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Curriculum Vitae

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Education

Year	Degree	Field	Institution
1984	BSC	Biology	University Simón Bolívar, Venezuela
1986	MSc	Animal Nutrition	University of Aberdeen, Scotland
1990	PhD	Microbiology	University of Aberdeen, Scotland

Postdoctoral Training

1993-4	Post-Doctoral fellow, EU Marie Curie Scholarship, Institute National de la Recherche Agronomique, France, and Rowett Research Institute, Scotland.
1997-8	Ramon y Cajal Postdoctoral Fellow, Centro de Biología Molecular Severo Ochoa, University Autonoma of Madrid, Spain.

Academic Appointments

1990-1993	Resident Researcher, Venezuelan Institute of Scientific Research (IVIC), Caracas, Venezuela.
1993-2000	Associate Professor/Researcher, Venezuelan Institute of Scientific Research (IVIC), Caracas, Venezuela.
2000-2003	Professor/Researcher, Venezuelan Institute of Scientific Research (IVIC), Caracas, Venezuela.
2003-2011	Associate Professor, Department of Biology, University of Puerto Rico, Rio Piedras.
2012-2014	Professor, Department of Biology, University of Puerto Rico, Rio Piedras (leave of absence, Aug 2012-July 2014).
2012-2017	Associate Professor, New York University School of Medicine, New York, NY.
2015,2017, 2019	Visiting Professor, Gulbenkian Institute, Portugal
2018-present	Henry Rutgers Professor of Microbiome and Health, Rutgers University, New Brunswick, NJ.
2018-Present	Interim Director, Institute for Food Nutrition and Health (IFNH), Rutgers University, New Brunswick, NJ.

Other Professional Positions and Visiting Appointments

1990	Visiting Scientist, Institut National de la Recherche Agronomique, Centre de Clermont-Ferrand, Theix, France.
1991	Visiting Scientist, Department of Animal Sciences, Purdue University, West Lafayette IN.
1996	Visiting Scientist, Bailey Hortorium, Cornell University, Ithaca NY.
2000-2001	Visiting scientist, Duke Marine Laboratory, Duke University, Beaufort NC.
2009	Visiting Professor, University of Cagliari, Sardinia, Italy.
2013-2014	Visiting Researcher, Venezuelan Institute of Scientific Research (IVIC), Caracas, VZ.
2013-2014	Visiting Researcher, Department of Biology, University of Puerto Rico, Rio Piedras.
2016-2019	Visiting Researcher, Department of Anthropology, New York University.
2017	Visiting Professor, Rutgers University, New Brunswick.

2018--present	Executive Board Member, Center for Human Evolutionary Studies (CHES), Rutgers University
2019-present	Faculty member, Rutgers Cancer Institute of New Jersey.
2020-present	Core Faculty Member, Rutgers Global Health Institute.
2020-2023	Member of the Board of Editors of <i>mBio</i>
2019-present	CIFAR Advisor of Global Scholars.

Awards and Honors

1985	Gran Mariscal de Ayacucho Foundation Graduate fellowship, University Central de Venezuela.
1985-1986	British Council Graduate fellowship, University of Aberdeen, Scotland.
1986-1989	Foreign and Commonwealth Office Graduate fellowship. University of Aberdeen, Scotland.
1990-1991	CONICIT Fellowship for Resident Researcher, Venezuela.
1990-2004	CONICIT Program for Research Promotion, Venezuela.
1993	EU Marie Curie Fellowship, Rowett Institute-Scotland, INRA Theix, France.
1993	International Foundation for Science Roi Baudouin Award, Sweden.
1997-1998	Spanish Ministry of Education and Science, CSIC postdoctoral fellowship. Center of Molecular Biology Severo Ochoa, University Autonoma of Madrid, Spain.
2002	Venezuelan Institute of Scientific Research Medal of Merit, Venezuela.
2008	Infectious Diseases Society of America Fellow (FIDSA).
2008-2011	American Society for Microbiology Ambassador for the Central American and Caribbean region.
2013-present	American Academy of Microbiology Fellow (AAM).
2015	Arturo Carrion Award, Puerto Rico Society of Microbiology
2018- -present	American Society for Microbiology Council on Microbial Sciences (COMS), Division Interdisciplinary Councilor
2019-present	Academy of Sciences of Latin America Fellow (ACAL)

University, National, International Committee Assignments

1994-1997	Graduate Studies in Physiology and Biophysics, Vice-coordinator, Venezuelan Institute of Scientific Research (IVIC), Venezuela.
1994-present	Scientific Advisor, International Foundation for Science, Sweden.
1995-2000	Member of the Institutional Committee of Human Rights, IVIC.
1996-2000	Orinoquia Research Prize, Jury, Venezuela.
1998-2000	Member, Committee for Academic Promotions, IVIC
1998-2000	Member, Housing Committee, IVIC.
1998-2000	Member, Personnel Committee, IVIC.
1998-2009	Member, International Advisory Committee, International Symposium on the Nutrition of Herbivores.
1999-2002	Member, Latin American Network for Research in Bioactive Natural Compounds
1999-2000	Member of Directive of the Association of Researchers, IVIC.
2000	Expert Referee, Alban Program, European Union.
2002	Member, Jury for the "Francisco de Venanzi" Prize for outstanding research career, Central University, Venezuela
2004-2014	Research Fellow, Molecular, Ecology, Evolution and Genetics, Center for Applied Ecology and Conservation, University of Puerto Rico (UPR).
2005-2007	Member, Graduate Committee, Program of Graduate studies in Biology, UPR.
2007-2009	Member, Committee on Academic Affairs, UPR.
2008-2010	Member, Recruitment committee,, Department of Biology, UPR.
2008-2009	Member, Biology Graduate Program Committee, Department of Biology, UPR
2009-2010	Spanish translation network, MicrobeWorld Podcasts, American Society for Microbiology

2009-2010	Member, Academic Issues Committee, Department of Biology, UPR.
2010- 2012	Member, Personnel Committee, Department of Biology, UPR.
2011- 2012	Secretary, Faculty of Sciences Personnel Committee, UPR.
2010- present	Member, Scientific Committee, PhD School in Biology and Biochemistry of Man and the Environment, University of Cagliari, Sardinia, Italy
2013-2016	Member, AAM-EMD Millipore Alice C. Evans Award Nominations Committee
2013-present	Reviewer, Institute of Medicine Workshop Reports and Summaries.
2012-present	Collaborator, American Gut Project, the world's largest open-source, community driven effort to characterize the microbial diversity of humans.
2013-present	Scientific Advisory Board Human Microbiome Exhibition. EdenProject, UK.
2013-present	Collaborating Faculty NYU School of Medicine International Health Program (research projects: Latin America).
2014-2015	NSF Peer Review panel
2014-present	Scientific Advisory Board, The American Microbiome Institute.
2015	Member, External Scientific Advisory Committee for NIH U19, U Washington
2015-2018	Faculty Member, Sackler Institute, NYU School of Medicine
2016-2018	Co-Founder and Scientific Advisory Board Member of Commense, Inc., Boston MA
2016-2017	Faculty Mentoring Committee for Kelly Ruggles, NYU School of Medicine
2018	Member of the Appointments and Promotions Committee, School of Environmental and Biological Sciences and New Jersey Agricultural Experiment Station, Rutgers University.
2019-present	Member of Rutgers University Graduate Programs: Microbial Biology Graduate Program, Nutritional Sciences Graduate Program.
2018-present	Member of the Research Oversight Committee, Childhood Asthma and the Microbiome- Precision Health for Life: The Canadian Healthy Infant Longitudinal Development (CHILD) Study. University of British Columbia, Vancouver, Canada.
2018-present	Member of the Nominating Committee, Microbial Biology Graduate Program Department of Biochemistry and Microbiology, Rutgers University.
2019-present	Chair of the External Advisory Committee for a Center for Biomedical Research Excellence (COBRE), University of Hawaii at Manoa, Hawaii

Memberships, Committee Assignments, Professional Societies

2004-08	Research Committee, Infectious Disease Society of America.
2011-present	International Society for Microbial Ecology (ISME)
2004-present	American Society for Microbiology (ASM)
2013-2016	AAM - EMD Millipore Alice C. Evans Award Nominations Committee
2016-present	American Academy of Microbiology (AAM) Committee on Elections
2016-present	American Association for the Advancement of Science (AAAS)
2016-present	American Anthropological Association (AAA)
2017-present	International Society for Developmental Origins of Health and Disease (DOHaD)
2017	Organizing Committee, National Academies of Sciences, Engineering, and Medicine, Forum on Microbial Threats workshop "Urbanization and Slums: New Transmission Pathways of Infectious Diseases in the Built Environment"
2018-2021	Councilor, Division Interdisciplinary, ASM Council on Microbial Sciences (COMS)
2018-present	Founder member of the "Microbiota Vault"
2019-present	Member of the New Jersey Breastfeeding Coalition

Editorial Positions

2007-2015	Associate Editor, <i>Livestock Science</i>
2011-2014	Associate Editor, <i>Microbial Ecology</i>
2013-2015	Associate Editor, <i>Frontiers in Microbiology</i>
2013-2015	Associate Editor, <i>Microbes and Infection</i>

2015-2019 Associate Editor, *Scientific Reports*
2014-present Associate Editor, *mBio*

Ad Hoc Reviewer

American Journal of Tropical Medicine and Hygiene; Applied and Environmental Microbiology; Archives of Medical Research; Biology Letters; BMC Genomics; BMC Ecology; British Journal of Nutrition; Cancer Research; Clinical Diagnostic and Laboratory Immunology; Expert Review of Molecular Diagnostics; FASEB Journal; FEMS Microbial Ecology; Frontiers Microbiology, Infection, Genetics and Evolution, Helicobacter; Interciencia; ISME Journal; Journal of Agriculture and Food Chemistry; Journal of Clinical Microbiology; Journal of Comparative Physiology B; Journal of Medical Microbiology; Journal of Pediatric Gastroenterology and Nutrition; Livestock Science; MBio; Microbes and Infection; Nature; Nature Communications; Neonatology; Pathogens and Global Health; Physiological and Biochemical Zoology; PLoS Pathogens; PLoS-One, Reproductive Science, Science Advances, Science Translational Medicine, The Auk, Yearbook of Physical Anthropology

Grant Proposals Reviewer

Alban Program, European Union; Genesis Oncology Trust, New Zealand; International Foundation for Science, Sweden; National Fund for Science and Technology, Venezuela; Center for International Agriculture, Switzerland; National Science Foundation, Switzerland; Wellcome Trust, UK; National Agency for Research and Innovation (ANII), Uruguay; National Science Foundation, USA.

Major Research Interests

The human microbiome and impact of urbanization; microbiome development and evolution; microbial ecology.

Research Statement

My research is centered on the development of the microbiome and the impact on host phenotypes, of early life perturbations -such as practices that reduce microbial transmission, colonization or that disrupt the microbiota- and strategies for restoration. Our work also comprises characterizing changes in lifestyles with urbanization and modern practices that may be stressors of the microbiome. We explore complex biological interactions with an interdisciplinary approach integrating the fields of immunology, pediatrics, nutrition, anthropology, environmental engineering and architecture/urban studies, into microbial ecology, to understand associations between microbes and diseases that have roots in early development.

Bibliography

Original Reports

1. Michelangeli F, Ruiz M, Dominguez MG, Parthe V. Mammalian-like differentiation of gastric cells in the shark *Hexanchus griseus*. **Cell and Tissue Research**. **1988**. 251:225-227. PMID: 3342441 ; <https://doi.org/10.1007/bf00215469>
2. Grajal A, Strahl SD, Parra R, Dominguez MG, Neher A. Foregut fermentation in the Hoatzin, a neotropical leaf-eating bird. **Science**. **1989**. 245:1236-1238. PMID: 17747887 ; <https://doi.org/10.1126/science.245.4923.1236>
3. Dominguez-Bello MG, Stewart CS. Degradation of 3-(OH)-4(1)H pyridone from the rumen of sheep in Venezuela. **FEMS Microbial Ecology**. **1990**. 73:283-290. <https://doi.org/10.1111/j.1574-6968.1990.tb03951.x>
4. Dominguez-Bello MG, Stewart CS. Effects of feeding *Canavalia ensiformis* on the rumen flora of sheep, and of the toxic amino acid canavanine on rumen bacteria. **Systematic and Applied Microbiology**. **1990**. 13:388-393. [https://doi.org/10.1016/S0723-2020\(11\)80238-9](https://doi.org/10.1016/S0723-2020(11)80238-9)

