Currículum Vitae

Dr. Israel Enrique Padilla Guerrero

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PRODEP Profile

SNI Level I

Professor
Department of Biology
Division of Natural and Exact Sciences
University of Guanajuato
Campus Guanajuato
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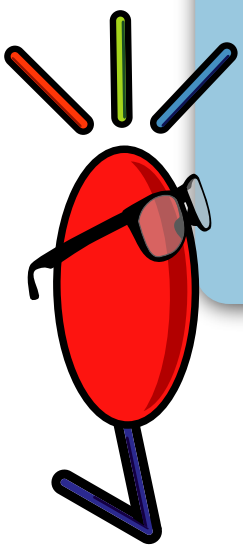


My line of research is to explore the versatility of the *Metarhizium* fungus with its lifestyles. For which we are developing molecular tools, examining the biodiversity of isolates, studying the benefits and biotechnological potential of *Metarhizium*.

1. Academic Degrees

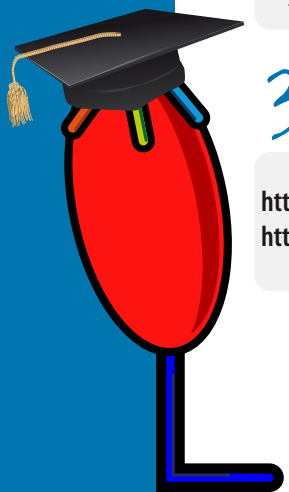
Doctorate
University of Guanajuato
Guanajuato, Gto., Mexico

Post-Doctoral
Brock University, St. Catharines
Ontario, Canadá

2. Theses

Directed theses:
- 4 Bachelor's theses
- 6 Master's theses

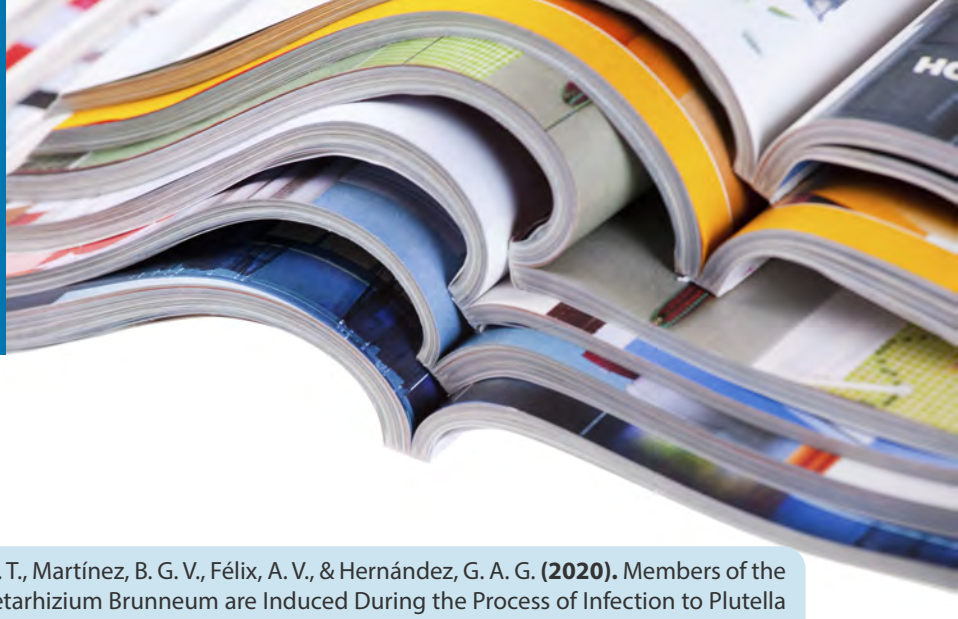
Theses in progress:
- 3 Bachelor's theses
- 1 Master's thesis
- 2 Doctoral theses.



3. ORCID iD

https://orcid.org/0000-0002-7078-2664
https://scholar.google.com.mx/citations?user=z9Hb-Q0AAAAJ&hl=es&oi=sra

Dr. Israel Enrique Padilla Guerrero



4. Recent Publications

• 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 Smorf Ynr034w-A/Ego4 in Saccharomyces Cerevisiae Increases the Fermentative Efficiency of Agave Tequilana Weber Must. Issn: 1367-5435. ***Journal of Industrial Microbiology & Biotecnology. 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 Insectcolonization and Required for Full Virulence. Issn: 0944-5013. ***Microbiological Research, Vol.172, Pag.57-67.***

• Rocío Sánchez Herrera, Lérida 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, University of Guanajuato, Vol.2, Pag.11-15.***

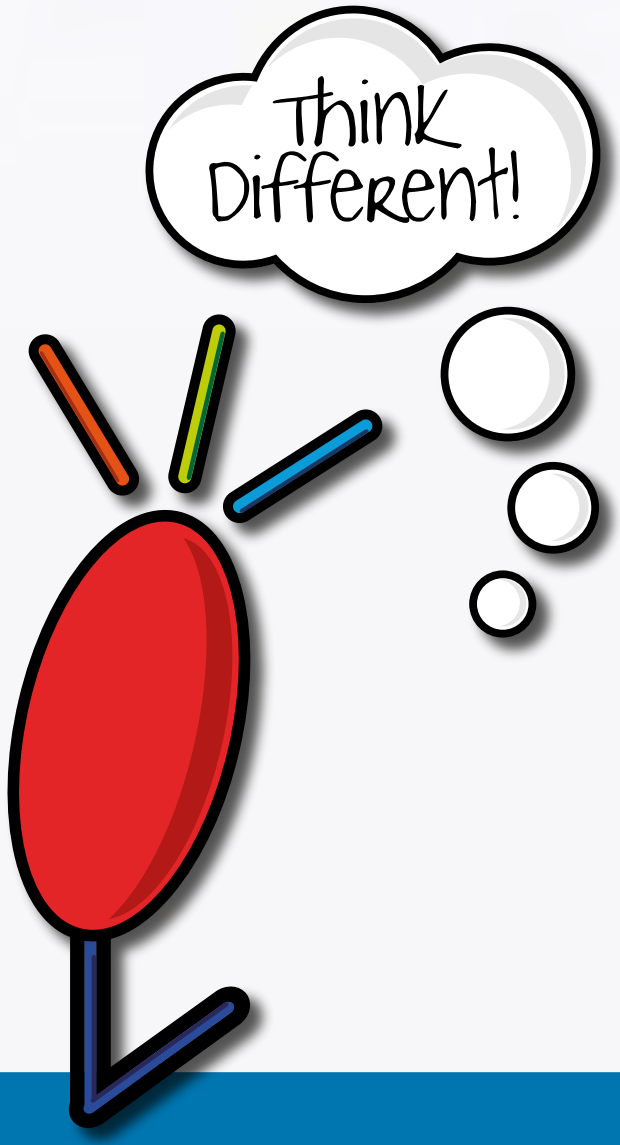
• Scott W. Behie, **Israel E. Padilla Guerrero,** Michael J. Bidochka, Nutrient Transfer to Plants by Phylogenetically Diverse Fungi Suggests Convergent Evolutionary Strategies in Rhizospheric Symbionts. Issn: 1942-0889. ***Communicative & Integrative Biology, Vol.6.***

• **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 Guzman, Eduardo Salazar Solis, 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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