

Verónica Donato, PhD

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CURRENT POSITION

Postdoctoral Researcher 2018-present
University of Alabama, Birmingham (UAB). Department of Biology.
School of Art and Sciences.
Gut microbiome, aging and neurodegenerative diseases in mice, rats and *C. elegans*.
Mentor: Liou Sun

EDUCATION

Bachelor degree in Biotechnology 2000
National University of Rosario. School of Biochemistry. Maiztegui Virology Institute.
Thesis: Detection by RT-PCR of virus Junin in patients with Hemorrhagic Argentina fever

PhD in Biological Sciences 2012
National University of Rosario. Pharmacology and Physiology Lab. Mentor: Liliana Monasterolo, PhD
Thesis: Effects of the agonist GABAB, baclofen, on tubular renal function. Studies in the early stages of experimental diabetes

Bachelor degree in Law 2007-present
Universidad Siglo 21. Argentina
Thesis related with Law, Science and Technology estimated date: 2019

Harvard Medical School Global Clinical Scholars Research 2018-2019
Training (GCSRT) Program
Certificate estimated date: June 2019

Clinical and Translational Science (CTS) training Program. 2019-present
School of Medicine. University of Alabama at Birmingham

ACSTH International Coach Federation (ICF) 2018
Axon Training, Argentina

DOCTORAL AND POSTDOCTORAL RESEARCH

PhD in Biological Sciences 2012
National University of Rosario. Pharmacology and Physiology Lab. Mentor: Liliana Monasterolo, PhD

Postdoctoral fellow 2013-2018
National University of Rosario. School of Biochemistry. CONICET. Molecular Microbiology Lab. Mentor: Roberto Grau, PhD

Short Research Postdoctoral Internship 2015-2016 (3 months)
Duke University, Durham, North Carolina. Molecular Genetics and Microbiology Lab.
This internship allowed me to learn techniques to study the microbiota effects in *C. elegans* nervous system.

Postdoctoral Scholar 2017 (4 months)
Department of Biological Sciences
Pittsburgh University Fellowship
Dietrich School of Arts and Sciences, University of Pittsburgh, Pittsburgh, PA.
This position allowed me to learn the last molecular biology and genetics techniques as well as cells culture methods.

PUBLICATIONS

Verónica Donato, Pisani G B, Trumper L, Monasterolo L. 2013
Effects of "in vivo" administration of baclofen on rat renal tubular function. **Eur. J Pharmacol.** 715 (1 - 3): 117-122.

Roberto R. Grau, Paula de Oña, Maritta Kunert, Cecilia Leñini, Ramses Gallegos-Monterrosa, Eisha Mhatre, Darío Vileta, **Verónica Donato**, Theresa Hölscher, Wilhelm Boland, Oscar P. Kuipers, and Ákos T. Kovács. 2015. A duo of potassium-responsive histidine kinases govern the multicellular destiny of *Bacillus subtilis*. **mBio**. Jul-Aug; 6(4): e00581-15.

Sebastián Cogliati, Juan Gabriel Costa, **Verónica Donato** and Roberto Grau. 2016
Spores as agents of mass destruction: prevention and countermeasures. **Journal of Bioterrorism and Biodefence.** 7: 1

Verónica Donato, Sebastián Cogliati, Facundo Rodríguez Ayala, Juan Gabriel Costa, Cecilia Leñini and Roberto Grau. *Bacillus subtilis* biofilm extends *Caenorhabditis elegans* longevity

through a downregulation of the insulin-like signaling pathway. **Nature Communications**. 2017 **8:14332**.

Verónica Donato. SpooA, as a master regulator of multicellularity in *Bacillus subtilis*. **International Journal of Microbiology and Infectious diseases**. 2017. **1 (2): 1-10**

Verónica Donato. El Mundo de los Biofilms. Editorial: Autores de Argentina. 2017. eBook <http://autoresdeargentina.com/el-mundo-de-los-biofilms-veronica-donato/>

Verónica Donato. Antibiotic resistance in humans. 2018. *Journal of Bacteriology and Mycology*. **6 (2): 139**

GRANTS AND FELLOWSHIPS

PDT38 CONICET postdoctoral fellowship. 2014-2017. Mentor: Dr. Grau, Roberto. National University of Rosario. School of Biochemistry. Molecular Microbiology Lab.

