

Dept Microbiología y Zoología Médica

8 Peer Reviewed publications

1. Borges-Vélez G, et al **Meléndez LM**. Decreased CSTB, RAGE and Axl receptor is associated with Zika infection in the human placenta. *Cells* 2022, 11, 3627. <https://doi.org/10.3390/cells11223627> (**Dr Loyda Melendez Lab**)
2. Reynoso-García, et al and **Godoy-Vitorino**, A complete guide to human microbiomes: body niches, transmission, development, dysbiosis and restoration, Front. Syst. Biol., 2022 22 July 2022, <https://doi.org/10.3389/fsysb.2022.951403> **All authors are grad students in human microbiome class (**Dr Godoy's Lab**)
3. Nguyen TT, et al **Godoy-Vitorino F** Reshaping the tumor microenvironment with oncolytic viruses, positive regulation of the immune synapse, and blockade of the immunosuppressive oncometabolic circuitry. *Journal for Immunotherapy of Cancer* PMID: 35902132 (**Dr Godoy's Lab**)
4. Dickerson, F., Dilmore, A.H., **Godoy-Vitorino, F.**, Nguyen, T.T., Paulus, M., Pinto-Tomas, A.A., Moya-Roman, C., Zuniga-Chaves, I., Severance, E.G., Jeste, D.V., 2022. The Microbiome and Mental Health Across the Lifespan, in: Curr Topics Behav Neurosci. PMID: 35947353 (**Dr Godoy's Lab**)
5. Sahana Kuthyar, Karli Watson, Shi Huang, Lauren J.N. Brent, Michael Platt, Julie Horvath, Janis Gonzalez, Melween Martínez, **Filipa Godoy-Vitorino**, Limited microbiome differences in captive and semi-wild primate populations consuming similar diets, FEMS Microbiology Ecology, 2022 PMID: 36047944 (**Dr Godoy's Lab**)
6. Ortiz Ana P., **Acosta-Pagán Kimil T** **Godoy-Vitorino Filipa**; *Oral microbiota and periodontitis severity among Hispanic adults*, Frontiers in Cellular and Infection Microbiology 12,2022, (**Dr Godoy's Lab**)
7. Sandra Lee, Benjamin Bolanos-Rosero, Leran Wang, Filipa Godoy-Vitorino, Nicolás Rosario Matos, Leyao Wang, **Prenatal exposure to Hurricane Maria is associated with an altered infant nasal microbiome** J Allergy Clin Immunol Glob. 2022 August (**Collab Bolaños and Godoy**)
8. Measurement Report: An Exploratory Study of Fluorescence and CCN Activity of Urban Aerosols in San Juan Puerto Rico Benjamin Bolanos Rosero. Mendeley, DOI: 10.17632/t26dctfk7t.1 (**Bolaños Lab**)



ORIGINAL RESEARCH
published: 05 July 2022
doi: 10.3389/fmicb.2022.951403

The Bacterial and Fungal Gut Microbiota of the Greater Wax Moth *Galleria mellonella* L. Consuming Polyethylene and Polystyrene

Juliana M. Ruiz Barrionuevo^{1,2}, Brayan Vilanova-Cuevas¹, Analía Alvarez^{1,4}, Eduardo Martín^{1,5}, Agustina Malizia¹, Alberto Galindo-Cardona^{1,6}, Ricardo E. de M. Angélica Occhioneri¹, Adriana Chalup^{1,7}, A. Carolina Montmayor-García¹ and Filipa Godoy-Vitorino^{1*}

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Oncolytic and local immunotherapy
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Reshaping the tumor microenvironment with oncolytic viruses, positive regulation of the immune synapse, and blockade of the immunosuppressive oncometabolic circuitry

Journal for Immunotherapy of Cancer
pp 1–22 | Cite as

The Microbiome and Mental Health

Teresa T. Nguyen^{1,2}, Dong Ho Shin^{1,2}, Faith Dickerson³, Amanda Hazel Dilmore³, Filipa Godoy-Vitorino⁴, Adrian A. Pinto-Tomas⁵, Cristófer Moya-Roman⁶, Ibrahim Jesta⁷, Gomez-Manzano^{1,2} and Juan Fueyo^{1,2} Chapter | First Online: 11 August 2022

Correspondence to Dr Juan Fueyo: fueyo@mdanderson.org; Dr Candelaria Gomez-Manzano: cmanzano@mdar

Check for updates

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EDITED BY: Javier Suarez, Jagiellonian University, Poland
Dina Sharma, Stanford Healthcare, United States

REVIEWED BY: Filipa Godoy-Vitorino, FEMS Microbiology Ecology

SPECIALTY SECTION: This article was submitted to Integrative Genetics and Genomics, a section of the journal Frontiers in Systems Biology

RECEIVED 24 May 2022

A complete guide to human microbiomes: Body niches, transmission, development, dysbiosis, and restoration

Jelissa Reynoso-García¹, Angel E. Miranda-Santiago², Natalie M. Meléndez-Vázquez³, Kimil Acosta-Pagán⁴, Mitchell Sánchez-Rosado⁵, Jennifer Díaz-Rivera⁶, Angélica M. Rosado-Quinones^{1,2}, Luis Acevedo-Márquez⁷, Lorna Cruz-Roldán⁸, Eduardo L. Tosado-Rodríguez⁹, María Del Mar Figueroa-Gispert¹⁰ and Filipa Godoy-Vitorino^{1*}

¹Department of Biology, UPR Río Piedras Campus, San Juan, PR, United States; ²Department of Microbiology and Medical Zoology, UPR School of Medicine, San Juan, PR, United States

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JOURNAL ARTICLE

Limited microbiome differences in captive and semi-wild primate populations consuming similar diets

HHS Public Access
Author manuscript
J Allergy Clin Immunol Glob. Author manuscript; available in PMC 2022 September 09.

