

CEPROBI - PUBLICACIONES 2015

Acevedo Agama Edith

1. **Physicochemical, digestibility and structural characteristics of starch isolated from banana cultivars**
Agama-Acevedo, E., Nuñez-Santiago, M. C., Alvarez-Ramirez, J. & Bello-Pérez, L. A. 25 Jun 2015 In : Carbohydrate Polymers. 124, p. 17-24 8 p.
 2. **Potencial de la harina de cascara de platano (Musa paradisiaca L.) como fuente de fibra dietetica y compuestos antioxidantes**
Agama-Acevedo, E., Sañudo-Barajas, J. A., Vélez De La Rocha, R., González-Aguilar, G. A. & Bello-Pérez, L. A. 19 Jun 2015 In : CYTA - Journal of Food.
 3. **Gluten-free spaghetti with unripe plantain, chickpea and maize: Physicochemical, texture and sensory properties**
Flores-Silva, P. C., Berrios, J. D. J., Pan, J., Agama-Acevedo, E., Monsalve-González, A. & Bello-Pérez, L. A. 3 Apr 2015 In : CYTA - Journal of Food. 13, 2, p. 159-166 8 p.
 4. **In vitro starch digestibility of gluten-free spaghetti based on maize, chickpea, and unripe plantain flours**
Bello-Perez, L. A., Flores-Silva, P. C., Utrilla-Coello, R. G., Agama-Acevedo, E. & Hamaker, B. R. 1 Mar 2015 In : Cereal Chemistry. 92,2, p. 171-176 6 p.
- Contribution to journal › Article
5. **Influence of annealing flours from raw and pre-cooked plantain fruit on cooked starch digestion rates**
De La Rosa-Millan, J., Lin, A. H. M., Osorio-Díaz, P., Agama-Acevedo, E., Hamaker, B. R. & Bello-Perez, L. A. 1 Jan 2015 In : Starch/Staerke. 67, 1-2, p. 139-146 8 p.

Arenas Ocampo Martha Lucia

1. **Caracterización morfológica de estructuras florales de *Tagetes erecta* L. y *Tagetes patula* L. (Asteraceae) utilizando análisis digital de imágenes y dimensión fractal**
Quintanilla Carvajal, M. X., Arenas Ocampo, M. L., Mendiola, R. C., Camacho Daz, B. H. & Jiménez Aparicio, A. R. 1 Jun 2015 In : Gayana - Botanica. 72, 1, p. 137-144 8 p.
2. **Eucharis Grandiflora Planch. and Linden Development Fertirrigated with Different Osmotic Potentials**
Evangelista-Lozano, S., Estrada-García, M., Escobar-Arellano, S. L., Arenas-Ocampo, M. L., Camacho-Díaz, B. H. & Jiménez-Aparicio, A. R. 21 Mar 2015 In : Journal of Plant Nutrition. 38, 4, p. 551-567 17 p.

Arzuffi Barrera Angel Rene

1. **Oviposition by *Toxotrypanacurvicauda* (Diptera: Tephritidae) in Small to Medium-Size Cuaguayote and Papaya Fruits with Low Sugar Content**
Martínez-Barrera, O. Y., Arzuffi, R. & Jiménez-Pérez, A. 1 Sep 2015 In : Florida Entomologist. 98, 3, p. 994-996 3 p.

Barrera Necha Laura Leticia

(No hay publicaciones 2015)

Bautista Baños Silvia

1. Chitosan boehmite-alumina nanocomposite films and thyme oil vapour control brown rot in peaches (*Prunus persica* L.) during postharvest storage
Cindi, M. D., Shittu, T., Sivakumar, D. & Bautista-Baños, S. 1 Jun 2015 In : *Crop Protection*. 72, p. 127-131 5 p.

Contribution to journal › Article
2. Postharvest evaluation of Goldfinger banana (FHIA-01) at different storage temperatures followed by an acclimation time
Gutiérrez-Martínez, P., Avila-Peña, R. C., Sivakumar, D. & Bautista-Baños, S. 1 May 2015 In : *Fruits*. 70, 3, p. 173-179 7 p.