CONICET grant for Postdoctoral Short Research Internship. 3 months (November 2015 to February 2016). Duke University, Durham, North Carolina, US. Mentor: Aballay, Alejandro. 3000 dollars and benefits.

Jackson Lab fellowship to attend Advance Course of Surgical Techniques. June 2016. Bar Harbor, Maine. US. 2500 dollars.

EMBO grant to attend the course Small Brains Big Ideas, Chile. November 9-19 2016.

HONORS AND AWARDS

Best student in the Course Urology and Oncology. 2010. National University of Mendoza, Mendoza, Argentina. 10/10

International Cell culture techniques Course. 2012. Complete grant to attend it. Pasteur Institute, Montevideo, Uruguay.

Mutual Carlos Pellegrini, Rosario, Santa Fe, Argentina. Best Postdoc Student of Rosario. 5000 dollars for 3 years. 2014-2016

Award of Excellence in Science as a first author of “*Bacillus subtilis* biofilm extends *Caenorhabditis elegans* longevity through a downregulation of the insulin-like signaling pathway” a project of national and international relevance for human quality of life and longevity. Municipalidad de Rosario. Santa Fe Government. 2017.

PROFESSIONAL MEMBERSHIPS

American Association of Cancer Research, associate member 2011-2016

Argentina Society of General Microbiology 2014-2017

American Society of Microbiology postdoctoral membership 2014 -present

American Society of Genetic postdoctoral membership 2014 –present

AAAS 2017-present

National Postdoc Association (NPA) 2018-2019

New York Academy of Sciences 2018-present

TEACHING EXPERIENCE

National University of Rosario. School of Biochemistry:

Ad honorem Teacher Assistant for Biology Course. 1997-1998

Principal Professor for Inorganic Chemistry Course. 2001-2004 and 2014-2016

Research Project mentor of one Biotechnology and one Medicine bachelor students. 2014-2016

National University of Rosario. School of Medicine:

Associate professor for Transport through membrane Course in the Doctoral degree of Biomedical Sciences. 2001-

Universidad Abierta Interamericana (UAI):

Principal professor for Human Genetics Course. 2007-2008

National University of Rosario. School of Engineering:

Assistant Professor for Biotechnology of industrial microorganisms Course in the Master degree in Food Technology. 2014-present

INTERNATIONAL PRESENTATIONS

Grau, R, **Donato V.** New developments using probiotic spores as alive adjuvants for vaccines. Adjuvant 2012 & Allergens and Vaccines. Varadero, 2012.

Leñini C, **Donato V.**, Bartolini M, Tonietti D, Farias M E, Grau R. Undomesticated spore - forming bacterial communities isolated from high andean mountains. 5th European Congress of Microbiology. Leipzig, 2013.

Vileta D, **Donato V.**, Oña P, Torres V, Grau R. The stress inducible transcription factor Sigma B plays to key role as modulator of biofilm growth and spore fitness in PGPR, *Bacillus subtilis*. II Latin American Workshop PGPR. Cordoba. 2014.

Donato V as attendant only. International Meeting of *C. Elegans*. Aging metabolism, stress, pathogenesis and small RNAs. Madison, Wisconsin. 2014.

Donato V and Grau R. Biofilm proficiency increases *Bacillus subtilis* gut colonization and lifespan in *Caenorhabditis elegans*. ASM International Meeting, New Orleans. 2015.

Donato V and Grau R. Biofilm proficiency increases *Bacillus subtilis* gut colonization and lifespan in *Caenorhabditis elegans*. *C. elegans* International Meeting, Los Angeles. 2015.

Donato V and Grau R. Bacillus subtilis and C. elegans are good friends. TAGC 2016. Orlando. 2016.

