmented Corn Beers. *Foods* 9 (7), 2020, 886

Isadora Martínez-Arellano, Patricia Severiano-Pérez, Francisco José Fernández, Héctor Escalona-Buendía, Edith Ponce-Alquicira. Relationship between protein markers and the sensory/physicochemical parameters of ovine meat during refrigerated storage. *Biotechnol. Agron. Soc. Environ.* 24(3), 2020, 184-191

Mariel Calderón-Oliver, Héctor B Escalona-Buendía, Edith Ponce-Alquicira. Effect of the addition of microcapsules with avocado peel extract and nisin on the quality of ground beef. *Food Science & Nutrition* 8(3), 2020, 1325-1334

Artículos de la profesora Carmen Fajardo Ortiz

Hernández-Fydrich, V. C., Benítez-Olivares, G., Meraz-Rodríguez, M. A., Salazar-Peláez, M. L., & Fajardo-Ortiz, M. C. (2019). Methane production kinetics of pretreated slaughterhouse wastewater. *Biomass and Bioenergy*, 130, 105385.

Velasco-Garduño, O., González-Blanco, G., Fajardo-Ortiz, M. D. C., & Beristain-Cardoso, R. (2020). Influence of metronidazole on activated sludge activity. *Environmental technology*, 1-8., <http://doi.org/10.1080/095933302020.1714746>

Artículos del profesor Ernesto Favela Torres

Daniel Salgado-Bautista, Tania Volke-Sepúlveda, Francisco Figueroa-Martínez, Ulises Carrasco-Navarro, Alicia Chagolla-Lopez, Ernesto Favela-Torres. 2020. Solid-state fermentation increases secretome complexity in *Aspergillus brasiliensis*. *Fungal Biology*, No. 8 Vol. 124Pp 723-734

Fernando Méndez-González, Octavio Loera, Gerardo Saucedo-Castañeda, Ernesto Favela-Torres, 2020, Forced aeration promotes high production and productivity of infective conidia from *Metarhizium robertsii* in solid-state fermentation. *Biochemical Engineering Journal* 156 (2020) 107492.

L. A. Figueroa Torres, M.A. Lizardi Jiménez, N. López Ramírez, E.C. Varela-Santos, F. Hernández Rosas, E. Favela Torres, R. Hernández Martínez. (2020) Saccharification of water hyacinth biomass by a combination of steam explosion with enzymatic technologies for bioethanol production. *3 Biotech* 10:432 <https://doi.org/10.1007/s13205-020-02426-8>

Artículos del profesor Francisco Fernández Perrino

Arano Varela H., Estrada-Zúñiga M.E., Cruz-Sosa F. y Fernández F.J. Effects of phenylalanine and methyl jasmonate on verbascoside production in *Buddleja cordata* Kunth cell suspension cultures. 2020. *South African Journal of Botany* 135: 41-49, 10.1016/j.sajb.2020.08.005. 2019 Impact Factor (Clarivate Analytics, EEUU, 2020 release of Journal Citation Reports): 1.792.

Campos C, Lázaro-Rodríguez T.G., Hernández-Pérez, E., Rincón-Heredia, R. y Fernández, F.J. .Pexophagy modes during penicillin biosynthesis in *Penicillium rubens* P2-32-T. 2020. *Archives of Microbiology* 202: 2337-2341, 10.1007/s00203-020-01939-310. 2019 Impact Factor (Clarivate Analytics, EEUU, 2020 release of Journal Citation Reports): 1.884.

.Martínez-Arellano Isadora, Escalona-Buendía Héctor, Severiano-Pérez Patricia, Fernández Francisco José, Ponce-Alquicira Edith. Relationship between protein markers and the sensory/physicochemical parameters of ovine meat during refrigerated storage. *2020Biotechnology, Agronomy, Society and Environment (BASE)* 24: 184-191, 10.25518/1780-4507.18668. 2019 Impact Factor (Clarivate Analytics, EEUU, 2020 release of Journal Citation Reports): 1.319.

Vesicular transport and secretion of penicillin G in *Penicillium rubens* P2-32-T. 2020. Campos C, Lázaro-Rodríguez T.G., Fragoso-Soriano R. y Fernández, F.J. (autor para correspondencia). *Archives of Microbiology* 202: 1257-1262, 10.1007/s00203-019-01806-w. 2019 Impact Factor (Clarivate Analytics, EEUU, 2020 release of Journal Citation Reports): 1.884.

