

CURRÍCULUM
vitae

DR. ISRAEL ENRIQUE
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Perfil PRODEP Preferente

SNI Nivel I

Profesor Investigador

Laboratorio de Genética Molecular de Hongos
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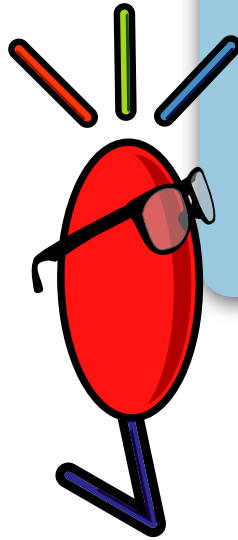
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Mi línea de investigación consiste en explorar la versatilidad del hongo *Metarhizium* con sus estilos de vida. Para lo cual estamos desarrollando herramientas moleculares, examinando la biodiversidad de aislados, estudiando los beneficios y el potencial biotecnológico de *Metarhizium*.

1. formación Académica

Doctorado

Universidad de Guanajuato
Guanajuato, Gto., México

Post-Doctoral

Brock University, St. Catharines
Ontario, Canadá

2. tesis

Tesis dirigidas:

- 4 tesis de Licenciatura
- 6 tesis de Maestría

Tesis en progreso:

- 3 tesis de Licenciatura
- 1 tesis de Maestría
- 2 tesis de Doctorado

3. ORCID ID

<https://orcid.org/0000-0002-7078-2664>

<https://scholar.google.com.mx/citations?user=z9Hb-Q0AAAAJ&hl=es&oi=sra>



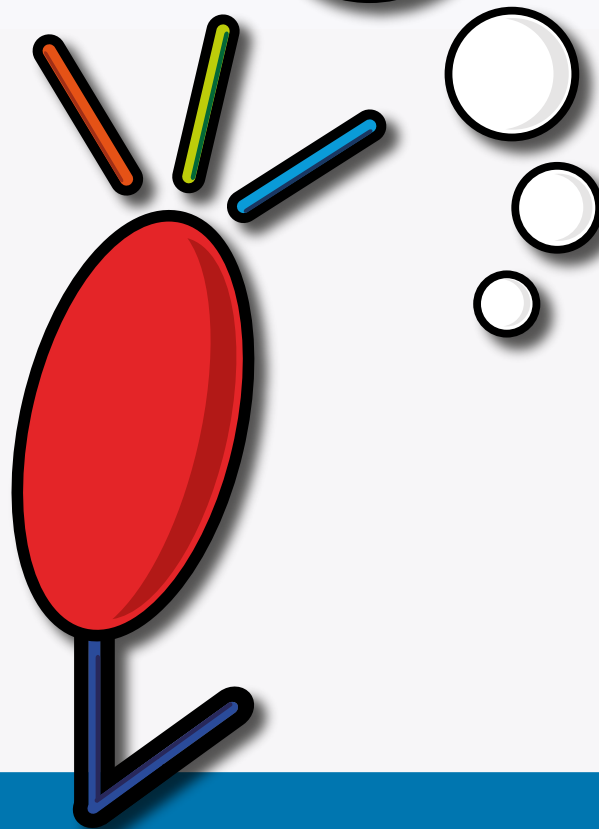


4. Publicaciones Recientes

- Quintero, K. Y. C., **Guerrero, I. E. P.**, Guzmán, J. C. T., Martínez, B. G. V., Félix, A. V., & Hernández, G. A. G. (2020). Members of the Nitronate Monooxygenase Gene Family from *Metarhizium brunneum* are Induced During the Process of Infection to *Plutella xylostella*. *Applied Microbiology and Biotechnology*, 21(3) 1-11.
- González Hernández, G. A., **Padilla Guerrero, I. E.**, Martínez Vázquez, A., & Torres Guzmán, J. C. (2020). Virulence Factors in the Entomopathogen Genus *Metarhizium*. *Current Protein & Peptide Science*.
- Steven Angelone, Iván Piña Torres, **Israel Padilla Guerrero**, Michael Bidochka. 2018. "Sleepers" And "Creepers": A Theoretical Study of Colony Polymorphisms in the Fungus *Metarhizium* Related to Insect Pathogenicity and Plant Rhizosphere Colonization. *Insects*, 9(3), 7.
- **Israel Enrique Padilla Guerrero** y Michael J. Bidochka. 2017. Agrobacterium-Mediated Co-Transformation of Multiple Genes in *Metarhizium robertsii*. Issn 1229-8093. *Mycobiology*. Vol. 45, Pag. 84–89.
- Nauru Idalia Vargas Maya, Gloria Angélica González Hernández, **Israel Enrique Padilla Guerrero** y Juan Carlos Torres Guzmán. 2016. Overexpression of SmorfYnr034w-A/Ego4 in *Saccharomyces cerevisiae* Increases the Fermentative Efficiency of Agave Tequilana Weber Must. Issn: 1367-5435. *Journal of Industrial Microbiology & Biotechnology*. Vol. 44, Pag. 63-74.