5. Dominguez-Bello MG, Stewart CS. Characteristics of a rumen *Clostridium* capable of degrading mimosine, 3 hydroxy 4(1H)pyridine and 2,3 dihydroxypyridone. **Systematic and Applied Microbiology**. 1991. 14:67-71. [https://doi.org/10.1016/S0723-2020\(11\)80363-2](https://doi.org/10.1016/S0723-2020(11)80363-2)
6. Dominguez-Bello MG, Robinson MD. A comparative study of nutritional adaptations in two Cricetid rodents. **Physiological Zoology**. 1991. 64:1542-1551.
7. Sevcik C, Brito JC, D'Suze G, Mijares AJ, Dominguez MG. Estudio sobre toxicología del Síndrome Parapléjico de los bovinos. **Acta Científica Venezolana**. 1993. 44:131-142. PMID: 8085407
8. Sevcik C, Brito JC, D'Suze G, Domínguez-Bello MG, Lovera M, Mijares AJ, Bónoli S. Toxicology of a bovine paraplegic syndrome. **Toxicon**. 1993 Dec;31(12):1581-94. PMID: 8146871 ; [https://doi.org/10.1016/0041-0101\(93\)90342-g](https://doi.org/10.1016/0041-0101(93)90342-g).
9. Dominguez-Bello MG, Lovera M, Suárez P, Michelangeli F. Microbial digestive symbionts of the crop of the hoatzin (*Opisthocomus hoazin*): the only foregut fermenter avian. **Physiological Zoology**. 1993. 66:374-383. <https://www.jstor.org/stable/30163698>
10. Dominguez-Bello MG, Jouany JP, Chemello ME, Michelangeli F. Cytotoxicity in MA-104 cells and rumen protozoa of some phytotoxins and their effect on fermentation by faunated and defaunated rumen inocula. **Journal of Agricultural and Food Chemistry**. 1993. 41 (11): 2045-2050. <https://doi.org/10.1021/jf00035a044>
11. Dominguez-Bello MG, Michelangeli F, Ruiz MC. Evolutionary significance of foregut fermentation in the hoatzin (*Opisthocomus hoazin*, Aves, Opisthocomidae). **Journal of Comparative Physiology Series B**. 1993. 163: 594-601. <https://doi.org/10.1007/BF00302119>
12. Sevcik C, Brito JC, D'Suze G, Dominguez-Bello MG, Lovera M, Mijares A, Bonoli, E. Toxinology of bovine paraplegic syndrome. **Toxicon**. 1993;31(12):1581-1594. PMID: 8146871 ; [https://doi.org/10.1016/0041-0101\(93\)90342-g](https://doi.org/10.1016/0041-0101(93)90342-g)
13. Dominguez-Bello, M.G., Lovera, M. Sevcik, C. Brito, J.C. Characterization of ruminal bacteria producing a toxin associated with a bovine paraplegic syndrome. **Toxicon**. 1993;31(12):1595-1600. PMID: 8146872 ; [https://doi.org/10.1016/0041-0101\(93\)90343-h](https://doi.org/10.1016/0041-0101(93)90343-h)
14. Yurman D, Dominguez-Bello MG. Bacteria present in the gut of two neotropicalCephalotini ants,Cephalotes atratus and Zacryptocerus cf.pusillus. **Folia Microbiologica**. 1993. 38: 515-518. <https://link.springer.com/article/10.1007/BF02814406>
15. Dominguez-Bello MG, Michelangeli F, Ruiz MC, García A, Rodríguez E. Ecology of the folivorous avian hoatzin (*Opisthocomus hoazin*) in the Venezuelan plains. **The Auk**. 1994. 111: 643-651. <https://doi.org/10.1093/auk/111.3.643>
16. Ruiz MC, Dominguez-Bello MG, Michelangeli F. Gastric lysozyme in the hoatzin (*Opisthocomus hoazin*), an avian folivore. **Experientia**. 1994. 50: 499-501. <https://doi.org/10.1007/BF01920757>
17. Borges P, Herrera E, Dominguez-Bello MG. Digestive physiology of wild capybara. **Journal of Comparative Physiology Series B**. 1996. 165:166:55-60. <https://doi.org/10.1007/BF00264639>
18. Dominguez-Bello MG. Detoxification in the rumen. **Annals de Zootechnie**. 1996. 45:323-327. <https://doi.org/10.1051/animres:19960663>
19. Dominguez-Bello MG, Escobar A. Manipulation of gut bacteria for the improved utilization of tropical forages. **Animal Feed Science and Technology**. 1997. 69:91-102. [https://doi.org/10.1016/S0377-8401\(97\)81625-2](https://doi.org/10.1016/S0377-8401(97)81625-2)
20. Dominguez-Bello MG, Michelangeli F, Romero R, Beker B, Lara D, Morera C, Vezga MA, Spardella E, Guelrud M, Pérez ME, Pericchi LR. Modification of Christensen urease test as an inexpensive tool for detection of *Helicobacter pylori*. **Diagnostic Microbiology & Infectious**

Disease. 1997;28(3):149-152. PMID: 9294705 ; [https://doi.org/10.1016/s0732-8893\(97\)00041-2](https://doi.org/10.1016/s0732-8893(97)00041-2).

21. Dominguez-Bello MG, Lovera M, Rincon MT. Characteristics of degradation of dihydroxypyridine by *Sinergistes joneesii*. **FEMS Microbiology Ecology**. 1997. 23: 361-365. <https://doi.org/10.1111/j.1574-6941.1997.tb00417.x>
22. Rincon MT, Allison MJ, Michelangeli F, De Sanctis Y, Dominguez-Bello MG. Anaerobic degradation of mimosine-derived dihydroxypyridines by cell free extracts of the rumen bacterium *S. joneesii*. **FEMS Microbiology Ecology**. 1998. 27(2):127-132. <https://doi.org/10.1111/j.1574-6941.1998.tb00530.x>
23. Dominguez-Bello MG, Rincon MT, Lovera M. Degradation of dihydroxypyridine by the rumen bacterium *Sinergistes joneesii*. **Revista Científica Universidad del Zulia**. 1998. 15:64-68.
24. Dominguez-Bello, MG, Escobar, A. Rumen manipulation for the improved utilization of tropical forages. **Animal Feed Science and Technology**, 1997. 69 (1-3):91-102. [https://doi.org/10.1016/S0377-8401\(97\)81625-2](https://doi.org/10.1016/S0377-8401(97)81625-2)
25. Costa K, Bacher G, Allmaier G, Dominguez-Bello MG, Engstrand L, Falk P, de Pedro MA, Garcia-del Portillo F. The morphological transition of *Helicobacter pylori* cells from spiral to coccoid is preceded by a substantial modification of the cell wall. **Journal of Bacteriology**. 1999; 181(12):3710-3715. PMID: 10368145 ; <https://doi.org/10.1128/JB.181.12.3710-3715.1999>
26. Rincon, MT; Dominguez-Bello, MG; Lovera, M; Romero, R. Degradation of toxic piridinediols derived from mimosine by rumen bacteria: I. Microbiological aspects. **Revista Científica Universidad del Zulia**. 2000;10(3):222-232.
27. Jones RJ, García Amado MA, Dominguez-Bello MG. Comparison of the digestive ability of crop fluid from the folivorous Hoatzin (*Opisthocomus hoazin*) and cow rumen fluid on seven tropical forages. **Animal Feed Science & Technology**. 2000;87(3-4):287-296. [https://doi.org/10.1016/S0377-8401\(00\)00199-1](https://doi.org/10.1016/S0377-8401(00)00199-1)
28. Dominguez-Bello MG, Reyes N, Teppa-Garrán A, Romero R. Interference of *Pseudomonas* strains in the identification of *H. pylori*. **Journal of Clinical Microbiology**. 2000. 38: 937. PMID: 10722321 ; <https://doi.org/10.1128/JCM.38.2.937-937.2000>
29. Dominguez-Bello MG, Cienfuentes C, Romero R, García P, Gómez I, Mago V, Reyes N, Gueneau de Novoa, P. PCR detection of *Helicobacter pylori* in string absorbed-gastric juice. **FEMS Microbiology Letters**. 2001;198(1):15-16. PMID:11325547 ; <https://doi.org/10.1111/j.1574-6968.2001.tb10612.x>
30. Pacheco N, Mago V, Gomez I, Gueneau P, Guelrud M, Reyes N, Pericchi LR, Dominguez-Bello MG. Comparison of PCR and common clinical tests for the diagnosis of *H. pylori* in Dyspeptic patients. **Diagnostic microbiology & infectious disease**. 2001;39(4):207-210. PMID: 11404061 ; [https://doi.org/10.1016/s0732-8893\(01\)00228-0](https://doi.org/10.1016/s0732-8893(01)00228-0)
31. Dominguez-Bello MG, Beker B, Guelrud M, Vivas J, Peraza S, Pérez ME, Pericchi LR. Socioeconomic and seasonal variations of *H. pylori* infection in patients in Venezuela. **American Journal of Tropical Medicine & Hygiene**. 2002;66(1):49-51. <https://doi.org/10.1111/j.1574-6968.2001.tb10612.x>
32. Gueneau P, Fuenmayor J, Aristimuñoz C, Cedeño S, Baez E, Reyes N, Michelangeli F, Dominguez-Bello MG. Are goats naturally resistant to *Helicobacter* gastric infection? **Veterinary microbiology**. 2002;84(1-2):115-121. PMID: 11731164 ; [https://doi.org/10.1016/s0378-1135\(01\)00443-6](https://doi.org/10.1016/s0378-1135(01)00443-6)
33. Dominguez-Bello, M.G. *Helicobacter pylori*: Papel del polimorfismo genético de cepas y huéspedes, en la patogénesis. **Gen** 2002. 56:114-118.

34. Ghose C, Perez-Perez GI, Dominguez-Bello MG, Pride DT, Bravi CM, Blaser MJ. East Asian genotypes of *Helicobacter pylori* strains in Amerindians provide evidence for its ancient human carriage. **Proceedings of the National Academy of Sciences of the United States of America (PNAS)**. 2002;99(23):15107-15111. PMID: 12417749 ; <https://doi.org/10.1073/pnas.242574599>
35. Pacheco MA, García MA, Bosque C, Dominguez-Bello MG. Bacteria colonizing the crop of the Green-rumped parrotlets *Forpus passerinus*. **Tropical and Subtropical Agroecosystems**. 2003; 3:591-593.
36. García MA, Gueneau P, Michelangeli F, Dominguez-Bello MG. Rate of detoxification of Quillaja saponins by crop bacteria from *Opisthocomus hoazin* is increased in the presence of methanogenic bacteria. **Tropical and Subtropical Agroecosystems**. 2003; 3:595-598.
37. Pacheco MA, Garcia-Amado MA, Bosque C, Dominguez- Bello MG. Bacteria in the crop of the seed-eating green-rumped parrotlet. **Condor**. 2004;106(1):139-143. <https://doi.org/10.1650/7406>
38. Dominguez-Bello, MG; Pacheco, MA; Ruiz, MC; Michelangeli, F; Leippe, M; de Pedro, MA. Resistance of rumen bacteria murein to bovine gastric lysozyme. **BMC Ecology**. 2004;4:7-7. PMID: 15137912 ; <https://doi.org/10.1186/1472-6785-4-7>.
39. Aspholm M, Dailide G, Ilver D, Lahmann M, Roche R, Vikström S, Sjöström R, Lindén S, Arnqvist A, Mahdavi J, Nilsson U.L, Velapatiño B, Gilman R.H, Gerhard M, Alarcon T, López-Brea M, Nakazawa T, Parkinson AJ, Fox J, Correa P, Dominguez Bello MG, Perez-Perez GI, Blaser MJ, Normark S, Carlstedt I, Oscarson S, Teneberg S, Berg DE, Borén T. Functional Adaptation in adherence and ethnic tropism by *Helicobacter pylori*. **Science**. 2004;305(5683):519-522. PMID: 15273394 ; <https://doi.org/10.1126/science.1098801>
40. García-Amado MA, del Castillo JR, Perez ME, Dominguez-Bello MG. Intestinal D-glucose and L-alanine transport in the Japanese Quail (*Coturnix coturnix*). **Poultry Science**. 2005;84(6):947-950. PMID: 15971535 ; <https://doi.org/10.1093/ps/84.6.947>
41. Ghose C, Perez-Perez G, van Doorn LJ, Dominguez-Bello MG, Blaser MJ. High frequency of gastric colonization with multiple *Helicobacter pylori* strains in Venezuelan subjects. **Journal of clinical microbiology**. 2005;43(6):2635-2641. PMID: 15956377 ; <https://doi.org/10.1128/JCM.43.6.2635-2641>
42. Dominguez-Bello MG, Aguiar RE, García-Amado MA, Michelangeli F. Consumption of toxic plants by the Hoazin. **Journal of Animal & Feed Sciences**. 2007;16:302-306. <https://doi.org/10.22358/jafs/74512/2007>
43. García-Amado, MA, Michelangeli F, Gueneau P, Perez ME, Dominguez-Bello MG. Bacterial detoxification of saponins in the crop of the avian foregut fermenter *Opisthocomus hoazin*. **Journal of Animal & Feed Sciences**. 2007;16:82-85. <https://doi.org/10.22358/jafs/74460/2007>
44. Pacheco MA, Concepcion JA, Rosales Rangel JD, Ruiz MC, Michelangeli F, Dominguez-Bello MG. Stomach lysozymes of the three-toed sloth (*Bradypus variegatus*), an arboreal folivore from the Neotropics. **Comparative Biochemistry & Physiology. Pt. A**. 2007;147(3):808-819. PMID: 16959513 ; <https://doi.org/10.1016/j.cbpa.2006.07.010>
45. Marini E, Maldonado A, Cabras S, Hidalgo G, Buffa R, Marin A, Flores G, Racugno W, Pericchi LR, Castellanos ME, Groeschl M, Blaser MJ, Dominguez-Bello MG. *Helicobacter pylori* and intestinal parasites are not detrimental to the nutritional status of Amerindians. **American Fournal of Tropical Medicine & Hygiene**. 2007;76(3):534-540. PMID: 17360880
46. García-Amado MA, Al-Soud WA, Borges-Landaéz P, Contreras M, Cedeño S, Baéz-Ramírez E, Dominguez-Bello MG, Wadström T, Gueneau P. Non-pylori *Helicobacteraceae* in the upper digestive tract of asymptomatic Venezuelan subjects: detection of *Helicobacter cetorum*-like