Contribution to journal › Article
3. Producción de pigmentos de *Pycnoporus sanguineus* en medio de cultivo sólido
Cruz Muñoz, R., Piña-Guzmán, A. B., Yáñez-Fernández, J., Valencia-Del Toro, G., Bautista-Baños, S. & Villanueva Arce, R. 2015 In : *Agrociencia*. 49, 4, p. 347-359 13 p.

Bello Pérez Luis Arturo

1. Effect of the addition order and amylose content on mechanical, barrier and structural properties of films made with starch and montmorillonite
Romero-Bastida, C. A., Bello-Pérez, L. A., Velázquez, G. & Alvarez-Ramírez, J. 20 Aug 2015 In : *Carbohydrate Polymers*. 127, p. 195-201 7 p.
2. Características estructurales de almidones de plátano empleando HPSEC-MALLS-RI
Méndez-Montealvo, G., Rodríguez-Ambríz, S. L. & Bello-Pérez, L. A. 4 Aug 2015 In : *Revista Mexicana de Ingeniería Química*. 14, 2, p. 293-302 10 p.

Effect of storage time on physicochemical and textural properties of sausages covered with oxidized banana starch film with and without betalains
Zamudio-Flores, P. B., Ochoa-Reyes, E., Ornelas-Paz, J. D. J., Aparicio-Saguilán, A., Vargas-Torres, A., Bello-Pérez, L. A., Rubio-Ríos, A. & Cárdenas-Félix, R. G. 3 Jul 2015 In : *CYTA - Journal of Food*. 13, 3, p. 456-463 8 p.
3. Nutritional properties and phenolic content of a bakery product substituted with a mango (*Mangifera indica*) 'Ataulfo' processing by-product
Ramírez-Maganda, J., Blancas-Benítez, F. J., Zamora-Gasga, V. M., García-Magaña, M. D. L., Bello-Pérez, L. A., Tovar, J. & Sáyago-Ayerdi, S. G. 1 Jul 2015 In : *Food Research International*. 73, p. 117-123 7 p.

Contribution to journal › Article
4. Effect of the degree of substitution of octenyl succinic anhydride-banana starch on emulsion stability
Bello-Pérez, L. A., Bello-Flores, C. A., Del Carmen Nuñez-Santiago, M., Coronel-Aguilera, C. P. & Alvarez-Ramírez, J. 29 Jun 2015 In : *Carbohydrate Polymers*. 132, p. 17-24 8 p.

Contribution to journal › Article
5. Electrochemical characterization of gelatinized starch dispersions: Voltammetry and electrochemical impedance spectroscopy on platinum surface

Hernandez-Jaimes, C., Lobato-Calleros, C., Sosa, E., Bello-Pérez, L. A., Vernon-Carter, E. J. & Alvarez-Ramirez, J. 25 Jun 2015 In : Carbohydrate Polymers. 124, p. 8-16 9 p.

6. **Colonic Fermentation of Unavailable Carbohydrates from Unripe Banana and its Influence over Glycemic Control**

Dan, M. C. T., Cardenette, G. H. L., Sardá, F. A. H., Giuntini, E. B., Bello-Pérez, L. A., Carpinelli, Â. R., Lajolo, F. M. & Menezes, E. W. 20 Jun 2015 In : Plant Foods for Human Nutrition. 70, 3, p. 297-303 7 p.

7. **In vitro digestibility, crystallinity, rheological, thermal, particle size and morphological characteristics of pinole, a traditional energy food obtained from toasted ground maize**

Carrera, Y., Utrilla-Coello, R., Bello-Pérez, A., Alvarez-Ramirez, J. & Vernon-Carter, E. J. 5 Jun 2015 In : Carbohydrate Polymers. 123, p. 246-255 10 p.

8.

Effect of the nixtamalization process on the dietary fiber content, starch digestibility, and antioxidant capacity of blue maize tortilla

Bello-Pérez, L. A., Flores-Silva, P. C., Camelo-Méndez, G. A., Paredes-López, O. & De Figueroa-Cárdenas, J. D. 1 May 2015 In : Cereal Chemistry. 92, 3, p. 265-270 6 p.