Published in final edited form as:
J Allergy Clin Immunol Glob. 2022 August ; 1(3): 128–137. doi:10.1016/j.jacig.2022.05.001.

Prenatal exposure to Hurricane Maria is associated with an altered infant nasal microbiome

Sandra Lee, MPH, RD¹, Ai Zhang, MS², Midnela Acevedo Flores, MD³, David de Angel Solá, MD⁴, Lijuan Cao, PhD⁵, Benjamin Bolanos-Rosero, PhD⁶, Leran Wang, MS⁷, Filipa Godoy-Vitorino, PhD⁸, Nicolás Rosario Matos, MD⁹, Leyao Wang, PhD, MPH¹⁰

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Dept Microbiología y Zoología Medica

22 Conferences, Posters and Seminars

- 5 Conference Presentations -(Local, national, Int) – **Serrano's Lab**
- 3 Conference Presentations -(National) **Dorta's Lab**
- 2 Conference Presentations -(National) **Loyda's Lab**
- 3 Conference Presentations -(Local/National) **Bolaños Lab (1 as keynote speaker)**
- 9 Conference Presentations - (Local, national, Int) **Godoy's lab**

(3 as keynote speaker)

Primera
HORA

Noticias • Consumo

Se reúnen líderes en ciencia, investigación y tecnología de Puerto Rico y el Caribe

El Forward Research Symposium celebró su cumbre anual para acelerar la actividad científica en la isla y el área caribeña.



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SACNAS

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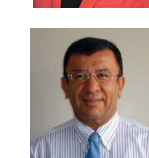
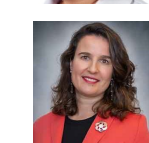
SIMPOSIO DE AEROBIOLOGÍA

- Conferencia Magistral: Dr. Benjamín Bolaños, PhD.
- Los estudiantes del curso CIBI 4105 (Secc. 003-004) presentarán sus seminarios finales de investigación

COMPARTE ESTA EXPERIENCIA CIENTÍFICA

Viernes 9 de Diciembre 2022
Auditorio 2- Estudios Generales
8:00 AM- 4:00 PM

ACOMPÁÑANOS



Awards and Honors

- Dr Godoy appointed **Honorary Fellow of Applied Microbiology International** / Society for Applied Microbiology (UK) <https://sfam.org.uk/> for her contributions to the understanding of biodiversity and expanding Microbiology in the Caribbean Region
- 2022 **Travel Award** International Society for Microbial Ecology Lausanne Switzerland to Eduardo Tosado
- 2022 Eduardo Tosado **2nd place Graduate Poster** Competition, American Association for the Advancement of Sciences (AAAS) Caribbean Division
- 2022 Elif Kardas received the **Mitel Award** for her poster “Life history traits, in addition to Social Behaviour, influence gut microbiota of bees in Puerto Rico”, oct 2022 Forward Research Symposium

Applied Microbiology International



Eduardo Tosado 2nd place
Graduate Poster AAAS
ISME Lausanne Travel Award



Elif Kardas Mitel Award

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6 new Grant Awards

DORTA's Lab

U54 CA096297 UPR/MDACC IMPACT Dorta (PI) 09/01/2022 – 08/30/2024

Title: Immune and microbial signatures for treatment response in Hispanics with cervical cancer

Amount: \$60,000/year

U54GM133807 Alliance Dorta (PI) 10/03/2022 – 09/30/2022

Title: Interplay between microbial and immune cells in HPV-positive oropharyngeal cancer

Amount: \$50,000

GODOY's Lab

U54 CA096297 UPR/MDACC IMPACT GODOY(PI) 09/01/2022 – 08/30/2024

Title: The gut microbiome as a therapeutic strategy for modulating the efficacy of viroimmunotherapy against malignant glioma

Amount: \$120,000/year

2U54MD007600-36 8538 RCMI GODOY(PI) 9/20/2022 – 5/31/23

Title: The Microbiome as a risk factor for hr-HPV persistence and Cervical Cancer

Amount: \$319,086

1R21ES034191-01 NIH-NIEHS SIERRA D/GODOY-VITORINO (MPI) 09/01/2022-09/ -08/ 2024

Title: Effects of environmental contaminants on anxiety-like and fear behaviors, and gut microbiota in rodents

Amount: \$409,750

BOLANOS Lab Abarca Better Community Health. \$10,000

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Bolaños Lab:

Special Activities and service

- AAAAI International Aerobiology Course Asunción Paraguay. Aug 28, 2022
- TOTAAL App will report the Caguas station in addition to the San Juan. With the support of the Abarca programmers volunteer work
- Formal collaboration with Caguas City Major and SANOS for the transport of the slide of the Caguas station.

Serrano's Lab:

- Expert International Evaluator; PhD Program in Salud y Desarrollo en los Trópicos, U de Salamanca, España
- Ad hoc Reviewer for PRHSJ, ASM Spectrum

Godoy's Lab:

- NIH STUDY SECTION: Center for Scientific Review Special Emphasis Panel PAR21-326 Modern Equipment for Shared-use Biomedical Research Facilities: Advancing Research-Related Operations R24
- Editorial Board member Microbes and Infection (IF 9.5)
- Invited co-author of Human Microbiome chapter in Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, 10th edition
- Invited member Sigma Xi