- and *Candidatus Wolinella africanus*-like DNA. **Helicobacter**. 2007;12(5):553-558. PMID: 17760725 ; <https://doi.org/10.1111/j.1523-5378.2007.00526.x>
47. Dominguez-Bello, M. G., and A. L. Maldonado. "Population dynamics and Restriction-Modification (RM) systems in *Helicobacter pylori*." **Zoonoses and Public Health**. 2007: 54. 9600.
 48. Contreras M, Pujol F, Perez-Perez G, Michelangeli F, Marini E, Ponce L, Dominguez-Bello MG. *H. pylori* seroprevalence in Amerindians from isolated locations. **American Journal of Tropical Medicine & Hygiene**. 2008;78(4):574-576. PMID: 18385351
 49. Dominguez-Bello MG, Blaser MJ. Do you have a probiotic in your future? **Microbes & infection**. 2008;10(9):1072-1076. PMID: 18762263 ; <https://doi.org/10.1016/j.micinf.2008.07.036>
 50. Godoy-Vitorino F, Ley RE, Gao Z, Pei Z, Ortiz-Zuazaga H, Pericchi LR, Garcia-Amado MA, Michelangeli F, Blaser MJ, Gordon JI, Dominguez-Bello M.G. The crop bacterial community of the hoatzin, a neotropical folivorous flying bird. **Applied & Environmental Microbiology**. 2008;74(19):5905-5912. PMID: 18689523 ; <https://doi.org/10.1128/AEM.00574-08>
 51. Dominguez-Bello MG, Pérez ME, Bortolini MC, Salzano FM, Pericchi LR, Zambrano-Guzmán O, Linz B. Amerindian *Helicobacter pylori* strains go extinct, as European strains expand their host range. **PLoS one**. 2008;3(10):e3307-e3307. PMID: 18830403 ; <https://doi.org/10.1371/journal.pone.0003307>
 52. Buffa R, Baali A, Lahmam A, Amor H, Zouini M, Floris G, Racugno W, Dominguez-Bello MG, Marini E. Assessment of nutritional status in the Amazigh children of Amizmiz (Azgour Valley, High Atlas and Morocco). **Journal of Tropical Pediatrics**. 2009;55(6):406-408. PMID: 19447822; 19447822 ; <https://doi.org/10.1093/tropej/fmp032>
 53. Godoy-Vitorino F, Goldfarb KC, Brodie EL, Garcia-Amado MA, Michelangeli F, Dominguez-Bello MG. Developmental Microbial Ecology of the Crop of the Folivorous Hoatzin. **ISME Journal**. 2010;4(5):611-620. PMID: 20130656 ; <https://doi.org/10.1038/ismej.2009.147>
 54. Mane SP, Dominguez-Bello MG, Blaser MJ, Sobral BW, Hontecillas R, Skoneczka J, et al. Host-interactive genes in Amerindian *Helicobacter pylori* diverge from their Old World homologs and mediate inflammatory responses. **Journal of Bacteriology**. 2010;192(12):3078-3092. PMID: 20400544 ; <https://doi.org/10.1128/JB.00063-10>
 55. Dominguez-Bello MG, Costello EK, Contreras M, Magris M, Hidalgo G, Fierer N, Knight JR. Delivery mode shapes the acquisition and structure of the initial microbiota across multiple body habitats in newborns. **Proceedings of the National Academy of Sciences of the United States of America (PNAS)**. 2010;107(26):11971-11975. PMID: 20566857 ; <https://doi.org/10.1073/pnas.1002601107>
 56. Contreras M, Costello EK, Hidalgo G, Magris M, Knight R, Dominguez-Bello MG. The bacterial microbiota in the oral mucosa of rural Amerindians. **Microbiology**. 2010;156(Pt 11):3282-3287. PMID: 20847007 ; <https://doi.org/10.1099/mic.0.043174-0>
 57. Maldonado-Contreras AL, Goldfarb KC, Godoy-Vitorino F, Karaoz U, Contreras M, Blaser MJ, Brodie, EL and Dominguez-Bello MG. Structure of the human gastric bacterial community in relation to *Helicobacter pylori* status. **ISME journal**. 2011;5(4):574-579. PMID: 20927139 ; <https://doi.org/10.1038/ismej.2010.149>
 58. Dominguez-Bello MG, Blaser MJ, Ley RE, and Knight R. Development of the human gastrointestinal microbiota and insights from high-throughput sequencing, **Gastroenterology**. 2011;140(6):1713-1719. PMID: 21530737 ; <https://doi.org/10.1053/j.gastro.2011.02.011>

59. Dominguez-Bello MG and Blaser MJ. Microbes as markers for migrations of individuals and human populations. **Annual review of anthropology.** **2011**;40:451-474. <https://doi.org/10.1146/annurev-anthro-081309-145711>
60. Delgado-Rosado G, Dominguez-Bello MG and Massey SE. Positive selection on a bacterial oncoprotein associated with gastric cancer. **Gut pathogens.** **2011**;3:18-18. PMID: 22078307 ; <https://doi.org/10.1186/1757-4749-3-18>
61. Godoy-Vitorino F, Goldfarb KC, Karaoz U, Leal S, Garcia-Amado MA, Hugenholtz P, Tringe SG, Brodie EL and Dominguez-Bello MG. Comparative analyses of foregut and hindgut bacterial communities in hoatzins and cows. **ISME J.** **2011**; 6: 531-41. PMID: 21938024 ; <https://doi.org/10.1038/ismej.2011.131>.
62. De Jesús-Laboy, K, Godoy-Vitorino F, Piceno YM, Tom LM, Pantoja-Feliciano IG, Rivera-Rivera MJ, Andersen GL, Domínguez-Bello MG. Comparison of the fecal microbiota in feral and domestic goats. **Genes.** **2011**;3(1):1-18. PMID: 24704840 ; <https://doi.org/10.3390/genes3010001>
63. García-Amado MA, Godoy-Vitorino F, Piceno YM, Tom LM, Andersen GL, Herrera EA, and Domínguez-Bello MG. Bacterial diversity in the cecum of the world's largest living rodent (*Hydrochoerus hydrochaeris*). **Microbial Ecology.** **2012**;63(4):719-725. PMID: 22083250 ; <https://doi.org/10.1007/s00248-011-9963-z>
64. Godoy-Vitorino F, Leal SJ, Diaz WA, Rosales J, Goldfarb KC, Garcia-Amado MA, Michelangeli FA, Brodie E, Domínguez-Bello MG. Differences in the crop bacterial community structure between hoatzins from different geographical locations. **Research in Microbiology.** **2012**;163(3):211-220. PMID: 22313738 ; <https://doi.org/10.1016/j.resmic.2012.01.001>
65. Bassaganya-Riera J, Dominguez-Bello MG, Kronsteiner B, Carbo A, Viladomiu M, Pedragosa M, Zhang X, Sobral BW, Mane SP, Mohapatra SK, Horne WT, Guri AJ, Groeschl M, Lopez-Velasco G, and Hontecillas R. *Helicobacter pylori* colonization ameliorates glucose homeostasis through a PPAR -dependent mechanism. **PLoS one.** **2012**;7(11):e50069-e50069. PMID: 23166823 ; <https://doi.org/10.1371/journal.pone.0050069>
66. Yatsunenko T, Rey F, Manary M, Trehan I, Dominguez-Bello MG, Contreras M, Magris M, Hidalgo G, Baldassano RN, Anokhin AP, Heath AC, Warner B, Reeder J, Kuczynski J, Caporaso JG, Lozupone C, Lauber C, Clemente JC, Knights D, Knight R, Gordon JI. Human gut microbiome viewed across age and geography. **Nature.** **2012**;486(7402):222-227. PMID: 22699611 ; <https://doi.org/10.1038/nature11053>
67. Kienesberger S, Perez-Perez GI, Rivera-Correa JL, Tosado-Acevedo R, Li H, Dubois A, Gonzalez-Martinez JA, Dominguez Bello MG, Blaser MJ. Serologic host response to *Helicobacter pylori* and *Campylobacter jejuni* in socially housed Rhesus macaques (*Macaca mulatta*). **Gut pathogens.** **2012**;4(1):9-9. PMID: 22920270 ; <https://doi.org/10.1186/1757-4749-4-9>
68. Blaser MJ, Dominguez-Bello MG, Contreras M, Magris M, Hidalgo G, Estrada I, Gao Z, Clemente JC, Costello EK, Knight R. Distinct cutaneous bacterial assemblages in a sampling of South American Amerindians and United States residents. **ISME Journal.** **2013**;7(1):85-95. PMID: 22895161 ; <https://doi.org/10.1038/ismej.2012.81>
69. Song, SJ, Dominguez-Bello MG, Knight R. How delivery mode and feeding can shape the bacterial community in the infant gut. **CMAJ (Canadian Medical Association Journal).** **2013**;185(5):373-374. <https://doi.org/10.1503/cmaj.130147>
70. Alicea-Serrano AM, Contreras M, Magris M, Hidalgo G, Dominguez-Bello MG. Tetracycline resistance genes acquired at birth. **Archives of microbiology.** **2013**;195(6):447-451. PMID: 23483141 ; <https://doi.org/10.1007/s00203-012-0864-4>

71. Pantoja-Feliciano IG, Clemente JC, Costello EK, PerezME, Blaser MJ, Knight R, Dominguez-Bello MG. Biphasic assembly of the murine intestinal microbiota during early development. **ISME journal**. **2013**;7(6):1112-1115. PMID: 23535917 ; <https://doi.org/10.1038/ismej.2013.15>
72. Maldonado-Contreras A, Shrinivasrao MP, Zhang X, Pericchi L, Alarcón T, Contreras M, Linz B, Blaser MJ, Domínguez-Bello M. Phylogeographic evidence of cognate recognition site patterns and transformation efficiency differences in *H. pylori*: theory of strain dominance. **BMC Microbiology**. **2013**;13:211-211. PMID: 24050390 ; <https://doi.org/10.1186/1471-2180-13-211>
73. Gilbert, JA, Ball, M, Blainey, P, Blaser, MJ, Bohannon, B, Bateman, A, Bunge, J, Dominguez-Bello, MG, Epstein, S, Fierer, N, Gevers, D, Girkscheit, T, Hamdan, LJ, Harvey, J, Huttenhower, C, Kirkup, B, Kong, H, Lauber, C, Lemon, KP, Lynch, SV, Martin, L, Mello, C, Palma, J, Parker, R, Petrosino, J, Segre, JA, Voss hall, L, Yi, R, Knight, R. Meeting report for the 1st skin microbiota workshop, boulder, co October 15-16 2012. **Standards in genomic sciences**. **2014**;9(1). <https://doi.org/10.1186/1944-2D3277-2D9-2D13>
74. Mejía-León M, Petrosino J, Ajami N, Dominguez-Bello M, Calderón de la Barca A. Fecal microbiota imbalance in Mexican children with type 1 diabetes. **Nature Scientific Reports**. **2014**;4:3814-3814. PMID: 24448554 ; <https://doi.org/10.1038/srep03814>
75. Hashi K, Murata-Kamiya N, Varon C, Megraud F, Dominguez-Bello MG , Hatakeyama M. Natural variant of the *Helicobacter pylori* CagA oncoprotein that lost the ability to interact with PAR1. **Cancer Science**. **2014**;105(3):245-251. PMID: 24354359 ; <https://doi.org/10.1111/cas.12342>
76. Ravel J, Blaser MJ, Braun B, Brown E, Bushman FD, Chang EB, Davies J, Dewey KG, Dinan T, Dominguez-Bello M, Erdman SE, Finlay BB, Garrett WS, Huffnagle GB, Huttenhower C, Jansson J, Jeffery IB, Jobin C, Khoruts A, Kong HH, Lampe JW, Ley RE, Littman DR, Mazmanian SK, Mills DA, Neish AS, Petrof E, Relman DA, Rhodes R, Turnbaugh PJ, Young VB, Knight R, and White O. Human microbiome science: vision for the future, Bethesda, MD, July 24 to 26, 2013. **Microbiome**. **2014**; 2: 16. <https://doi.org/10.1186/2049-2618-2-16>
77. Hidalgo G; Marini E; Sanchez W; Contreras M; Estrada I, Buffa R; Magris M; Dominguez-Bello MG. The nutrition transition in the Venezuelan Amazonia: increased overweight and obesity with transculturation. **Am J Human Biol**. **2014**; 26(5):710-2. PMID: 24889785 ; <https://doi.org/10.1002/ajhb.22567>
78. Zhang, et al (70 authors including the Avian Genome, Consortium, and Dominguez-Bello MG). Comparative genomics reveals insights into avian genome evolution and adaptation. **Science** **2014**. 346 (6215): 1261-1424. <https://doi.org/10.1126/science.1251385>
79. Marini E, Buffa R, Contreras M, Magris M, Hidalgo G, Sanchez W, Ortiz V, Urbaez M, Cabras S, Blaser MJ, Dominguez-Bello MG. Effect of influenza-induced fever on human bioimpedance values. **PLoS One**. **2015**;10(4):e0125301-e0125301. PMID: 25915945 ; <https://doi.org/10.1371/journal.pone.0125301>
80. Mueller NT, Bakacs E, Combellick J, Grigoryan Z, Dominguez-Bello MG. The infant microbiome development: mom matters. **Trends in molecular medicine**. **2015**;21(2):109-117. PMID: 25578246 ; <https://doi.org/10.1016/j.molmed.2014.12.002>
81. Mueller NT, Whyatt R, Hoepner L, Oberfield S , Dominguez-Bello MG, Widen EM, Hassoun A, Perera F, Rundle A. Prenatal exposure to antibiotics, cesarean section, and risk of childhood obesity. **Intl J. Obesity International journal of obesity**. **2015**;39(4):665-670. PMID: 25298276 ; <https://doi.org/10.1038/ijo.2014.180>
82. Wahlqvist ML, Krawetz SA, Rizzo NS, Dominguez-Bello MG, Szymanski LM, Barkin S, Yatkin A, Waterland RA, Mennella JA, Desai M, Ross MG, Krebs NF, Young BE, Wardle J, Wrann CD, Kral JG. Early-life influences on obesity: from preconception to adolescence. **Annals of**