Artículos del profesor Francisco Fierro Fierro

Hernández-Morales, J., Hernández-Coronado, C. G., Guzmán, A., Zamora-Gutiérrez, D., Fierro, F., Gutiérrez, C. G., & Rosales-Torres, A. M. (2021). Hypoxia up-regulates VEGF ligand and downregulates VEGF soluble receptor mRNA expression in bovine granulosa cells in vitro. *Theriogenology*, 165, 76-83.

Ruiz-Lara, A., Fierro, F., Carrasco, U., Oria, J. A., & Tomasini, A. (2020). Proteomic analysis of the response of *Rhizopus oryzae* ENHE to pentachlorophenol: Understanding the mechanisms for tolerance and degradation of this toxic compound. *Process Biochemistry*, 95, 242-250.

Cortés-Maldonado, L., Marcial-Quino, J., Gómez-Manzo, S., Fierro, F., & Tomasini, A. (2020). A method for the extraction of high quality fungal RNA suitable for RNA-seq. *Journal of microbiological methods*, 170, 105855.

Artículos de la profesora Isabel Guerrero Legarreta

Mota-Rojas D., Martínez-Burnes J., Napolitano F., Domínguez-Muñoz M., Guerrero-Legarreta I., Mora-Medina P., Ramírez-Necochea R., Lezama-García K., González-Lozano M. 2020. Dystocia: factors affecting parturition in domestic animals. *Dystocia: factors affecting parturition in domestic animals*. *CAB Reviews* 15(13): 1-16.

Guerrero-Legarreta, I., Napolitano, F., Cruz-Monterrosa, R., Mota-Rojas, D., Mora-Medina, P., Ramírez-Bribiesca, E., Bertoni, A., Berdugo-Gutiérrez, J., Braghieri, A. 2020. River buffalo meat production and quality: sustainability, productivity, nutritional information, and sensory properties. *Journal of Buffalo Science*, 9, 159-169

Cruz-Monterrosa, R., Mota-Rojas, D., Ramírez-Bribiesca, E., Mora-Medina, P., Guerrero-Legarreta, I. 2020. Scientific Findings on the Quality of River Buffalo Meat and its Prospects for Future Studies. *Journal of Buffalo Science*, 9, 170-180

Artículos del profesor Sergio Huerta Ochoa

Itza Nallely Cordero-Soto, Carlos Omar Castillo-Araiza, Luis Eduardo García Martínez, Arely Prado Barragán, Sergio Huerta-Ochoa. (2020). Solid/Gas biocatalysis for aroma production: an alternative process of White Biotechnology. *Biochemical Engineering Journal*. 164: 107767. DOI: 10.1016/j.bej.2020.107767

Christian Hernández-Guzmán, Arely Prado-Barragán, Miquel Gimeno, Angélica Román- Guerrero, Olga Miriam Rutiaga- Quiñones, Nuria Elizabeth Rocha-Guzmán, Sergio Huerta-Ochoa. (2020). Whole-Cell Bioconversion of Naringenin to High Added Value Hydroxylated Compounds Using *Yarrowia lipolytica* 2.2ab in Surface and Liquid Cultures. *Bioprocess and Biosystems Engineering*. [ISSN: 1615-7591 (Print) 1615-7605 (Online)]. DOI: 10.1007/s00449-020-02316-6.

Artículos del profesor Octavio Loera Corral

López-Reynoso E., Méndez-Hernández J.E, Ek-Ramos M., Montesinos-Matías R., Loera O. 2021. *Metarhizium robertsii* in combination with *Trichoderma asperellum* reduce the malathion doses used to control ambrosia beetles: the case of *Xyleborus affinis*. *Biocontrol Science and Technology*. In Press, DOI:10.1080/09583157.2021.1923656.

Camarillo Ravelo D., Octavio Loera, Ignacio González-Martínez, Wilberth Chan Cupul & Celestino Odín Rodríguez Nava. 2020. Evaluation of bezafibrate, gemfibrozil, indomethacin, sulfamethoxazole, and diclofenac removal by ligninolytic enzymes, *Preparative Biochemistry & Biotechnology*, In Press, DOI: 10.1080/10826068.2020.1721532

Flores-Tufiño B, Figueroa-Martínez F, Viniestra-González G, Loera O. 2021. Polyurethane foam as an inert support using concentrated media improves quality and spore production from *Bacillus thuringiensis*. *World Journal of Microbiology and Biotechnology* 37:154. DOI: <https://doi.org/10.1007/s11274-021-03122-2>