- Olga Alicia Callejas Negrete, Juan Carlos Torres Guzmán, **Israel Enrique Padilla Guerrero**, Ulises Esquivel Naranjo, María Fernanda Padilla Ballesteros, Adriana García Tapia, Augusto Schrank, Eduardo Salazar Solís, Félix Gutiérrez Corona, Gloria Angélica González Hernández, 2015. The Adh1 Gene of the Fungus *Metarhizium anisopliae* is Expressed During Insect Colonization and Required for Full Virulence. Issn: 0944-5013. *Microbiological Research*, Vol.172, Pag.57-67.
- Rocío Sánchez Herrera, Lérica Liss Flores Villavicencio, **Israel Enrique Padilla Guerrero**, Gloria Barbosa Sabanero, Myrna Sabanero López. 2015. Formación de Biopelículas en el Hongo Patógeno *Sporothrix schenckii*: Desarrollo, Arquitectura y Características Bioquímicas. Issn: 0188-6266. *Acta Universitaria Universidad De Guanajuato*, Vol.2, Pag.11-15.
- Scott W. Behie, **Israel E. Padilla Guerrero**, Michael J. Bidochka, Nutrient Transfer to Plants by Phylogenetically Diverse Fungi Suggests Convergent Evolutionary Strategies in Rhizospheric Symbionts. Issn: 1942-0889. *Communicative & Integrative Biology*, Vol.6.
- **Israel Enrique Padilla Guerrero**, Larissa Barelli, Gloria Angélica González Hernández, Juan Carlos Torres Guzmán, Michael J. Bidochka. Flexible Metabolism in *Metarhizium anisopliae* and *Beauveria bassiana*: Role of the Glyoxylate Cycle During Insect Pathogenesis. Issn: 1350-0872. *Microbiology*, Vol.157, Pag.199-208.
- Jaime Madrigal Pulido, **Israel Padilla Guerrero**, Isaura De J. Magaña Martínez, Briseida Cacho Valadez, Juan Carlos Torres Guzmán, Eduardo Salazar Solís, J. Félix Gutiérrez Corona, Augusto Schrank, Francisco Jiménez Bremont, Angélica González Hernández. Isolation, Characterization and Expression Analysis of the Ornithine Decarboxylase Gene (Odc1) of the Entomopathogenic Fungus, *Metarhizium anisopliae*. Issn: 0944-5013. *Microbiological Research*, Vol.166, Pag.494-507.
- Larissa Barelli, **Israel Enrique Padilla Guerrero**, Michael J. Bidochka. Differential Expression of Insect and Plant Specific Adhesin Genes, Mad1 And Mad2, in *Metarhizium robertsii*. Issn: 1878-6146. *Fungal Biology*, Vol.115, Pag.1174-1185.
- Claudia Erika Morales Hernández, **Israel Enrique Padilla Guerrero**, Gloria Angélica González Hernández, Eduardo Salazar Solís y Juan Carlos Torres Guzmán. Catalase Overexpression Reduces the Germination Time and Increases the Pathogenicity of the Fungus *Metarhizium anisopliae*. Issn: 0175-7598. *Applied Microbiology and Biotechnology*, Vol.87, Pag.1033-1044.



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