- the New York Academy of Sciences.** **2015:**1347:1-28. PMID: 26037603 ; <https://doi.org/10.1111/nyas.12778>
83. Clemente JC, Pehrsson E.C, Blaser MJ, Sandhu K, Gao Z, Wang B, Magris M, Hidalgo G, Contreras M, Noya-Alarcón O, Lander O, McDonald J, Cox M, Walter J, Oh PL, Ruiz JF, Rodriguez S, Shen N, Song SJ, Metcalf J, Knight R, Dantas G, Dominguez-Bello MG. The Microbiome of Uncontacted Amerindians. **Science Advances.** **2015:**1(3). PMID: 26229982 ; <https://doi.org/10.1126/sciadv.1500183>
 84. Morou-Bermudez E., Rodriguez S.M., Bello A.S., Dominguez-Bello MG. The Impact of urease on the Microbiome of Dental Plaque in Children. **PLoS ONE.** **2015:**10(9):e0139315-e0139315. PMID: 26418220 ; <https://doi.org/10.1371/journal.pone.0139315>
 85. Shin S, Pei Z, Martinez KA, Rivera-Vinas JI, Mendez K, Cavallin H, Dominguez-Bello MG. The first microbial environment of infants born by C-section: The operating room microbes. **Microbiome.** **2015:** 3:59-59. PMID: 26620712 ; <https://doi.org/10.1186/s40168-015-0126-1>
 86. Ruiz-Calderon JF, Cavallin H, Song AS, Novoselac A, Pericchi LR, Hernandez JN, Rios R, Branch OR, Pereira H, Paulino LC, Blaser MJ, Knight R, Dominguez-Bello MG. Walls talk: Microbial Biogeography of Homes Spanning Urbanization. **Science Advances.** **2016:** 2(2):e1501061-e1501061. PMID: 26933683 ; <https://doi.org/10.1126/sciadv.1501061>
 87. Amato, KR, Martinez-Mota R, Righini N, Raguet-Schofield M, Corcione FP, Marini E, Humphrey G, Gogul G, Gaffney J, Lovelace E, Williams L, Luong A, Dominguez-Bello MG, Stumpf RM, White B, Nelson KE, Knight R, Leigh SR. Phylogenetic and ecological factors impact the gut microbiota of two Neotropical primate species. **Oecologia.** **2016:**180(3):717-733. PMID: 26597549 ; <https://doi.org/10.1007/s00442-015-3507-z>
 88. Dominguez-Bello MG, De Jesus-Laboy KM, Shen N, Cox LM, Amir A, Gonzalez A, Bokulich NA, Song SJ, Hoashi M, Rivera-Vina JI, Mendez K, Knight R, Clemente JC. Partial restoration of the microbiota of cesarean-born infants via vaginal microbial transfer. **Nature Medicine.** **2016:** 22(3):250-253. PMID: 26828196 ; <https://doi.org/10.1038/nm.4039>
 89. Shin H, Price K, Albert L, Dodick J, Park L, Dominguez-Bello MG. Changes in the eye microbiota associated with contact lens wearing. **mBio.** **2016:**7(2):e00198-e00198. PMID: 27006462 ; <https://doi.org/10.1128/mBio.00198-16>
 90. Mueller NT, Shin H, Pizoni A, Werlang IC, Matte U, Goldani MZ, Goldani HAS, Dominguez-Bello MG. Birth mode-dependent association between pre-pregnancy maternal weight status and the neonatal intestinal microbiome. **Nature Scientific Reports.** **2016:** 6:23133-23133. PMID: 27033998 ; <https://doi.org/10.1038/srep23133>
 91. Bokulich NA, Chung J, Henderson N, Jay M, Battaglia T, Perez-Perez G, Chen Y, Schweizer W, Contreras M, Dominguez-Bello, MG, Blaser MJ. Antibiotics, birth mode and diet shape microbiome maturation during early life. **Science Translational Medicine.** **2016:** 8(343):343ra82-343ra82. PMID: 27306664 ; <https://doi.org/10.1126/scitranslmed.aad7121>
 92. Dominguez-Bello MG, Peterson D, Noya-Alarcon O, Bevilacqua M, Rojas N, Rodríguez R, Alango Pinto S, Baallow R and Caballero-Arias H. Ethics of exploring the microbiome of native peoples. **Nature Microbiology.** **2016:** 1(7):16097-16097. PMID: 27572978 ; <https://doi.org/10.1038/NMICROBIOL.2016.97>
 93. Hoashi M, Meche L, Mahal LK, Bakacs E, Nardella D, Naftolin F, Bar-Yam N, Dominguez-Bello MG. Human Milk Bacterial and Glycosylation Patterns Differ by Delivery Mode. **Reproductive Sciences.** **2016:** 23(7):902-907. PMID: 26711314 ; <https://doi.org/10.1177/1933719115623645>
 94. Nelson, DB, Shin H, Wu J, Dominguez-Bello MG. The Gestational Vaginal Microbiome and Spontaneous Preterm Birth among Nulliparous African American Women. **American Journal**

- of **Perinatology**. **2016**;33(9):887-893. PMID: 27057772 ; <https://doi.org/10.1055/s-0036-1581057>
95. Dominguez-Bello MG. A Microbial Anthropologist in the Jungle. **Cell**. **2016**;167(3):588-594. PMID: 27768879 ; <https://doi.org/10.1016/j.cell.2016.09.047>
 96. Bik HM, Maritz JM, Luong A, Shin H, Dominguez-Bello MG, Carlton JM. Microbial community patterns associated with Automated Teller Machine (ATM) keypads in New York City. **mSphere**. **2016**;1(6). PMID: 27904880 ; <https://doi.org/10.1128/mSphere.00226-16>
 97. Blaser, MJ; Dominguez-Bello, MG. 'The Human Microbiome before Birth'. **Cell Host & Microbe**. **2016**;20(5):558-560. PMID:27832586 ; <https://doi.org/10.1016/j.chom.2016.10.014>
 98. Mueller, N T; Mao, G; Bennet, W; Hourigan, S; Dominguez-Bello, M G; Appel, L J; Wang, X. Does vaginal delivery mitigate or strengthen the intergenerational association of overweight and obesity? Findings from the boston birth cohort. **International Journal of Obesity** **2017**; 41(4):497-501. PMID: 27899809 ; <https://doi.org/10.1038/jio.2016.219>
 99. Bardele C, Schultheiss S Wright AD, Dominguez-Bello MG, Obispo NE, Lynn DH. *Aviisotricha hoazini* n. gen., n. sp., the morphology and molecular phylogeny of an anaerobic ciliate from the crop of the hoatzin (*Opisthocomus hoazin*), the cow among the birds. **Protist**. **2017**;168(3):335-351. PMID: 28554152 ; <https://doi.org/10.1016/j.protis.2017.02.002>
 100. Smits SA, Leach J, Sonnenburg ED, Gonzalez CG, Lichtman J.S, Reid G, Knight R, Manjurano A, Chagalucha J, Elias JE, Dominguez-Bello MG, and Sonnenburg JL. Seasonal Cycling in the Gut Microbiome of the Hadza Hunter-Gatherers of Tanzania. **Science**. **2017**; 357(6353):802-806. PMID: 28839072 ; <https://doi.org/10.1126/science.aan4834>
 101. Thompson LR, Sanders JG, McDonald D, Amir A, Ladau J, Locey KJ, Prill RJ, Tripathi A, Gibbons SM, Ackermann G, Navas-Molina JA, Janssen S, Kopylova E, Vázquez-Baeza Y, González A, Morton JT, Mirarab S, Xu ZZ, Jiang L, Haroon MF, Kanbar J, Zhu Q, Song SJ, Kosciolk T, Bokulich NA, Lefler J, Brislawn CJ, Humphrey G, Owens SM, Hampton-Marcell J, Berg-Lyons D, McKenzie V, Fierer N, Fuhrman JA, Clauset A, Stevens RL, Shade A, Pollard KS, Goodwin JD, Jansson JK, Gilbert JA, Knight R & The Earth Microbiome Project Consortium. A communal catalogue reveals Earth's multiscale microbial diversity. **Nature** **2017**, 551: 457–463, PMID: 29088705 ; <https://doi.org/10.1038/nature24621>.
 102. Martinez II KA, Devlin JC, Lacher CR, Yin Y, Cai Y, Wang J, **Dominguez-Bello MG**. Increased weight gain by C-section: functional significance of the primordial microbiome. **Science Advances**. **2017**; 3:eaa01874. <https://doi.org/10.1126/sciadv.aao1874>
 103. Mueller NT, Shin H, Pizoni A, Werlang IC, Matte U, Goldani M, Goldani HAS, and Dominguez-Bello MG. Impact of Cesarean Delivery on Neonatal Gut Microbiota Structure, Delivery Mode and the Transition of Pioneering Gut-Microbiota Structure, Composition and Predicted Metabolic Function. **Genes** **2017**; 8, 364; <https://doi.org/10.3390/genes812036>
 104. Ward TL, Dominguez-Bello MG, Heisel T, Al-Ghalith G, Knights D, Gale CA. Development of the human mycobiome over the first month of life and across body sites. **mSystems** **2018**, 3 (3): e00140-17. PMID: 29546248 ; <https://doi.org/10.1128/mSystems.00140-17>
 105. García-Amado, ME, Shin H, Sanz V, Lentino M, Martínez M, Contreras M, Michelangeli F, Domínguez-Bello MG. Comparison of Gizzard and Intestinal Microbiota of Wild Neotropical Birds. **PLoS One** **2018**, 0194857. PMID: 29579092 ; <https://doi.org/10.1371/journal.pone.0194857>.
 106. Vargas-Robles D, M, Morales M, de Koningc MNC, Rodríguez I, Nieves T, Godoy-Vitorino F, Sánchez GI, Alcaraz LD, Forney LJ, Pérez ME, García-Briceño L, van Doorn L, Domínguez-Bello MG. High Rate of Infection by Only Oncogenic Human Papillomavirus in Amerindians. **mSphere** **2018** 3(3): e00176-18. PMID: 29720524 ; <https://doi.org/10.1128/mSphere.00176-18>.

107. Martinez KA, Romano-Keeler J, Moore DJ, Brucker M. Bacterial DNA is present in the fetal intestine and overlaps with that in the placenta in mice **PLoS One** **2018**, D-17-43953R2. PMID: 29771989 ; <https://doi.org/10.1371/journal.pone.0197439>.
108. Debelius JW, McDonald D, Ackermann G, Fahimpour AK, Gilbert JA, Green JL, Gonzalez A, Huttenhower C, Hyde E, Kelley ST, DKnight, Ladau J, Morgan X, Navas-Molina J, Montassier E, Rahnavard G, Pollard KS, Sangwan N, Shorenstein J, Thompson L, Thackray V, Wischmeyer P, The American Gut Consortium, Knight R. American Gut: an Open Platform for Citizen-Science Microbiome Research. **mSystems** **2018**, 3(3):e00031-18. PMID: 29795809 ; <https://doi.org/10.1128/mSystems.00060-18>.
109. Ruggles KV, Wang J, Volkova A, Contreras M, Noya-Alarcon O, Lander O, Caballero H, Dominguez-Bello MG. Changes in the gut microbiota of urban subjects during an immersion in the traditional diet and lifestyle of a rainforest village. **mSphere** **2018**, 3(4):e00193-18. PMID: 30158281 ; <https://doi.org/10.1128/mSphere.00193-18>.
110. Siqueira J, Dominguez-Bello M, Contreras M, Lander O, Caballero-Arias H, Deng X, Noya-Alarcon, O and Delwart E. Complex virome in feces from Amerindian children in isolated Amazonian villages. **Nature Communications** **2018**, 9:4270. PMID: 30323210 ; <https://doi.org/10.1038/s41467-018-06502-9>
111. Dominguez-Bello MG, Knight R, Gilbert JA, Blaser MJ. Restoring microbial diversity, an ancestral legacy for future generations. **Science** **2018**, 362 (6410): 33-34. PMID: 30287652 ; <https://doi.org/10.1126/science.aau8816>
112. Godoy-Vitorino, F., Romaguera, J.E., Zhao, C., Vargas-Robles, D., Ortiz-Morales, G., Vázquez-Sánchez, F., Sanchez-Vázquez M, de la Garza-Casillas M, Martinez-Ferrer M, White JR, Bittinger K, Dominguez-Bello MG and Blaser MJ. Cervicovaginal fungi and bacteria associated with cervical intraepithelial neoplasia and high-risk Human Papillomavirus infections in a Hispanic population. **Frontiers in Microbiology** **2018**, 9(2533). <https://doi.org/10.3389/fmicb.2018.02533>
113. Vargas-Robles D. and Domínguez-Bello MG. Microbiota de los indígenas del Amazonas venezolanos: influencia de los estilos de vida. (Journal of the Venezuelan National Academy of Medicine) **Gaceta Medica de Caracas** **2018**, 126(4):291-303. PMID: 30405584 ; <https://doi.org/10.3389/fmicb.2018.02533>
114. Combellick JL, Shin H, Shin D, Cai Y, Hagan H, Lacher C, Lin DL, McCauley K, Lynch S, Dominguez-Bello MG. Differences in the fecal microbiota of neonates born at home or in the hospital. **Nature Scientific Reports** **2018**, 8:15660. PMID: 30353125 ; <https://doi.org/10.1038/s41598-018-33995-7>
115. Dominguez Bello MG. Effects of C-section on the human microbiota. **Am J Hum Biol.** **2018**, e23196. PMID: 30585360 ; <https://doi.org/10.1002/ajhb.23196>.
116. Fragiadakis GK, Smits SA, Sonnenburg ED, Van Treuren W, Reid G, Knight R, Manjurano A, Chandalucha J, Dominguez-Bello MG, Leach J, Sonnenburg JL. Links between environment, diet, and the hunter-gatherer microbiome. **Gut Microbes** **2019**, 10(2):216-227. PMID: 30118385 ; <https://doi.org/10.1080/19490976.2018.1494103>.
117. PeBenito A, Nazzari L, Huan C, Li H, Jay M, Noya-Alarcon O, Contreras M, Lander O, Leach J, Dominguez-Bello MG, Blaser MJ. Comparative prevalence of *Oxalobacter formigenes* in three human populations. **Sci Reports** **2019**, 9:574. PMID: 30679485 ; <https://doi.org/10.1038/s41598-018-36670-z>
118. Pagán-Jiménez M, Ruiz-Calderón JF, Dominguez-Bello MG, García-Arrarás JE. Characterization of the intestinal microbiota of the sea cucumber *Holothuria glaberrima*. **PLoS ONE** **2019**, 14(1): e0208011. PMID: 30699110 ; <https://doi.org/10.1371/journal.pone.0208011>