Contributiontojournal › Article

9. **Gluten-Free Snacks Using Plantain-Chickpea and Maize Blend: Chemical Composition, Starch Digestibility, and Predicted Glycemic Index**

Flores-Silva, P. C., Rodríguez-Ambríz, S. L. & Bello-Pérez, L. A. 1 May 2015 In : Journal of Food Science. 80, 5, p. C961-C966

Contributiontojournal › Article

10. **Mechanical, thermal, and antioxidant properties of composite films prepared from durum wheat starch and lignin**

Espinoza Acosta, J. L., Torres Chávez, P. I., Ramírez-Wong, B., Bello-Pérez, L. A., Vega Ríos, A., Carvajal Millán, E., Plascencia Jatomea, M. & Ledesma Osuna, A. I. 1 May 2015 In : Starch/Staerke. 67, 5-6, p. 502-511 10 p.

Contributiontojournal › Article

11. **Physicochemical, structural, and proteomic analysis of starch granules from maize landraces of Northwest Mexico**

Pineda-Hidalgo, K. V., Vega-Alvarez, E., Calderon-Zamora, L., Salazar-Salas, N. Y., Gutierrez-Dorado, R., Reyes-Moreno, C., Bello-Perez, L. A. & Lopez-Valenzuela, J. A. 1 May 2015 In : Cereal Chemistry. 92, 3, p. 320-326 7 p.

Contributiontojournal › Article

12. **Mechanisms of elastic turbulence in gelatinized starch dispersions**

Avila-De La Rosa, G., Carrillo-Navas, H., Echeverría, J. C., Bello-Pérez, L. A., Vernon-Carter, E. J. & Alvarez-Ramirez, J. 21 Apr 2015 In : Chaos, Solitons and Fractals. 77, p. 29-38 10 p.

13. **Carbohydrate and Phytochemical Digestibility in Pasta**

Camelo-Méndez, G. A., Ferruzzi, M. G., González-Aguilar, G. A. & Bello-Pérez, L. A. 10 Mar 2015 In : Food Engineering Reviews.

14. **Partial characterization of chayotextle starch composites with added polyvinyl alcohol**

Cotonieto-Morales, M. B., Palma-Rodríguez, H. M., Chavarría-Hernández, N., Hernández-Urbe, J. P., Zamudio-Flores, P. B., Bello-Pérez, L. A. & Vargas-Torres, A. 1 Mar 2015 In : Starch/Staerke. 67, 3-4, p. 355-364 10 p.

15.

Lintnerization of banana starch isolated from underutilized variety: Morphological, thermal, functional properties, and digestibility

Aparicio-Saguilán, A., Valera-Zaragoza, M., Perucini-Avendaño, M., Páramo-Calderón, D. E., Aguirre-Cruz, A., Ramírez-Hernández, A. & Bello-Pérez, L. A. 2 Jan 2015 In : CYTA - Journal of Food. 13, 1, p. 3-9 7 p.

16. Influence of annealing flours from raw and pre-cooked plantain fruit on cooked starch digestion rates
De La Rosa-Millan, J., Lin, A. H. M., Osorio-Díaz, P., Agama-Acevedo, E., Hamaker, B. R. & Bello-Perez, L. A. 1 Jan 2015 In : *Starch/Staerke*. 67, 1-2, p. 139-146 8 p.
17. Addition of acid-treated unripe plantain flour modified the starch digestibility, indigestible carbohydrate content and antioxidant capacity of semolina spaghetti
Almanza-Benitez, S., Osorio-Díaz, P., Méndez-Montealvo, G., Islas-Hernández, J. J. & Bello-Perez, L. A. 2015 In : *LWT - Food Science and Technology*. 62, 2, p. 1127-1133 7 p.

