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Curriculum Vitae

Maria Gloria Dominguez Bello
Henry Rutgers Professor of Microbiome and Health
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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, VZ.
1993-2000 Associate Professor/Researcher, Venezuelan Institute of Scientific Research (IVIC).
2000-2003 Professor/Researcher, Venezuelan Institute of Scientific Research (IVIC).
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. USA.
2018-present Henry Rutgers Professor of Microbiome and Health, Rutgers University, New Brunswick, CT.

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-present Visiting researcher, Department of Anthropology, New York University.
2017 Visiting Professor, Rutgers University, New Brunswik.

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 Fellowship for Resident Researcher, CONICIT, Venezuela.
1990-2004 Program for Research Promotion, CONICIT, Venezuela.

1993	Marie Curie Post-Doctoral Fellowship, European Community. Rowett Res. Inst., Scotland and INRA Theix, France.
1993	Roi Baudouin Award, International Foundation for Science, Sweden.
1997-1998	Spanish Ministry of Education and Science, CSIC postdoctoral fellowship. Center of Molecular Biology Severo Ochoa, University Autonoma of Madrid, Spain.
2002	Medal of Merit, Venezuelan Institute of Scientific Research (IVIC), Venezuela.
2008	Fellow, Infectious Diseases Society of America (FIDSA).
2008-2011	American Society for Microbiology Ambassador for the Central American and Caribbean region.
2013	Fellow, American Academy of Microbiology (AAM).
2015	Arturo Carrion Award, Puerto Rico Society of Microbiology
2018	American Society for Microbiology Council on Microbial Sciences (COMS), Division Interdisciplinary Councilor

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, Sardina, 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-present	Faculty Member, Sackler Institute, NYU School of Medicine
2016-present	Faculty Mentoring Committee for Kelly Ruggles, NYU School of Medicine

Memberships and Committee Assignments in Professional Societies

2011 Member, International Society for Microbial Ecology (ISME)
2004 Member, American Society for Microbiology (ASM)
2004-08 Member, Research Committee, Infectious Disease Society of America.
2013-2016 Member, AAM - EMD Millipore Alice C. Evans Award Nominations Committee
2016-present Member, American Academy of Microbiology (AAM) Committee on Elections
2016-present Member, American Association for the Advancement of Science (AAAS)
2016-present Member, American Anthropological Association (AAA)
2017-present Member, International Society for Developmental Origins of Health and Disease (DOHaD)
2017 Member fo the 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).

Editorial Positions

2007-2015 Associate Editor, *Livestock Science*
2011-2014 Associate Editor, *Microbial Ecology*
2013-2015 Associate Editor, *Frontiers in Microbiology*
2013-2015 Associate Editor, *Microbes and Infection*
2014-present Editor, *mBio*
2015-present Editor, *Scientific Reports*

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 Inmmunology; 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 ProposalsReviewer

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 transculturation; microbiome development and evolution; microbial Ecology.

Personal Statement

Research in my lab focuses on the study the co-evolution of the microbiota and host, and impacts exerted by Western lifestyle practices. We study human microbiome development, structure and function and characterize the effect of perturbations, and explore restoration strategies. We also study the role of the built environment in microbial transmission, integrating the fields of anthropology and architecture into microbial ecology.

Ongoing Research Support

Juvenile Diabetes Research Foundation (JDRF) Dominguez-Bello (PI) 12/01/16 – 12/01/19
Strategic Research Agreement (SRA): **C-section-like microbiota and alterations of immune responses.**
The major goal of this study is to determine microbial factors that increase or decrease T1D outcomes, using the NOD mouse model.

C&D Research Fund Dominguez-Bello (PI) 05/01/14 – 00/00/00
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 Dominguez-Bello (PI) 10/15/13 – 00/00/00
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.

Scientific Boards and Community Organizations
2016-present Co-Founder and Scientific Advisory Board Member of CommenSe, Inc., Boston MA

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.
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
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.
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.
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.
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 toxinología del Síndrome Parapléjico de los bovinos. **Acta Científica Venezolana. 1993**. 44:131-142.
8. 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.

9. Dominguez-Bello MG, Jouany JP, Chemello ME, Michelangeli F. Cytotoxicity of some plant secondary compounds and their effect on rumen fermentation**. Journal of Agricultural and Food Chemistry. 1993**. 41: 2045-2050.
10. 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.
11. Sevcik C, Brito JC, D'Suze G, Dominguez-Bello MG, Lovera M, Mijares A, Bonoli, E. Toxinology of bovine paraplejic syndrome. **Toxicon. 1993**:31(12):1581-1594. PMID: 8146871
12. Dominguez-Bello, M.G., Lovera, M. Sevcik, C. Brito, J.C. Characterization of ruminal bacteria producing a toxin associated with a bovine paraplegic sindrome. **Toxicon. 1993**:31(12):1595-1600. PMID: 8146872
13. Yurman D, Dominguez-Bello MG. Bacterial inhabitants of the gut of Neotropical Cephalotini ants. **Folia Microbiologica. 1993.** 38: 515-518.
14. Dominguez-Bello MG, Michelangeli F, Ruiz MC, García A, Rodríguez E. Ecological aspects of the folivorous avian hoatzin (*Opisthocomus hoazin*) in the Venezuelan plains. **The Auk. 1994.** 111: 643-651.
15. Ruiz MC, Dominguez-Bello MG, Michelangeli F. Gastric lysozyme in the hoatzin (*Opisthocomus hoazin*), an avian folivore. **Experientia. 1994**. 50: 499-501.
16. Borges P, Herrera E, Dominguez-Bello MG. Digestive physiology of wild capybara. **Journal of Comparative Physiology Series B. 1996**. 165:166:55-60.
17. Dominguez-Bello MG. Detoxification in the rumen. **Annals de Zootechnie. 1996.** 45:323-327.
18. 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.
19. 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
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21. 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. jonesii*. **FEMS Microbiology Ecology. 1998**: 27(2):127-132. DOI: 10.1111/j.1574-6941.1998.tb00530.x
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26. 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. DOI: 10.1016/S0377-8401(00)00199-1

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33. 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. DOI: 10.1073/pnas.242574599
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35. 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.
36. 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. DOI: 10.1650/7406
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39. 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
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42. 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.
43. 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. DOI: 10.1016/j.cbpa.2006.07.010
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53. 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. DOI: 10.1128/JB.00063-10
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Invited Chapters

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109. 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.
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117. Dominguez-Bello MG, Blaser MJ. Asthma: Undoing millions of years of coevolution in early life? **Science Translational Medicine. 2015**:7(307):307fs39-307fs39. DOI: 10.1126/scitranslmed.aad2741
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List of Published Work in PUBMED: search "Dominguez-Bello MG[au]"
https://www.ncbi.nlm.nih.gov/pubmed/?term=Dominguez-Bello+MG%5Bau%5D

Invited Speaker, Conferences and Universities

National (last 2 years)

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).

International (last 2 years)

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