119. Robello, C, Maldonado, D. P, Hevia, A, Hoashi, M, Frattaroli, P, Montacutti, V, Heguy, A, Dolgalev, I, Mojica, M, Iraola, G, Dominguez-Bello, M. G. The fecal, oral, and skin microbiota of children with Chagas disease treated with benznidazole." **PLoS One** **2019**, **14**(2): e0212593. <https://doi.org/10.1371/journal.pone.0215199>
120. Dominguez-Bello MG, Godoy-Vitorino F, Knight R, Blaser MJ. Role of the microbiome in human development. **Gut** **2019**, Jun;68(6):1108-1114. <https://doi.org/10.1136/gutjnl-2018-317503>
121. Murphy K, Keller MJ, Sinclair S, Devlin JC, Starkman B, Shi Q, Hoover DR, Freiermuth J, Minkoff H, Anastos K, Dominguez-Bello MG, Herold BC. Impact of reproductive aging on the vaginal microbiome and soluble immune mediators in women living with and at-risk for HIV infection. **PLoS One** **2019**, **14** (4): e0216049. PMID: 31026271 ; <https://doi.org/10.1371/journal.pone.0216049>
122. McCall LI, Callewaert C, Zhu Q, Song SJ, Bouslimani A, Minich JJ, Ernst M, Ruiz-Calderon JF, Cavallin H, Pereira HS, Novoselac A, HernandezJ, Rios R, Branch OH, Blaser MJ, Paulino LC, Dorrestein PC, Knight R, Dominguez-Bello MG. Home Chemical and Microbial Transitions with Urbanization. **Nature Microbiology** **2019**, Jan;5(1):108-115. PMID: 31686026 ; <https://doi.org/10.1038/s41564-019-0593-4>
123. Mueller N, Dominguez-Bello MG, Appel L, Hourigan S. Vaginal seeding' after a caesarean section provides benefits to newborn children." **BJOG: An International Journal of Obstetrics and Gynaecology** **2019** Jan;127(2):301. PMID: 31696621 ; <https://doi.org/10.1111/1471-0528.15979>
124. Mueller NT, Hourigan SK, Hoffmann DE, Levy L, von Rosenvinge EC, Chou B, Dominguez-Bello MG. Bacterial Baptism: Scientific, Medical, and Regulatory Issues Raised by Vaginal Seeding of C-Section-Born Babies. **J Law Med Ethics** **2019**, 47(4):568-578. PMID: 31957590 ; <https://doi.org/10.1177/1073110519897732>.
125. Derilus D, Godoy-Vitorino F, Rosado Rivera H, Agosto E, Dominguez Bello MG, Cavallin H. An in-depth survey of the microbial landscape of the walls of a neonatal Operating Room. **PLoS ONE** **2020**, 15(4): e0230957. PMID: 32243474 ; <https://doi.org/10.1371/journal.pone.0230957>
126. Finlay B. B and CIFAR Humans and the Microbiome authors (Blaser MJ, Bosch TCG, Dominguez-Bello MG, Elinav E, McFall-Ngai M, Melby MK, Muehlmann SR, Sansonetti PJ. Are noncommunicable diseases communicable? **Science** **2020**, 367 (6475): 250-251. PMID: 31949069 ; <https://doi.org/10.1126/science.aaz3834>
127. Francis AP, Dominguez-Bello MG. Early Life Microbiota Perturbations and Behavioral Effects. **Trends in Microbiology** **2019** Epub 2019 Sep 28. PMID: 31103277 ; <https://doi.org/10.1016/j.tim.2019.04.004>.
128. Lago P, Dominguez-Bello MG, Leis MR. Cesarea, Microbioma y Patologia. **Cuadernos de Medicina Reproductiva** **2019** (Spanish) 25(2):75-81.
129. Derilus D, Rosado H, Agosto E, Dominguez-Bello MG, Cavallin H. An in-depth survey of the microbial landscape of the walls of a neonatal operating room. **PLoS ONE** **2020** April3. PMID: 32243474 ; <https://doi.org/10.1371/journal.pone.0230957>
130. Garcia-Recinos L, Burrowes P, Dominguez-Bello M. The skin microbiota of Eleutherodactylus frogs: effects of host ecology, phylogeny, and local environment. **Frontiers Microbiology** **2019**. 10:2571. PMID: 31781069 ; <https://doi.org/10.3389/fmicb.2019.02571>
131. Wong W, Sabu P, Deopujari V, Levy S, Shah A, Clemency N, Provenzano M, Saadoon R, Munagala A, Baker R, Baveja R, Mueller N, Dominguez Bello MG, Huddleston K, Niederhuber J, Hourigan S. Prenatal and peripartum exposure to antibiotics and Cesarean Section delivery alters the infant meconium microbiome. **Microorganisms** **2020**, 8(2):179. PMID: 32012716 ; <https://doi.org/10.3390/microorganisms8020179>

132. Hernandez CD; Shin H; Troncoso PA; Vera MH; Villagran AA; Rodriguez SM; Ortiz MA; Serrano CA; Borzutzky A; Dominguez-Bello MG; Harris PR. Maternal *H. pylori* is associated with differential fecal microbiota in infants born by vaginal delivery". **Nature Scientific Reports** **2020** **10**, # **7305**. PMID: 32350392 ; <https://doi.org/10.1038/s41598-020-64296-7>
133. Bisgaard H, Rasmussen M, Thorsen J, Dominguez-Bello MG, Blaser M, Mortensen M, Brejnrod, Shiraz Shah A, Hjelmsø M, Lehtimäki J, Trivedi U, Sørensen S, and Stokholm J. Ecological succession in the vaginal microbiota during pregnancy and birth" **ISME** **2020** 19-00814AR2 PMID: 32488167 ; <https://doi.org/10.1038/s41396-020-0686-3>
134. Vargas-Robles D, Magris M, Morales N, Rodríguez I, Nieves T, Godoy-Vitorino F, Alcaraz LD, Pérez ME, Ravel J, Forney LJ , Domínguez-Bello MG. Changes in the vaginal microbiota across a gradient of urbanization" **Nature Scientific Reports** **2020**, 10:12487. <https://doi.org/10.1038/s41598-020-69111-x>
135. Martino C, Shenhav L, Marotz C, Armstrong G, McDonald D, Vázquez-Baeza Y, Morton JT, Jiang L, Dominguez-Bello MG, Swafford AD, Halperin E, Knight R. Context-aware dimensionality reduction deconvolutes gut microbial community dynamics. **Nature Biotechnology** **2020** <https://doi.org/10.1038/s41587-020-0660-7>
136. Rasmussen MA, Thorsen J, Dominguez-Bello MG, Blaser MJ, Mortensen MS, Brejnrod AD, Shah SA, Hjelmsø MH, Lehtimäki J, Trivedi U, Bisgaard H, Sørensen SJ, Stokholm J. Ecological succession in the vaginal microbiota during pregnancy and birth. **ISME** **2020** 14:2325–2335 <https://doi.org/10.1038/s41396-020-0686-3>

Invited Chapters

137. Dominguez-Bello MG, Pacheco A. Ho. st-Microbe interactions in the GI tract: influence of indigenous bacteria on the physiology of herbivores. **Proceedings VI International Symposium on the Nutrition of Herbivores**. Editors: L. Mannetje, L. Ramírez-Avilés, C. Sandoval-Castro y J. C. Ku-Vera. pp91-97. ISBN: 970-698-043-1. ISSN:1159-554X, **2003**.
138. Marini E, Racugno W, Hidalgo G, Dominguez-Bello MG, Pericchi LR, Buffa R, Succa V, Floris G. Caratteristiche antropologiche di popolazioni amazzoniche. Un progetto di collaborazione scientifico-formativa tra Cagliari e Venezuela. **Rendiconti Seminario Fac. Scienze Univ. Cagliari**. pp 239-244, **2003**.
139. Dominguez-Bello MG. How do changes in microecology affect the human host. In: Ending the War Metaphor: The Future Agenda for Unraveling the Host-Microbe Relationship. Chapter 3. **Institute of Medicine of the National Academy of Sciences**. The National Academies Press, Washington, pp 140-158, **2006**.
140. Dominguez-Bello MG, Blaser MJ. Evolution of *H. pylori* and *H. pylori* infections. In: **Evolutionary Biology of Bacterial and Fungal Pathogens**. Chapter 37. G. Cassell, F. Baquero, C. Nombela and J.A. Gutiérrez Editors, ASM Press. pp 445-455, **2006**.
141. Godoy-Vitorino F, Dominguez-Bello MG. The Development of the Infant Microbiome. In: Nelson K. (Ed.) **Encyclopedia of Metagenomics**. SpringerReference (www.springerreference.com). Springer-Verlag Berlin Heidelberg. pp 1-7, **2012**.

Letters

142. Dominguez-Bello, M G; Reyes, N; Teppa-Garran, A; Romero, R. Interference of *Pseudomonas* strains in the identification of *Helicobacter pylori*. **Journal of Clinical Microbiology**. **2000**; 38(2):937-937. PMID: 10722321 ; <https://doi.org/10.1038/s41598-020-69111-x>10.1128/jcm.38.2.937-937.2000

143. Dominguez-Bello MG, Blaser MJ. Are iron-scavenging parasites protective against malaria? **Journal of infectious diseases**. 2005;191(4):646-646. PMID: 15655790 ; <https://doi.org/10.1086/426946>
144. Dominguez-Bello MG, Costello EK, and Knight R. Reply to Putignani et al: The vagina as a major source of natural inoculum for the newborn. **Proceedings of the National Academy of Sciences of the United States of America (PNAS)**. 2010;107(42):E160-E160. <https://doi.org/10.1073/pnas.1012458107>
145. Blaser, MJ; Dominguez-Bello MG. Maternal antibiotic use and risk of asthma in offspring. **Lancet. Respiratory medicine**. 2(10): 1299122, 2014 PMID: 25298059 ; [https://doi.org/10.1016/S2213-2600\(14\)70219-X](https://doi.org/10.1016/S2213-2600(14)70219-X)
146. Clemente JC, Dominguez-Bello MG. Safety of vaginal microbial transfer in infants delivered by caesarean, and expected health outcomes. **British medical journal. BMJ (Clinical research ed.)**. 2016: 352:i1707-i1707. <https://doi.org/10.1136/bmj.i1707>
147. Dominguez-Bello MG, Blaser MJ. Asthma: Undoing millions of years of coevolution in early life? **Science Translational Medicine**. 2015;7(307):307fs39-307fs39. PMID: 26424565 ; <https://doi.org/10.1126/scitranslmed.aad2741>
148. Dominguez-Bello MG, Martinez II, K. Response to Torgerson eLetter, Increased weight gain by C-section: Functional significance of the primordial microbiome. **Science Advances**. 2018: 3:eaao1874. PMID: 29026883 ; <https://doi.org/10.1126/sciadv.aao1874>
149. Mueller NT, Noya-Alarcon O, Contreras M, Appel LJ, Dominguez-Bello MG. Mueller NT, Noya-Alarcon O, Contreras M, Appel LJ, Dominguez-Bello MG. Association of Age with Blood Pressure Across the Lifespan in Isolated Yanomami and Yekwana Villages. **JAMA Cardiology** 2018, (3)12:1247-1249. PMID: 30427998 ; <https://doi.org/10.1001/jamacardio.2018.3676>
150. J Gilbert, R Knight, MG Dominguez-Bello, M Blaser - 1. Microbiome Archiving Done Right. **SCIENTIST** 2019, (33) 6: 22-23
151. Dominguez-Bello MG. Gestational shaping of the maternal vaginal microbiome. **Nature Medicine** 2019, News & Views, (25) 878-883. PMID: 31142848 ; <https://doi.org/10.1038/s41591-019-0483-6>

List of Published Work Dominguez-Bello MG

<https://www.ncbi.nlm.nih.gov/pubmed/?term=Dominguez-Bello+MG%5Bau%5D>

<https://scholar.google.com/citations?user=uFZJ02IAAAAJ&hl=en&oi=ao>

Ongoing Research Support

C&D Research Fund

05/01/18 – 04/30/21

1.0 Calendar

Dominguez-Bello (PI)

Annual Directs: \$425,000

Total Award: \$425,000

The ancestral and the early microbiome. Westernization leads to reduction of microbiota diversity and to increased risks of diseases related to immune malfunction such as T1D, celiac disease, autism, allergies, asthma, and obesity. There is evidence that microbial factors are associated with these diseases. This project will assess the magnitude of microbial losses in the human microbiome associated with Westernization, and assess restoration modalities.