18. Caracterización fisicoquímica, mecánica y estructural de películas de almidones oxidados de avena y plátano adicionadas con betalainas
Zamudio-Flores, P. B., Ochoa-Reyes, E., Ornelas-Paz, J. D. J., Tirado-Gallegos, J. M., Bello-Pérez, L. A., Rubio-Ríos, A. & Cárdenas-Felix, R. G. 2015 In : *Agrociencia*. 49, 5, p. 483-498 16 p.
19. Morphological, rheological and in vitro digestibility characteristics of gelatinized starch dispersion under repeated freeze-thaw cycles
Vernon-Carter, E. J., Bello-Pérez, L. A., Lobato-Calleros, C., Hernández-Jaimes, C., Meraz, M. & Alvarez-Ramirez, J. 2015 In : *Starch/Staerke*.
20. Properties of Cast Films Made of Chayote (Sechiumedule Sw.) Tuber Starch Reinforced with Cellulose Nanocrystals
Terrazas-Hernandez, J. A., Berríos, J. D. J., Glenn, G. M., Imam, S. H., Wood, D., Bello-Pérez, L. A. & Vargas-Torres, A. 2015 In : *Journal of Polymers and the Environment*. 23, 1, p. 30-37 8 p.

Bermudez Torres Kalina

1. Potential hosts of *Castilleja tenuiflora* (Orobanchaceae) and characterization of its haustoria
Montes-Hernández, E., Sandoval-Zapotitla, E., Bermúdez-Torres, K. & Trejo-Tapia, G. 1 Jun 2015 In : *Flora: Morphology, Distribution, Functional Ecology of Plants*. 214, p. 11-16 6 p.
2. Lupinus species in central Mexico in the era of climate change: Adaptation, migration, or extinction?
Bermúdez-Torres, K., Ferval, M. & Legal, L. 1 Jan 2015 *Climate Change Impacts on High-Altitude Ecosystems*. Springer International Publishing, p. 215-228 14 p.

Camacho Diaz Brenda Hildeliza

1. *Eucharis Grandiflora* Planch. and Linden Development Fertirrigated with Different Osmotic Potentials
Evangelista-Lozano, S., Estrada-García, M., Escobar-Arellano, S. L., Arenas-Ocampo, M. L., Camacho-Díaz, B. H. & Jiménez-Aparicio, A. R. 21 Mar 2015 In : *Journal of Plant Nutrition*. 38, 4, p. 551-567 17 p.

Castrejón Gómez Víctor R

(No hay publicaciones 2015)

Del Villar Martínez Alma Angélica

1. Assessment of the differences in the phenolic composition and color characteristics of new strawberry (*Fragaria x ananassa*Duch.) cultivars by HPLC-MS and Imaging TristimulusColorimetry
Fernández-Lara, R., Gordillo, B., Rodríguez-Pulido, F. J., Lourdes González-Miret, M., del Villar-Martínez, A. A., Dávila-Ortiz, G. & Heredia, F. J. 14 May 2015 In : Food Research International.

Evangelista Lozano Silvia

1. Efectos del quitosano en hongos fitopatógenos y en la germinación de semillas de *Jatropha curcas* L.
Pabón-Baquero, D., Velázquez-Del Valle, M. G., Evangelista-Lozano, S., León-Rodríguez, R. & Hernández-Lauzardo, A. N. 1 Sep 2015 In : Revista Chapingo, Serie Ciencias Forestales y del Ambiente. 21, 3, p. 241-253 13 p.
2. Morpho-structural description of epidermal tissues related to pungency of *Capsicum* species
Sánchez-Segura, L., Téllez-Medina, D. I., Evangelista-Lozano, S., García-Armenta, E., Alamilla-Beltrán, L., Hernández-Sánchez, H., Jiménez-Aparicio, A. R. & Gutiérrez-López, G. F. 2015 In : Journal of Food Engineering. 152, p. 95-104 10 p.

Figuroa Brito Rodolfo

Composition of the essential oil of *Salvia ballotiflora* (Lamiaceae) and its insecticidal activity
Cárdenas-Ortega, N. C., González-Chávez, M. M., Figuroa-Brito, R., Flores-Macias, A., Romo-Asunción, D., Martínez-González, D. E., Pérez-Moreno, V. & Ramos-López, M. A. 1 May 2015 In : Molecules. 20, 5, p. 8048-8059 12 p.

