



**ACADÉMICO:** Dra. Olivia Tzintzun Camacho

**ÁREA:** Biotecnología agrícola y ambiental

**CAMPO:** Biotecnología agrícola y biotecnología agroalimentaria

**DISCIPLINA:** Aprovechamiento de residuos agroindustriales

**LGAC:** Biotecnología Agrícola

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### ❖ FORMACIÓN ACADÉMICA

Doctorado en Biotecnología

### ❖ CUERPO ACADÉMICO

Biotecnología agropecuaria

### ❖ PROYECTOS

-Obtención de colorantes funcionales a partir de residuos agroindustriales.

-Tratamiento biológico de aguas residuales pecuarias: biocombustibles y aprovechamiento de nutrientes.

-Aprovechamiento biotecnológico de residuos agroindustriales para obtener biofungicidas, inoculantes, compuestos bioactivos, bioplásticos, recubrimientos alimenticios.

### ❖ PUBLICACIONES

- Abdelmoteleb, A., Gonzalez-Mendoza, D., **Tzintzun-Camacho, O.**, Grimaldo-Juárez, O., Mendez-Trujillo, V., Moreno-Cruz, C., Ceceña-Durán, C., Roumia, A. F. **2023**. Keratinases from streptomyces netropsis and bacillus subtilis and their potential use in the chicken feather degrading. *Fermentation*, 9(2). doi:10.3390/fermentation9020096
- Basilio-Cortes, U. A., **Tzintzun-Camacho, O.**, Grimaldo-Juárez, O., Durán-Hernández, D., Suarez-Vargas, A., Durán, C. C., Suarez-Vargas, A., Ceceña-Durán, C., Salazar-Navarro, A., González-Anguiano, L. A., González-Mendoza, D. **2023**. Impact of temperature on the bioactive compound content of aqueous extracts of humulus lupulus L. with different alpha and beta acid content: A new potential antifungal alternative. *Microbiology Research*, 14(1), 205-217. doi:10.3390/microbiolres14010017
- López-Valenzuela, B. E., **Tzintzun-Camacho, O.**, Armenta-Bojórquez, A. D., Valenzuela-Escoboza, F. A., Lizárraga-Sánchez, G. J., Ruelas-Islas, J. R., & González-Mendoza, D. **2022**. Microorganisms of genus trichoderma as phytohormone promoters and pathogen suppressors. *Bioagro*, 34(2), 163-172. doi:10.51372/bioagro342.6
- **Tzintzun-Camacho, O.**, Hernández-Jiménez, V., González-Mendoza, D., Pérez-Pérez, J. P., Troncoso-Rojas, R., Durán-Hernández, D., Moreno-Cruz, C. F. **2021**. Characterization of grape marc hydrolysates and their antifungal effect against phytopathogenic fungi of agricultural importance. *Chilean Journal of Agricultural Research*, 81(2), 151-160. doi:10.4067/S0718-58392021000200151
- Rogelio Solorzano-Toala, Daniel Gonzalez-Mendoza, Benjamin Valdez-Salas, Vianey MendezTrujillo, Federico Gutierrez-Miceli, Ernesto Beltran-Partida, **Olivia Tzintzun-Camacho**. **2020**. Green synthesis of silver nanoparticles using *Annona diversifolia* leaf extract and their antimicrobial application. *Journal of Renewable Materials*, 8(9): 1129-1137. DOI:10.32604/jrm.2020.09845