Emch Fund for Microbial Diversity

01/01/20 – 01/01/21

0.5 Calendar

Dominguez-Bello (PI)

Annual Directs: \$47,500

Total Award: \$50,000

The microbiome of isolated peoples. Hunter-gatherer societies bring a unique opportunity to understand the microbiome before the impact of modern life practices. Little attention has been paid to the microbiomes of isolated peoples, away from practices including antibiotics, C-sections,

hygienic practices, that may impact microbial populations. This project studies the community structure and function of the bacterial populations from traditional peoples, and their protective effect against current epidemic diseases of the modern urban world.

Canadian Institute for Advanced Research 07/01/20 - 03/01/21 0.5 Calendar
CIFAR FS21-015 #2959

Dominguez-Bello (PI)

Annual Directs: \$16,605

Total Award: \$16,605

Microbial Anthropology. This project studies the factors that shape the microbiome from early age, and the evolutionary traits that need to be respected to optimize health.

Rutgers SEBS- IFNH Seed Grants 10/01/19 – 09/30/21 1.5 Calendar

Dominguez-Bello (PI)

Annual Directs: \$225,000

Total Award: \$225,000

Mechanisms underlying increased fat deposition induced by early life perturbations. Mammals transmit the host associated and coevolved microbiota to their descendants, and since pioneer microbes program the immune and metabolic systems, disruptions during this critical window have lasting consequences, including increased obesity risk. This project studies the mechanisms by which C-section impairment of mother-to-newborn transmission, leads to increased overweight.

New Jersey Governor's Council for Medical Research and Treatment of Autism

Fellowship Program CAUT20AFP

01/07/20 – 31/06/21

Jeremy Lessing (PI)

Annual Directs: \$60,000

Total Award: \$60,000

Graduate fellowship for MD-PhD student tutored by MGDB

Role: Supervisor

Implications of maternal-fetal microbiome perturbation in the development of neuroanatomical and molecular defects associated with autism. This study will determine the effect of microbiome alterations on the brain in the context of autism.

R21AG067400 NIA/NIH 04/01/20-03/31/22 2.4 Calendar MO

Irvin Vega (PI)

Annual Directs: \$150,000

Total Award: \$403,117

Brain microbial proteome in normal aging and Alzheimer's disease. The proposed research work is directed to uncover the presence of specific bacterial species in normal aging and AD brain and to enhance the mechanistic understanding between dysbiosis and neurodegeneration.

Manulife (Canada) 07/01/20 - 06/30/21 0.5 Calendar

CIFAR Population Health & Well-being Grant Program

K. Amato (PI)

Annual Directs: \$39,526 CAD

Total Award: \$39,526 CAD

The influence of COVID-19 behavioral responses on early life microbial exposures. This project is in collaboration with CIFAR Humans & the Microbiome program members

Rutgers Global Institute

09/01/20 - 09/30/21

Dominguez-Bello and Marcone (PIs)

Rutgers International Collaborative Research grants.

Global Microbiome Network-Peru (GloMiNe)

Annual Directs: \$8,000

Total Award: \$8,000

The purpose of this project is to initiate a Global Microbiome Network to educate in creating conscience of the value of biodiversity of natural foods, and biodiversity of the human microbiome in peoples living traditional lifestyles, as well as cultural and ethical considerations in relation to the microbiome.

Rutgers NIEHS Pilot Project

09/01/20 - 09/30/21

NIEHS Center for Environmental Exposure & Disease

DiCicco-Bloom and Dominguez-Bello (PIs)

Implications of maternal-fetal microbiome perturbation in the development of neuroanatomical and molecular defects associated with autism.

Annual Directs: \$25,720

Total Award: \$25,720

The purpose of this project is to determine how disruption of the maternal-fetal microbiome affects the brain development and behavior.

Pending Research Support

National Cancer Institute

07/01/20-06/3/23

1.0 Calendar

Dominguez-Bello (PI)

P20 Cancer Disparities SPORE

Annual Directs: \$799,755

Total Award: 1,250,000

PROPEL: Precision Oncology Research for Promoting Equitable Outcomes in New Jersey. The overarching goal of PROPEL is to advance cancer health equity through transdisciplinary research — spanning molecular discovery to care delivery — and optimize translation into precision-based preventive, diagnostic, and therapeutic strategies for New Jersey and beyond.

Completed Research Support (last 5 years)

Emch Fund for Microbial Diversity

10/15/13-10/14/20

0.5 Calendar

Dominguez-Bello (PI)

Annual Directs: \$42,500

Total Award: \$50,000

The microbiome of isolated peoples.

Canadian Institute for Advanced Research

07/01/19 - 06/30/20

0.5 Calendar

CIFAR FS20-078 #125869

Dominguez-Bello (PI)

Annual Directs: \$27,700

Total Award: \$30,000

Microbial Anthropology. This project studies the factors that shape the microbiome from early age, and the evolutionary traits that need to be respected to optimize health.

Collaborative Agreement with PureTech Inc. Dominguez-Bello (PI) 01/15/18– 07/15/19

Pathways of disease protection by keystone microbionts

Goal: To determine the functions of the human microbiota primordial inoculum, on the development of the immune and metabolic systems.

Role: PI

Juvenile Diabetes Research Foundation (JDRF) SRA 12/01/16- 06/16/19 1.0 Calendar

Dominguez-Bello (PI)

Annual Directs:

C-section-like microbiota and alterations of immune responses.

Robert Wood Johnson Foundation SRA

New Jersey Health Kids Initiative (NJHKI)

10/15/18 - 06/15/19

Annual Directs:

Goal: healthy lifestyle interventions in children and education of children and family on nutrition.

Role: PI (temporarily PI, as Director of the IFNH)

NIH 5T32AI007180

Ian Moore (PI)

02/01/17 – 12/31/18

T21 Award Institutional training grant, Microbiology Graduate students, NYU, Funding PhD student Keith Martinez, tutored by MGDB

Goal: Accomplish the requirements to obtain a PhD, with a published PhD thesis

Role: PI

Collaborative Agreement with PureTech Inc. S Hourigan (PI) 11/15/18– 06/15/19
Vaginal Microbiome Seeding and Health Outcomes in Cesarean-Delivered Neonates: A Randomized Controlled Trial

Goal: To initiate a randomized clinical trial to determine the effect of the maternal vaginal/perineal microbes on infant development

Role: Co-PI

1R01DK090989-04 Blaser (PI) 09/25/10 – 08/31/17

NIH/NIDDK: Disappearing gastrointestinal microbiota in epidemic obesity

Goal: To determine the effect of antibiotics on the microbiome and mechanisms leading to obesity

Role: PI

Alfred P. Sloan Foundation Dominguez-Bello (PI) 08/15/15 –08/15/17

Changes in Microbes of the Built Environment in Early Stages of Urbanization

Goal: To determine associations between changes due to urbanization and microbes in the houses and their inhabitants in a gradient of urbanization in the Amazon river basin.

Role: PI

Alfred P. Sloan Foundation Dominguez-Bello (PI) 08/15/15 –08/15/17

Changes in Microbes of the Built Environment in Early Stages of Urbanization

Goal: To determine associations between changes due to urbanization and microbes in the houses and their inhabitants in a gradient of urbanization in the Amazon river basin.

Role: PI

C&D Research Fund Dominguez-Bello (PI) 05/01/13 – 04/30/18

\$1,200,000

The ancestral and the early microbiome. Westernization leads to reduction of microbiota diversity and to increased risks of diseases related to immune malfunction This project assessed microbial changes in microbes, associated with westernization and western practices.

Patents

2019 **U.S. Patent 10357521.** METHODS FOR RESTORING MICROBIOTA OF NEWBORNS.

Filed: May 16, 2016. **Date of Patent:** July 23, 2019. **Assignees:** University of Puerto Rico, New York University. **Inventor:** Maria Gloria Dominguez-Bello. **Abstract:** The invention relates to methods and compositions for restoring normal microbiota in pre-term newborns or newborns delivered by Cesarean section and methods for preventing or ameliorating diseases associated with delivery by Cesarean section or pre-term birth comprising administering to said newborns at the time of birth or shortly thereafter an effective amount of a vaginal microbiota inoculum obtained from the newborn's mother or a donor or an effective amount of a probiotic composition.

2016 International Application No. PCT/US2016/068735, World Intellectual Property Organization (12/27/2016)

2016 International Application No. PCT/US2016/032576, World Intellectual Property Organization (5/14/2016).

2009 Bassaganya-Riera J, Hontecillas R, Dominguez-Bello MG, Sobral B. Method of using probiotic bacteria to prevent insulin resistance and obesity-related inflammation (07.048 VTIP Disclosure), U.S. Provisional Patent Application No: 60/942,016, 2009

Invited Speaker, Conferences and Universities

National

1991 Department of Animal Sciences, Purdue University, Lafayette IN

1996 Bailey Hortorium and Department of Animal Science, Cornell University, Ithaca NY

2002 Medical Science Campus, University of Puerto Rico, San Juan, Puerto Rico

2005 Ending the War Metaphor. Institute of Medicine, NAS, Washington DC

2005 Virginia Bioinformatics Institute, Virginia Tech (VPI), Blacksburg VA

2006 Department of Biology, University of Puerto Rico-Mayaguez, Puerto Rico PR
 2009 Department of Anthropology, Hunter College, New York NY
 2010 Center for Cancer Research, National Cancer Institute, NIH, Bethesda MD
 2010 New Approaches for Antibiotic Resistance. DARPA workshop, Coronado CA
 2010 Department of Microbiology, University of Massachusetts Medical School, Worcester MA
 2010 Department of Chemistry and Biochemistry, University of Colorado, Boulder CO
 2011 J. Craig Venter Institute, Rockville MD
 2011 Center for Infection and Immunity, Columbia University, New York NY
 2011 Medical Science Campus, University of Puerto Rico, San Juan, Puerto Rico
 2012 Dartmouth College, Hanover NH
 2012 Department of Biology, University of Puerto Rico, Puerto Rico
 2013 University of Nebraska, Biotechnology/Life Sciences Seminar series, Lincoln NB
 2013 Vassar College, Department of Anthropology, Biology, Environmental Studies and Programs in Science, Technology and Society, Poughkeepsie NY
 2013 Harvard University: Celebrating Ten Years of the Microbial Ecology Initiative at Harvard, Cambridge MA
 2013 NIH-Human Microbiome Science: Vision for the Future. Keynote speaker; Washington DC
 2013 University of Texas-Austin. Department of Civil, Architectural, and Environmental Engineering, Austin TX
 2014 New York Academy of Sciences, Invited Speaker "Hats off to Bacteria!", New York NY
 2014 AAAS Symposium on the Microbiomes in the Built Environment. Washington DC.
 2014 NYC Microbiome Day, Memorial Sloan Kettering, New York NY
 2014 The New York Academy of Sciences. Early-Life Influences on Obesity. New York NY
 2014 NYU Steinhardt Department of Nutrition, Food Studies, and Public Health, New York NY
 2014 International Society for Environmental Epidemiology, (Plenary address), Seattle, WA
 2014 International Society for Research in Human Milk and Lactation (ISRHML), Kiawah Island, SC
 2015 University of Minnesota, St Paul MN.
 2015 Wisconsin Association for Perinatal Care (WAPC) Annual Conference. Appleton WI
 2015 Johns Hopkins University School of Public Health, Baltimore MD
 2015 Puerto Rico Society of Microbiology, San Juan PR
 2015 University of Pennsylvania, Philadelphia PA
 2015 NIH, Microbiome in Health and Disease Symposium. (Keynote Lecture). Bethesda.
 2016 National Academy of Sciences, Standing Committee on Emerging Science for Environmental Health Decisions (ESEH) workshop, Microbiome and Environmental Health. (Keynote Speaker), Washington DC.
 2016 Association of Medical School Chairs of Pediatrics Annual Meeting, Savannah GA.
 2016 Department of Genome Sciences Seminar Series. University of Washington, Seattle WA.
 2016 Microbiome Research Seminar series, Columbia University, New York NY.
 2016 Loyola University Medicine Grand Rounds, Chicago IL.
 2016 Comparative Nutrition Society Meeting (Plenary Speaker). San Juan, Puerto Rico.
 2016 Department of Molecular and Cellular Biology, Kennesaw State University, Kennesaw GA.
 2016 39th Annual Scientific Meeting, New York Perinatal Society (Keynote speaker), New York NY.
 2016 UCSD/RWJF Symposium, Changing Microbiome for Health, San Diego CA
 2017 International Inflammation Network, Jersey City, NJ.
 2017 University of Wisconsin UW School of Medicine and Public Health. Madison WI.
 2017 Gordon Research Conference Animal-Microbe Symbioses (Invited speaker), Somerset VT.
 2017 National Academies of Sciences, Engineering, and Medicine. Microbes of the Built Environment (MoBE) 2017 Symposium
 2017 NIH Microbiome Emerging Themes Workshop. Bethesda, DC.
 2017 Rockefeller University, Seminars in Clinical Research series, New York, NY.
 2017 AMP 2017 Annual Meeting, Salt Lake City, UT (Plenary Speaker).
 2017 NAS Forum on Microbial Threats, Washington DC.
 2018 ISEMPH annual conference, Evolution and Wilderness Medicine, Utah, (Plenary speaker).
 2019 ASU Center for Evolution & Medicine (CEM) seminar series, Arizona State University, AZ.
 2019 Storer Life Sciences Lecturer, University of California- Davis.
 2019 Keystone Symposia on Origins of Allergic Disease, March 2019, Lake Tahoe, US.