Donato V . Congenital Toxoplasmosis. University of Pittsburgh. Biological Science Department Meeting. March 2017.

Donato V. Bacillus subtilis, a probiotic bacterium, delays the aging process and neurodegeneration in C. elegans. 2018 Keystone Symposia Conference. Microbiome, Host Resistance and Disease. Banff, Alberta, Canada.

Donato V. Bacillus subtilis, a probiotic bacterium, delays the aging process and neurodegeneration in C. elegans. 2018 Microbiome Conference. Boston, USA.

Donato V. Bacillus Subtilis, A Probiotic Bacterium, Delays the Aging Process and Neurodegeneration in C. Elegans. 2018. ASM Microbe. Atlanta, USA.

Donato V. Bacillus subtilis, a probiotic bacteria, delay the aging process and neurodegeneration in C. elegans. 2018. International Human Microbiome Consortium Meeting. Kerry, Ireland.

Donato V. Bacillus subtilis, a probiotic bacterium, delays the aging process by the insulin-like signaling pathway in C. elegans. 2018. International Congress of the Growth Hormone Research and IGF Societies. Seattle, USA.

PROFESSIONAL CONTRIBUTIONS

Contributor to Micronow (AASS) 2017-present

Leader of the Genetic Society Association (GSA) Early Career Scientist Steering Committee 2018-present

Skype a Scientist 2018-present

Mentor at Junior Academy of the New York Academy of Sciences 2018-present

Mentor in the STEM U Program New York Academy of Sciences 2019-present

Peer Reviewer in Scientific Journals

Editorial Board Member in the Clinical Immunology and Research Journal 2017-present

Editorial Board Member in the International Journal of Microbiology and infectious diseases 2018-present

Reviewer Board Member in the Journal of Genetics, Genetics Society of America 2018- present

SELECTED INVITED PRESENTATIONS

Honorable Keynote Speaker at Global Vaccination International Meeting 2017

MOST RELEVANT COURSES WITH CERTIFICATES

International course in *C. elegans* 2014. National University of Rosario. School of Biochemistry. 85 hours. 2014

WIPO (WORLD INTELLECTUAL PROPERTY ORGANIZATION) General Course on Intellectual Property. 2017

Bloodborne Pathogen Training/ Purpose bred mice and rats in Research, testing and teaching/ Use laboratory animals in Research and Education/ Responsible conduct a research. Collaborative Institutional Training Initiative. Pittsburgh University, PA. 2017

Micromasters Program in Bioinformatics. University of Maryland. University College. E-learning. 2017-2018

Introduction to the Principles and Practice of Clinical Research (IPPCR). NIH Clinical Center. E-learning 2018

Microbes and brain. Institut Pasteur. E-learning. 2017

Hands-on metagenomics data analysis: tools for bioprospection in clinical and environmental microbiology. September 25-October 6, 2017. Institut Pasteur Montevideo, Uruguay.

Focus on Peer Review. Nature Masterclasses Online Course. December 2017

Nutrition and Health: Human Microbiome. Wageningen University. E-learning. 2018

Executive Coaching Certification. Liderarte. Laura Bicondoa. 2018

Master Coaching Skill. TeamPower. Elena Espinal. 2018-present

Peer Review Training Program at GSA 2018-present

Ethics GRD716 Graduate Course at UAB. 2019-present

SKILLS

Languages: SPANISH (native), ENGLISH (TOEFL 1998, 2000, 2012), Certificate for Advance English (CAE): estimated march 2019, Proficiency (estimated date: end 2019), ITALIAN (complete advance course in Dante Alighieri), FRENCH (DELF A1-A4)

Volunteer: I teach poor undergraduate students how they can continue their studies at the University. National University of Rosario and Rosario government ad honorem project.

Sports: running, functional training, pilates and cross-fit.

Passions: Teaching and mentoring, write scientific projects and articles, attend conferences, travel and spend time with my family. Peer reviewer and Scientific Communication. Clinical and Translational Research.