- Gonzalez-Mendoza, D., Valdez-Salas, B., Bernardo-Mazariegos, E., **Tzintzun-Camacho, O.**, Gutiérrez-Miceli, F., Ruíz-Valdiviezo, V., Rodríguez-Hernández, L., Sanchez-Viveros, G. **2019**. Influence of monometallic and bimetallic phytonanoparticles on physiological status of mesquite. *Open Life Sciences*, 14 (1): 62-68. DOI: 10.1515/biol-2019-0008. ISSN: 23915412
- **2019**. Mendez-Trujillo, V., Valdez-Salas, B., Carrillo-Beltran, M., Curiel-Alvarez, M.A., **Tzintzun-Camacho, O.**, Ceceña-Duran, C., Gonzalez-Mendoza, D. **2019**. Green synthesis of bimetallic nanoparticles from *Prosopis juliflora* (Sw) DC., and its effect against cotton mealybug, *Phenacoccus solenopsis* (hemiptera: Pseudococcidae). *Phyton*, 88 (3): 269-275. DOI: 10.32604/phyton.2019.07316. ISSN: 00319457
- Hernández-Martínez, R., Valdivia-Rivera, S., Betto-Sagahon, J., Coreño-Alonso, A., **Tzintzun-Camacho, O.**, Lizardi-Jiménez, M.A. **2019**. Solubilization and removal of petroleum hydrocarbons by a native microbial biomass in a bubble column reactor. *Revista Mexicana de Ingeniera Química*, 18 (1):181-189. DOI: 10.24275/UAM/IZT/DCBI/REVMEXINGQUIM/2019V18N1/HERNANDEZ. ISSN: 16652738
- Bernardo-Mazariegos, E., Valdez-Salas, B., González-Mendoza, D., Abdelmoteleb, A., **Tzintzun Camacho, O.**, Ceceña Duran, C., Gutiérrez-Miceli, F. **2019**. Silver nanoparticles from *Justicia spicigera* and their antimicrobial potentialities in the biocontrol of foodborne bacteria and phytopathogenic fungi. *Revista Argentina de Microbiología*, 51 (2):103-109.
- **Tzintzun-Camacho, O.**, Gutiérrez-Rojas, M., Torres-Martínez, D., Lizardi-Jiménez, M.A. **2018**. Gas hold up in the cultivation of a petroleum-degrading bacterial consortium. *Environmental Engineering and Management Journal*, 17 (5):1209-1216. DOI: 10.30638/eemj.2018.120 ISSN:15829596
- Gonzalez-Mendoza, D., Mendez-Trujillo, V., Grimaldo-Juarez, O., Ceceña-Duran, C., **Tzintzun –Camacho, O.**, Gutierrez-Miceli, F., Sanchez-Viveros, G., Aviles Marin, M. **2017**. Changes of photochemical efficiency and epidermal polyphenols content of *Prosopis glandulosa* and *Prosopis juliflora* leaves exposed to cadmium and copper. *Open Life Sciences*, 12: 373–378. DOI: <https://doi.org/10.1515/biol-2017-0043>. ISSN electrónico: 2391-5412
- Abdelmoteleb, A., Troncoso-Rojas, R., **Tzintzun-Camacho, O.**, González-Mendoza, D., Ceceña-Duran, C., Grimaldo-Juárez, O., Aviles-Marin, M., Duran-Hernández, D. **2017**. Biocontrol of *Fusarium* spp., causal agents of damping-off in cotton plants by native *Bacillus subtilis* isolated from *Prosopis juliflora*. *International Journal of Agriculture and Biology*, 19: 713–718. DOI: 10.17957/IJAB/15.0344. ISSN impreso: 15608530 y electrónico 18149596.
- Michel-Lopez, C., Zapata-Pérez, O., González-Mendoza, D., Grimaldo-Juarez, O., Ceceña-Duran, C., **Tzintzun-Camacho, O.** **2017**. Expression of metallothionein type 2 and 3 genes in *Prosopis glandulosa* leaves treated with copper. *Genetics and molecular research: GMR*, 16 (1): 1-4. DOI: 10.4238/gmr16019490. ISSN: 1676-5680
- Abdelmoteleb, A., Valdez-Salas, B., Ceceña-Duran, C., **Tzintzun-Camacho, O.**, Gutiérrez-Miceli, F., Grimaldo-Juarez, O., Gutiérrez-Miceli, D. **2017**. Silver nanoparticles from *Prosopis glandulosa* and their potential application as biocontrol of *Acinetobacter calcoaceticus* and *Bacillus cereus*. *Chemical Speciation and Bioavailability*, 29 (1): 1-5. DOI: <https://doi.org/10.1080/09542299.2016.1252693>. ISSN: 0954-2299 (Print) 2047-6523 (Online)
- **Tzintzun-Camacho, O.**, Sánchez-Segura, L., Minchaca-Acosta, A.Z., Rosales-Colunga, L.M., Hernández-Orihuela, A., Martínez-Antonio, A. **2016**. Development of bacterial culture medium from avocado seed waste. *Revista Mexicana de Ingeniería Química*, 15 (3): 831-842.
- **Olivia Tzintzun-Camacho**, Octavio Loera, Hugo C. Ramírez-Saad, Mariano Gutiérrez-Rojas. **2012**. Comparison of mechanisms of hexadecane uptake among pure and mixed cultures derived from a bacterial consortium. *International Biodeterioration and Biodegradation*, 70: 1-7. DOI: 10.1016/j.ibiod.2012.01.009. ISSN: 0964-8305

## ❖ DISTINCIONES

-Investigadora Nacional Nivel I

-Perfil PRODEP

-Medalla al mérito universitario (Licenciatura y Doctorado)