- 2019 NIH Integrative Medicine Research Lecture Series (IMLS), National Center for Complementary and Integrative Health (NCCIH), Bethesda, DC
- 2020 Watson School of Biological Sciences, Febr 9, Cold Spring Harbor Laboratory, New York, NY
- 2020 Central Jersey Family Health Consortium, Febr 26, North Brunswick, NJ.
- 2020 Association for Women in Science / Women's Health Institute at Rutgers RWJMS; 2nd Annual New Jersey Women in Health Symposium. Febr 20, Online.

International

- 1993 Rowett Research Institute, Aberdeen, UK
- 1994 Institut National de la Recherche Agronomique, Theix, Clermont Ferrand, France
- 1995 University of Harare, Zimbabwe
- 1998 University of Hanoi, Vietnam
- 2002 Centre Nationale de la Recherche Scientific, Gif-sur-Yvette Cedex, France
- 2002 Hospital Park Tauli, Barcelona, Spain
- 2002 Department of Animal and Food Science, Universidad Autonoma de Barcelona, Spain
- 2003 Center for Research in Alimentation and Development (CIAD), Hermosillo, Mexico
- 2003 Department of Experimental Biology, Universita de Cagliari, Sardinia, Italy
- 2003 Amazonic Center for Research and Control of Trop Dis (CAICET), Puerto Ayacucho, Venezuela
- 2004 University of Sucre and Hospital Boliviano Japonés, Sucre, Bolivia
- 2005 Department of Anthropology, Universidade Federal do Rio Grande Do Sul, Porto Alegre, Brazil
- 2005 Department of Anthropology, Universita de Cagliari, Sardinia, Italy
- 2006 Université Cadi Ayyad, Graduate course on Nutrition and Parasites, Marrakesh, Morocco
- 2006 Department of Biology, University Simon Bolivar, Caracas, Venezuela
- 2007 School of Medicine, Universidad del Zulia, Maracaibo, Venezuela
- 2007 Department of Biology, Universidad de Ciudad Guayana, Pto Ordaz, Venezuela
- 2009 Department of Experimental Biology, University of Cagliari, Sardinia, Italy
- 2009 Department of Epidemiology, Tel Aviv University, Israel
- 2010 Department of Biology, University Simon Bolivar, Caracas, Venezuela
- 2010 Universidad Nacional de Colombia, Medellin, Colombia
- 2010 Medical School Universidad Central de Venezuela, Caracas, Venezuela
- 2011 Sackler School of Medicine, Tel-Aviv University, Israel
- 2011 Cambridge Institute for Medical Research, University of Cambridge, UK.
- 2012 Centro para la Investigacion de la Alimentacion y Desarrollo (CIAD), Mexico
- 2012 Pontificia Universidad Catolica de Ecuador, Quito, Ecuador
- 2012 Universidad Metropolitana, Caracas, Venezuela
- 2013 Uruguayan Society of Microbiology. Montevideo, Uruguay
- 2013 Universidad San Francisco Javier de Chuquisaca, Sucre, Bolivia
- 2013 Wellcome Trust, Infectious Disease Genomics and Global Health. Hinxton, Cambridge, UK.
- 2014 University Espiritu Santo School of Medicine, Guayaquil, Ecuador
- 2014 Human Biology Association 39th Annual Meeting, Calgary, Canada
- 2014 University of Graz, 1st Theodor Escherich Symp on Medical Microbiome Res, Graz, Austria.
- 2015 Gut Microbiota for Health, Barcelona, Spain
- 2015 Fifteenth International Human Microbiome Congress (Keynote Speaker), Luxembourg
- 2015 International Symposium on Anaerobic Microbiology (Keynote Speaker), Portoroz, Slovenia
- 2015 Gulbenkian Institute, Oeiras, Portugal
- 2015 University College Cork, Cork, Ireland
- 2015 Venezuelan Congress of Ecology (6th). (Keynote Lecture). Margarita, Venezuela.
- 2015 Neonatal Update 2015: "the science of newborn care" (Keynote Speaker), London, UK.
- 2016 WHO/Gates Foundation/NIAID. Global Vaccine and Immunization Research Forum, Johannesburg, South Africa
- 2016 Canadian Institute for Advanced Research (CIFAR), Humans & the Microbiome, Portland OR
- 2016 Symposium on development of metabolism. La Fondation Les Treilles, France
- 2016 Royal Society/NYAcademy of Science Food Microbiome Interaction Meeting, London, UK
- 2016 Tel Aviv University School of Public Health, Israel

- 2016 VIII Workshop of the Spanish Society of Prebiotics and Probiotics (Keynote lecture), Santiago de Compostela, Spain
- 2017 Nobel Conference The Microbiome and its Programming of Body Systems, Karolinska Institutet, Stockholm, Sweden
- 2017 Asian Conference for Lactic Acid Bacteria, Keynote speaker, ACLAB9, Gwangju, Korea, July
- 2017 Gulbenkian Institute, Oeiras, Portugal
- 2017 Institute for Clinical Molecular Biology, Christian -Albrechts University, Kiel, Germany, September.
- 2017 Institut Pasteur Montevideo in Uruguay
- 2017 International Peace Maternity & Child Health Hospital Affiliated to Shanghai Jiao Tong University School of Medicine, China
- 2017 10th Congress of the World Society for Pediatric Infectious Diseases (WSPID), Shenzhen, China.
- 2017 Institute of Microbiology, Chinese Academy of Sciences, Beijing, China.
- 2017 Fujian Medical University, Fuzhou, China.
- 2018 Nature Conference in Maternal and Child Health, Guanzhou, China
- 2018 Rowett-INRA 2018 Gut Microbiology Conference, Aberdeen, Scotland (Plenary Speaker)
- 2018 Nature Research, Round Table on Challenges in Translating the Microbiome, New York
- 2018 Canadian Institute for Advanced Research (CIFAR), Humans & the Microbiome Program, Toronto, Canada
- 2018 WHO/ Wellcome Trust, Transforming nutrition science for better health, London, UK.
- 2018 INSERM-Institute Cochin, Microbiota in host health and disease: from correlation to causality. Paris, France
- 2018 47th Annual Meeting of the Japanese Society for Immunology (JSI), Yokohama, Japan
- 2019 Nutrition Forum 2019, Danone Institute, Mexico City, Mexico
- 2019 CIFAR Humans & the Microbiome Program Meeting March 2019, Victoria, Canada
- 2019 Keystone Symposia on Origins of Allergic Disease, March 2019, Tahoe City.
- 2019 CGIF- Conference on Gastrointestinal Function, April 2019, Chicago.
- 2019 UNSW Sydney, Microbiome Master Class, Microbiome Research Centre, September 2019, Sydney, Australia
- 2019 Australian Gastroenterology Week (AGW), September 2019, Adelaide, Australia
- 2019 Microbiota and future health. Norwegian Institute of Public Health, September 2019, Oslo, Norway.
- 2019 "Kiel Life Science" (KLS), Christian-Albrechts-University Kiel, November 2019, Kiel, Germany.
- 2020 The Barcelona Debates on the Human Microbiome" June 27th (online).
- 2020 International Webinar Series, Department of Home Science, University of Calcutta, September 7th, India (online).

OTHER

Synergistic Activities

- Coordinator of the commercial production of the diagnostic urease test "Ureivic", 1992-2003
- Vice-coordinator, Graduate Studies in Physiology and Biophysics, IVIC, 1994-1997
- Member of the Institutional Committee of Human Rights, IVIC, 1995-2000
- Member, Directive of the Association of Researchers, IVIC. 1995-97, 1999-2000
- Scientific Advisor for the International Foundation for Science (Sweden), 1994-present
- Member of the Latin American Network for Research in Bioactive Natural Compounds, Argentina 1999-2002
- Member International Advisory Committee, International Symposium on the Nutrition of Herbivores, 1998-2009
- Expert referee, Alban Program, European Union, 2000
- Member of the Scientific Committee, PhD School in Biology and Biochemistry of Man and the Environment, University of Cagliari, Italy, 2010- present

- Secretary of the Faculty of Sciences Personnel Committee and representative of the Department
- of Biology, University of Puerto Rico, 2011- 2012
- Member of the AAM-EMD Millipore Alice C. Evans Award Nominations Committee. 2013-2016
- Reviewer for the Institute of Medicine Workshop Reports and Summaries, 2013-present
- Collaborating Faculty, NYU School of Medicine International Health Program (research projects:
 - Latin America), 2013-present
- Collaborator, “American Gut Project”, the world's largest open-source, community-driven effort to characterize the microbial diversity of humans. 2012-present
- Human Microbiome Exhibition Advisory Board. EdenProject, UK, 2013-present
- Scientific Advisory Board, Human Microbiome Exhibition. EdenProject, Cornwall UK, 2014-present.
- Member, External Scientific Advisory Committee for NIH U19, U Washington, Jan 2015.
- NSF Peer Review panel, 2015
- NSF Peer Review panels, 2004-2015
- CASIS Workshop: Omics and Omics: Exploring the Microbiome/Immune and Disease on the International Space Station U.S. National Lab. Cleveland, Oct 25, 2016.
- Museum of the Moving Image, Sloan Foundation funded science-Art film: To Dust, on the necrobiome - Maria Gloria Dominguez Bello, Panelist, Febr 2019.
- Founder president of the non profit corporation “Microbiota Vault Inc.”

Teaching Experience

2003-2012	General Microbiology, Microbiome, Microbial Ecology, Graduate Seminars. University of Puerto Rico School of Sciences (6hours per week)
2014- 2016	Genomics and Global Health course (coordinated by Dr. J. Carlton), NYU Graduate School of Arts and Sciences (6 hours per year).
2015	Global Health Selective course at NYU School of Medicine (coordinated by Michelle DallaPiazza and Nathan Bertelsen), (6 hours)
2015	Summer School on Symbiosis, Callisto Gulbenkian Institute/European Community, Portugal, (40 hours)
2014-present	International Health Program, NYULMC: talks and advising four students for their international research projects (20 hours per year).
2017, 2019	Summer School on Symbiosis, Callisto Gulbenkian Institute/European Community, Portugal, (40 hours)
2019	Rutgers courses: Microbial Ecology, Know your Microbiome.

Postdocs & Research Associates

1. 2000-2002	Pulcherie Gueneau, Post-doctoral Fellow, IVIC, Caracas, Venezuela
2. 2002-2003	Andreina Pacheco, Post-doctoral Fellow, IVIC, Caracas, Venezuela
3. 2002-2003	Filipa Godoy, Post-doctoral Fellow, University of Puerto Rico, School of Sciences
4. 2014-2016	Hakdong Shin, Post-doctoral Fellow, NYU
5. 2017-2020	Jincheng Wang, Post-doctoral Fellow, Rutgers University
6. 2019	Keith Martinez, Post-doctoral Fellow, Rutgers University
7. 2019-2020	Moises Lopez Gonzalez, Post-doctoral Fellow, Rutgers University
8. 2019-present	Sun Haipeng, Post-doctoral Fellow, Rutgers University
9. 2020-2021	Jincheng Wang, Research Associate, Rutgers University

Current students

Graduate

1. 2018-	Melissa Woortman, Rutgers University (PhD)
2. 2019-	Camille English, Rutgers University (PhD)
3. 2019-	Jeremy Lessing, Rutgers University (MD/PhD)

4. 2019- Luna Wang, Rutgers University (MSc)

Undergraduate

1. 2018- 2019 Alex Cai, Rutgers University (MSc)