González-Márquez A., Loera O., Viniestra-González G., Sánchez C. 2020. Induction of esterase activity during the degradation of high concentrations of the contaminant di(2-ethylhexyl) phthalate by *Fusarium culmorum* under liquid fermentation conditions. *3 Biotech* (2020) 10:488. DOI <https://doi.org/10.1007/s13205-020-02476-y>

Artículos del profesor Armando Mejía Álvarez

Sicairos-Díaz Victoria; Liras Paloma; Barrios-González Javier; Millán-Pacheco Cesar; Reyes Ana; Mejía Armando (2020) "Genes involved in an antibiotic resistance system in *Streptomyces clavuligerus*". *Microbial Drug Resistance*. (in press) ISSN: 1076-6294 <https://home.liebertpub.com/publications/microbial-drug-resistance/44>

Bibián ME, Pérez-Sánchez A, Mejía A, Barrios-González J. (2020) "Penicillin and cephalosporin biosyntheses are also regulated by reactive oxygen species". *Appl. Microbiol. Biotechnol.* 104(4): 1773-1783. <https://doi.org/10.1007/s00253-019-10330-2>.

Artículos de la profesora Edith Ponce Alquicira

López-Arvizu A., Rocha-Mendoza D., Ponce-Alquicira E., García-Cano I. 2021. Characterization of antibacterial activity of a N-acetylmuramoyl-L-alanine amidase produced by *Lactilactobacillus sakei* isolated from salami. *World Journal of Microbiology and Biotechnology*. aceptado

Martínez-Arellano, I., Severiano-Pérez, P., Fernández, F.J., Escalona-Buendía H., Ponce Alquicira E. 2020. Relationship between protein markers and the sensory/physicochemical parameters of ovine meat during refrigerated storage. *Biotechnol. Agron. Soc. Environ.* 24(1):184-191.

Calderón Oliver M., Escalona Buendía H.B., Ponce-Alquicira E. 2020. Effect of the addition of microcapsules with avocado peel extract and nisin on the quality of ground beef. *Journal of Food Science & Nutrition*, 8(3):1325-1334.

Artículos de la profesora Gabriela Rodríguez Serrano

Maria Eugenia Aguilar-Alvarez, Gerardo Saucedo-Castañeda, Noel Durand, Isabelle Perraud-Gaime, Rosa Obdulia González-Robles, Gabriela Mariana Rodríguez-Serrano. 2021. The variety, roasting, processing, and type of cultivation determine the low OTA levels of commercialized coffee in Chiapas State, Mexico, *Food Control*. En prensa

Martínez-Ramírez, Cándida; Esquivel-Cote, Rosalba; Ferrera-Cerrato, Ronald; Martínez.Ruiz, José; Rodríguez-Serrano, Gabriela; Saucedo-Castaneda, Gerardo. 2021. Solid-state culture of *Azospirillum brasilense* a reliable technology for biofertilizer production: from laboratory to pilot-scale. *Bioprocess and Biosystems Engineering*. En prensa

Juan Ramírez-Godínez, Juan Francisco Gutiérrez-Rodríguez, Elizabeth Contreras-López, Gabriela Mariana Rodríguez-Serrano, Araceli Castañeda-Ovando, Judith Jaimez-Ordaz, Luis Guillermo González-Olivares. 2021. Agave juice improves survival and proteolytic activity of *Lactobacillus rhamnosus* GG during ripening of semi-ripened Mexican cheese. *Food Sciences and Technology*. DOI: <https://doi.org/10.1590/fst.30820>

Aurea Morales-Estrada, Luis Guillermo González Olivares, Elizabeth Contreras López, Gabriela Rodríguez Serrano. *SeIA and SeID genes involved in selenium absorption metabolism in lactic acid bacteria isolated from Mexican cheeses. Int. Dairy J.* 103: 104629.

Escobar-Ramírez M.C., Jaimez-Ordaz J., Escorza Iglesias V.A., Rodríguez Serrano G.M., Contreras López E., Ramírez Godínez J., Castañeda Ovando A., Morales estrada A.I., Felix Reyes N., González Olivares L.G. 2020. *Lactobacillus pentosus* ABHEAU: An in vitro digestion resistant lactic acid bacterium isolated from a traditional fermented Mexican beverage. *Revista Argentina de Microbiología*. In press.

Artículos de la profesora Angélica Román Guerrero

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