Jiménez Aparicio Antonio Ruperto

1. Morpho-structural description of epidermal tissues related to pungency of *Capsicum* species
Sánchez-Segura, L., Téllez-Medina, D. I., Evangelista-Lozano, S., García-Armenta, E., Alamilla-Beltrán, L., Hernández-Sánchez, H., Jiménez-Aparicio, A. R. & Gutiérrez-López, G. F. 2015 In : Journal of Food Engineering. 152, p. 95-104 10 p.
2. Physical, physicochemical, mechanical, and structural characterization of films based on gelatin/glycerol and carbon nanotubes
Sifuentes-Nieves, I., Rendón-Villalobos, R., Jiménez-Aparicio, A., Camacho-Díaz, B. H., Gutiérrez López, G. F. & Solorza-Feria, J. 2015 In : International Journal of Polymer Science. 763931

Hernandez Lauzardo Ana Niurka

1. Influence of chitosan and its derivatives on cell development and physiology of *Ustilagomaydis*
Olicón-Hernández, D. R., Hernández-Lauzardo, A. N., Pardo, J. P., Peña, A., Velázquez-del Valle, M. G. & Guerra-Sánchez, G. 1 Aug 2015 In : International Journal of Biological Macromolecules. p. 654-660
2. **First report of *Colletotrichum godetiae* causing anthracnose on avocado in Mexico**

Hernández-Lauzardo, A. N., Campos-Martínez, A., Velázquez-Del Valle, M. G., Flores-Moctezuma, H. E., Suárez-Rodríguez, R. & Ramírez-Trujillo, J. A. 2015 In : PlantDisease. 99, 4, p. 555 1 p.

Jiménez Pérez Alfredo

2. Spatial analysis of mass trapping: How close is close enough?
Suckling, D. M., Stringer, L. D., Kean, J. M., Lo, P. L., Bell, V., Walker, J. T. S., Twidle, A. M., Jiménez-Pérez, A. & El-Sayed, A. M. 1 Oct 2015 In : Pest Management Science. 71, 10, p. 1452-1461 10 p.

Martínez Ayala Alma Leticia

1. LC-MS/MS analysis, antioxidant and anticholinergic properties of galanga (*AlpiniaofficinarumHance*) rhizomes
Köse, L. P., Gülçin, I., Gören, A. C., Namiesnik, J., Martinez-Ayala, A. L. & Gorinstein, S. 5 Nov 2015 In : Industrial Crops and Products.74, p. 712-721 10 p.
2. **Cytotoxic effect of the immunotoxin constructed of the ribosome-inactivating protein curcin and the monoclonal antibody against Her2 receptor on tumor cells**
Jaramillo-Quintero, L. P., De Oca, A. C. M., Rojas, A. R., Rojas-Hernández, S., Campos-Rodríguez, R. & Martínez-Ayala, A. L. 2015 In : Bioscience, Biotechnology and Biochemistry. 79, 6, p. 896-906 11 p.
3. Park, Y.S., Polovka, M., Martínez-Ayala, A.L., González-Aguilar, G.A., Kyung-Sik, H., Seong-Gook, K., Yang-Kyun, P., Buk-Gu, H, Namiesnik, J. and Gorinstein, S. 2015. Fluorescence studies by quenching and protein unfolding on the interaction of bioactive compounds in wáter extracts of kiwi fruit cultivars with human serum albumin. Journal of Luminescence, 160, 71-77. ISSN: 0022-2313
4. Martínez-Palma N., Martínez-Ayala, A. and Dávila-Ortíz, G. 2015. Determination of antioxidant and chelating activity of protein hydrolysates from spirulina (*Athrospira maxima*) obtained by simulated gastrointestinal digestion. *Revista Mexicana de IngenieríaQuímica*. 14, 1; 1-10

Montes Belmont Roberto

Effect of *Trichodermaasperellum* applications and mineral fertilization on growth promotion and the content of phenolic compounds and flavonoids in onions
Ortega-García, J. G., Montes-Belmont, R., Rodríguez-Monroy, M., Ramírez-Trujillo, J. A., Suárez-Rodríguez, R. & Sepúlveda-Jiménez, G. 12 Nov 2015 In : *ScientiaHorticulturae*. 195, p. 8-16 9 p., 6009

Nuñez Santiago María del Carmen

Physicochemical, digestibility and structural characteristics of starch isolated from banana cultivars
Agama-Acevedo, E., Nuñez-Santiago, M. C., Alvarez-Ramirez, J. & Bello-Pérez, L. A. 25 Jun 2015 In : *CarbohydratePolymers*. 124, p. 17-24 8 p. (Con Edith, ya esta).