Past Students

Graduate

1. 1997-2001 Marco T. Rincon. 1997, Graduate Student, IVIC, Venezuela. (MSc)
2. 1999-2001 Nancy Pacheco, IVIC, Venezuela (MSc)
3. 2000-2002 Estalina Baez, IVIC, Venezuela (MSc)
4. 2001-2005 Luzmary Vasquez, IVIC, Venezuela (MSc)
5. 2000-2003 Maria Alexandra Garcia, University Simon Bolivar, Venezuela (PhD)
6. 2000-2004 Ana L. Maldonado-Contreras, IVIC, Venezuela. (MSc)
7. 2003-2008 Filipa Godoy-Vitorino, University of Puerto Rico, School of Sciences (PhD)
8. 2004-2009 Ana L. Maldonado-Contreras, University of Puerto Rico, School of Sciences (PhD)
9. 2008-2013 Ida Pantoja Feliciano, University of Puerto Rico, School of Sciences (PhD)
10. 2013-2014 Doris Patricia Maldonado, Universidad Andina Simón Bolívar, Sucre, Bolivia (MSc)
11. 2011-2016 Jean Frances Ruiz, University of Puerto Rico, School of Sciences (PhD)
12. 2014-2015 Marina Hoashi, NYU Polytechnic (MSc)
13. 2015-2016 Devika Vij, NYU Graduate School of Arts and Sciences (MSc)
14. 2013-2017 Joan Comerlick, NYU School of Nursing.
15. 2013-2018 Daniela Vargas, University of Puerto Rico, School of Sciences (PhD)
16. 2015-2018 Keith Martinez, NYU School of Medicine (PhD; NIH grant 5T32AI007180).
17. 2017- 2019 Antonia Francis, NYU School of Medicine (MSc CTSI program)
18. 2018-2019 Aishwara Nathan, Rutgers University (MSc)

Thesis Committee Member, visitors in Rotation

1. 1993 Debora Yurman. Universidad Central de Venezuela (BSc)
2. 1994 Ramon Eloy Aguiar. Universidad Central de Venezuela (BSc)
3. 1994 Pedro Borges. University Simon Bolivar, Venezuela (BSc)
4. 2004 Dania Rodriguez, University of PR, School of Sciences
5. 2004 Rafael Lebron, University of PR, Medical Campus
6. 2006 James Timber, University of PR, School of Sciences
7. 2005 Fernando Maldonado, University of PR, School of Sciences
8. 2005 Lisamarie Olaguibel, University of PR, School of Sciences
9. 2006-2012 Elia Enid Sanchez, University of PR, School of Sciences
10. 2005-2006 Hamlet Perez University of PR, School of Sciences
11. 2005-2012 Pascal Mege, University of PR, School of Sciences
12. 2006 Ana Longo, University of PR, School of Sciences
13. 2006 Gisela Hernandez, University of PR, School of Sciences
14. 2007 Sheila Soler. Jan 2007-Aug 2007.
15. 2003-2005 Jennifer Ortiz, University of PR, School of Sciences
16. 2003-2008 Carlos Toledo, University of PR, School of Sciences
17. 2008 Ana Longo, University of PR, School of Sciences
18. 2011 Jose Luis Ortiz Lugo, University of PR, School of Sciences
19. 2005-2010 Pablo Ortiz University of PR, School of Sciences
20. 2006-2011 Pascal Megue, University of PR, School of Sciences

21. 2007-2011 Maria Pagan, University of PR, School of Sciences
22. 2010-2013 María Juliana Soto-Girón, University of PR, School of Sciences
23. 2012 Rachel Cymerman, NYU School of Medicine
24. 2013 Emily Danies, MD from Bogota, Colombia
25. 2013 Mudit Chowdary, Mercer University
26. 2014 Albert Luong, NYU School of Medicine
27. 2014 Elizabeth Bakacs, NYU School of Medicine
28. 2014-2016 Marina Hoashi, NYU Polytechnic
29. 2014 Lashanda Williams, NYU School of Sciences
30. 2014 Kenneth Pace, NYU School of Medicine
31. 2012-2014 Patricia Maldonado, Universidad Andina, Bolivia
32. 2008-2017 Michelle Rivera, University of PR, School of Sciences
33. 2013-2017 Yarira Ortiz-Alvarado, University of PR, School of Sciences
34. 2013-2018 Liza Garcia, University of PR, School of Sciences
35. 2014-2018 Yadira Ortiz-Castellanos, University of PR, School of Sciences
36. 2014-2016 Lauren Sullivan, NYU School of Medicine
37. 2014-2015 Sarah Zhang, NYU School of Medicine
38. 2016 Joshua Chao, intern
39. 2016-2017 Valentina Montacutti, MD, intern
40. 2014-2015 Noel Mueller, Intern, Columbia University
41. 2014-2015 Monica Contreras, Intern, IVIC, Caracas, Venezuela
42. 2016-2017 Karen Park, Design&Research Specialist, Independent Consultant
43. 2016 Lexy Parra, Biologist
44. 2017 Christina Congdon, Nurse, NYU School of Medicine
45. 2017 Amber Benezra, Anthropologist, NYU
46. 2017 Angelina Volkova, NYU
47. 2017 Charles Guillihan, Medical student, NYU
48. 2019 David Good, Northampton Community College
49. 2019 Rebbecca Britain, MSc committee, Dept Anthropology, Rutgers
50. 2020 Elsa Wang PhD Committee, Dept Biochemistry and Microbiology, Rutgers
51. 2020 Suchitra K Hourigan, Advisory committee, NIH K23 award, INOVA Health

Undergraduate

1. 2004-2005 Cedric Pluguez, UPR, University of PR, School of Sciences
2. 2004 Celi Dominguez Caballer, University of PR, School of Sciences
3. 2004 Zylka Feliciano, University of PR, School of Sciences
4. 2004 Jose Ponce, University of PR, School of Sciences
5. 2004 Lourdes Aviles, University of PR, School of Sciences
6. 2004-2005 Debra Amezquita, University of PR, School of Sciences
7. 2005 Gladys Terc, University of PR, School of Sciences
8. 2004-2005 Surey Galarza, University of PR, School of Sciences
9. 2005-2006 Maria del Mar Rodriguez Berrios, University of PR, School of Sciences
10. 2004-2006 Maite Ferrer Rodríguez, University of PR, School of Sciences
11. 2005-2006 Ariam Cuadrado, University of PR, School of Sciences
12. 2006 Lidia Ocasio Lopez, University of PR, School of Sciences
13. 2005-2006 Su-Jan Sang, University of PR, School of Sciences
14. 2004-2006 Christian Rosado, University of PR, School of Sciences
15. 2006 Marisabel Bascaran, University of PR, School of Sciences
16. 2006-2007 Anamaria Noriega, University of PR, School of Sciences

17. 2006-2007 Ivonne Reyes, University of PR, School of Sciences
18. 2007 Daliris Ramirez-Burgos University of PR, School of Sciences
19. 2007 Myosotis Rodríguez, University of PR, School of Sciences
20. 2004-2006 Ida Pantoja, University of PR, School of Sciences
21. 2007 Lyd Marie Rodríguez, University of PR, School of Sciences
22. 2007 Jesus Fernandez, University of PR, School of Sciences
23. 2007 Jonathan Vargas, University of PR, School of Sciences
24. 2007 Jose Cintron, University of PR, School of Sciences
25. 2007-2008 Lyd Narie Rodriguez, University of PR, School of Sciences
26. 2009 Raymond Rivera, University of PR, School of Sciences
27. 2009-2013 Kassandra de Jesus, University of PR, School of Sciences
28. 2009 Miguel Rivera, University of PR, School of Sciences
29. 2009-2011 Angela Alisea, University of PR, School of Sciences.
30. 2010 Diego Borralli, University of PR, School of Sciences
31. 2014-2015 Desiree Ortiz, University of PR, School of Sciences
32. 2010 Lucelenie Rodriguez, University of PR, School of Sciences
33. 2010-2011 Pamela Padro Juarbe, University of PR, School of Sciences
34. 2010-2012 Juan Luis Rivera, University of PR, School of Sciences
35. 2011-2012 Ana Maldonado Albertorio, University of PR, School of Sciences
36. 2011-2013 Selena Rodriguez, University of PR, School of Sciences
37. 2012-2015 Noraliz Garcia, UPR, University of PR, School of Sciences
38. 2012 Valerie Figueroa, University of PR, School of Sciences
39. 2012-2013 Max Berrios, UPR, University of PR, School of Sciences
40. 2014 Bryan Rios, UPR, University of PR, School of Sciences
41. 2013 Carlos Lopez, UPR, University of PR, School of Sciences
42. 2014-2016 Tania Garcia, UPR, University of PR, School of Sciences
43. 2014-2015 Edward Hennis, NYU School of Medicine
44. 2015-2016 Hebe Rosado, University of PR, School of Sciences
45. 2015-2016 Cochranlee Villanueva University of PR, School of Sciences
46. 2016 Aysha Malik, Boston University
47. 2016 Oge Onuh, Mercer University
48. 2017 Gabriela Pereira, Princeton University
49. 2017 Sandra Yin, Columbia University
50. 2017 Anna Kuznetsova, NYU
51. 2019 Jared Lim (Rutgers, Biotechnology)
52. 2018- 2019 Sami Eirekat, Microbiology, Rutgers University
53. 2018- 2019 Melina Luu, Anthropology, Rutgers University
54. 2018-2019 Sherry Wang, Rutgers University
55. 2019 Jarrick Lam, Rutgers University
56. 2018-2020 Ciarra Williams, Rutgers University
57. 2019-2020 Libby Wu, Rutgers University

High School Students

1. 2006 Juan Ortega. Funded by High School-COR Career and Search Opportunities, NIH
2. 2006 Adriana Rivera. High School COR Career and Search Opportunities, NIH
3. 2016 Kaiyuan Yang, Shanghai, China

Congress Presentations since 2017 (150 on or before 2016)

- 151- Angelina Volkova, Monica Contreras, Oscar Noya-Alarcon, Orlana Lander, Kelly Ruggles, Maria G. Dominguez Bello. Impact of Short-term Lifestyle Changes on the Human Microbiome. **117th General Meeting of the American Society for Microbiology (ASM)**, New Orleans, LA, USA, June, 2017.
- 153- Keith A Martinez II and Maria Gloria-Dominguez Bello. Maternal blood supplies bacterial DNA to the placenta and fetus. **117th General Meeting of the American Society for Microbiology (ASM)**, New Orleans, LA, USA, June, 2017.
- 154- Liza Garcia-Recinos, Patricia Burrowes, Maria Dominguez-Bello. Seasonal and location variations of the *Eleutherodactylus coqui* frog skin microbiota. **117th General Meeting of the American Society for Microbiology (ASM)**, New Orleans, LA, USA, June, 2017.
- 155- Vargas-Robles D, Magris M, Morales N, de Koning M.N.C, Rodriguez I, Nieves T, Godoy-Vitorino F. Sanchez G I, Alcaráz L.D, Pérez M.E, García-Briceño van Doorn L, Dominguez-Bello MG. Human Papilloma Virus in Women Spanning Urbanization. **117th General Meeting of the American Society for Microbiology (ASM)**, New Orleans, LA, USA, June, 2017.
- 156- Martinez II KA, Romano-KeelerJ, Moore DJ, Brucker RM, Hooper C, Meng S, Brown N, Mallal S, Reese JJ, Shin, H, Aronoff, D, Dominguez-Bello MG, Weitkamp, JH. Bacterial DNA is present in the fetal intestine and overlaps with the placenta. **Recent Advances in Neonatal Medicine 2017**, Würzburg, Germany, October 2017.
- 157- Dominguez-Bello MG. Importance of the microbiota to infant development. **2018 Symposium Microbiology at Rutgers** (Keynote Speaker). New Brunswick, Febr 2018.
- 158- Dominguez-Bello MG. **Sixth semi-annual retreat of Symbioses: A BioSocial Network, 2018.** (Invited speaker). New Brunswik, February 2018.
- 159- Dominguez-Bello MG. Effect of C-section on the microbiota and host phenotype. **Keystone Symposium on Microbiome, Host Resistance and Diseases**. Banff, Alberta Canada, March 4 – 9, 2018.
- 160- Dominguez-Bello MG. Effect of C-section on the human microbiota. **Annual meeting of the American Asociation of Physical Anthrpology (AAPA) 2018**. Austin, TX April 11-14, 2018. Proceedings published in **American Journal of Physical Anthropology**. 165: 70
- 157- Mueller NT, Noya-Alarcon O, Contreras M, Appel LJ, Dominguez-Bello MG. Age-Related Blood Pressure Changes at the Incipient Stages of Westernization in Yanomami and Yekwana Tribes. **American Heart Association 2018 EPI|Lifestyle Scientific Sessions**, New Orleans, LA 2018. Circulation 137 (Suppl 1), A029-A029
- 158- Murphy K, Keller MJ, Anastos K, Sinclair S, Devlin JC, Shi Q, Hoover DR, Starkman B, McGillick J, Mullis C, Minkoff H, Dominguez-Bello MG, Herold B. Menopause impacts the vaginal microbiome and immune mediators in women with HIV. **Conference on Retroviruses and Opportunistic Infections (CROI)**, 2018. Seattle, Washington, March 4 – 7.
- 159- Wang, J., Deng, Y., Martinez, K.A.II, Zhang, T., Dominguez-Bello, M.G. The neonatal microbiota carries antibiotic resistance genes. **119th General Meeting of the American Society for Microbiology (ASM) 2019**. San Francisco, CA.
- 160- Wang, J., Noya-Alarcon, O., Contreras, M., Lander, O., Mueller, N.T., Dominguez-Bello, M.G. Incipient exposure to urban practices in hunter-gatherers and associations with the gut microbiota. **119th General Meeting of the American Society for Microbiology (ASM) 2019**. San Francisco, CA.
- 161- Dominguez-Bello, MG. The microbiome in an age of anthropogenic perturbations **CMI International Microbiome Meeting** - San Diego March 2020.
- 162- Dominguez-Bello, MG. Microbiome and Virome of Non-Westernised Communities. **The Barcelona Debates on the Human Microbiome**, Online, June 2020
- 163- Dominguez-Bello, MG. Parenting and Microbiology. **ASM Microbe 2020**, Online, July 2020