Osorio Diaz Perla

1. Composición química, capacidad antioxidante y el efecto prebiótico del aguamiel (Agave atrovirens) durante su fermentación in vitro
Romero-López, M. R., Osorio-Díaz, P., Flores-Morales, A., Robledo, N. & Mora-Escobedo, R. 4 Aug 2015 In : Revista Mexicana de Ingeniera Quimica. 14, 2, p. 281-292 12 p.
2. Addition of acid-treated unripe plantain flour modified the starch digestibility, indigestible carbohydrate content and antioxidant capacity of semolina spaghetti
Almanza-Benitez, S., Osorio-Díaz, P., Méndez-Montealvo, G., Islas-Hernández, J. J. & Bello-Perez, L. A. 2015 In : LWT - Food Science and Technology. 62, 2, p. 1127-1133 7 p.

Quintero Gutierrez Adrian

(No hay publicaciones 2015)

Rendón Villalobos Rodolfo

(No hay publicaciones 2015)

Rodríguez González Francisco

Rod-like fluorescent halloysite nanotubes-silica composites: A novel colloidal system
Sánchez, R., Marín-Santibáñez, B. M., Pérez-González, J., Rodríguez-González, F. & Dorantes-Rosalese, H. J. 2015 In : Revista Mexicana de Fisica. 61, 2, p. 117-122 6 p.

Contribution to journal › Article

Rodriguez Monroy Francisco

1. Production of dihydroxylatedbetalains and dopamine in cell suspension cultures of celosia argentea var. Plumosa
Guadarrama-Flores, B., Rodriguez-Monroy, M., Cruz-Sosa, F., Garcia-Carmona, F. &Gandia-Herrero, F. 18 Mar 2015 In : Journal of Agricultural and Food Chemistry. 63, 10, p. 2741-2749 9 p.

Sepulveda Jimenez Gabriela

1. Physicochemical, shear flow behaviour and emulsifying properties of Acacia cochliacantha and Acacia farnesiana gums
Sibaja-Hernández, R., Román-Guerrero, A., Sepúlveda-Jiménez, G. & Rodríguez-Monroy, M. 1 May 2015 In : Industrial Crops and Products. 67, p. 161-168 8 p.
2. Nitrogen deficiency stimulates biosynthesis of bioactive phenylethanoid glycosides in the medicinal plant CastillejatenuifloraBenth.
Medina-Pérez, V., López-Laredo, A. R., Sepúlveda-Jiménez, G., Zamilpa, A. & Trejo-Tapia, G. 7 Apr 2015 In : Acta PhysiologiaePlantarum. 37, 5, p. 1-8 8 p.

Solarza Feria Javier

1. Antioxidant and chelating activity of nontoxic Jatropha curcas L. protein hydrolysates produced by in vitro digestion using pepsin and pancreatin
Gallegos Tintoré, S., Torres Fuentes, C., Solorza Feria, J., Alaiz, M., Girón Calle, J., Martínez Ayala, A. L., Chel Guerrero, L. &Vioque, J.2015 In : Journal of Chemistry. 2015, 190129

Trejo Tapia Gabriela

1. **A new furofuranlignandiglycoside and other secondary metabolites from the antidepressant extract of *Castillejatenuiflora* Benth**
Herrera-Ruiz, M., López-Rodríguez, R., Trejo-Tapia, G., Domínguez-Mendoza, B. E., González-Cortazar, M., Tortoriello, J. & Zamilpa, A. 1 Jul 2015 In : *Molecules*. 20, 7, p. 13127-13143 17 p.
2. **Potential hosts of *Castillejatenuiflora* (Orobanchaceae) and characterization of its haustoria**
Montes-Hernández, E., Sandoval-Zapotitla, E., Bermúdez-Torres, K. & Trejo-Tapia, G. 1 Jun 2015 In : *Flora: Morphology, Distribution, Functional Ecology of Plants*. 214, p. 11-16 6 p.

Velázquez Del Valle Miguel Gerardo

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Venegas Espinosa Pablo Emilio

(No hay publicaciones 2015)

Villanueva Sánchez Javier

(No hay publicaciones 2015)