

Sabrina Andrea Foscaldi

GENERAL INFORMATION

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EDUCATION/TRAINING

- **2019 - present:** Postdoc in Structural biology.
Instituto de Investigaciones Bioquímicas de Buenos Aires (IIBBA) –CONICET. Fundación Instituto Leloir. Buenos Aires. Argentina.
“Molecular bases of the red/far red light signaling pathway involved in bacterial infection”.
Supervisor: Dr. Lisandro Otero.
Fellowship: Agencia Nacional de Promoción Científica y Tecnológica (ANPCyT).
- **2016 - 2019:** Postdoc in Molecular virology.
Centro de Virología Animal (CEVAN). ICT Milstein-CONICET. Buenos Aires. Argentina.
“Analysis of the role of cellular kinases in the regulation of Arenavirus replication”.
Supervisor: Dr. Nora López.
Co-supervisor: Dr. Osvaldo Rey.
Fellowship: Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET).
- **2010 - 2016:** PhD in Biological sciences of Facultad de Farmacia y Bioquímica (Universidad de Buenos Aires, UBA).
Centro de Virología Animal (CEVAN). ICT Milstein-CONICET. Buenos Aires. Argentina.
Thesis title: **“Study of the molecular determinants involved in the translation of Arenavirus messenger RNAs”.**
Supervisor: Dr. Nora López.
Fellowships: ANPCyT and CONICET.
- **2005 - 2009:** Thesinist of degree.
Biology and genetics molecular department. Facultad de Farmacia y Bioquímica (UBA).
Thesis title: **“Molecular analysis of polymorphisms and detection of mutations in the HNF-1 alpha gene in an Argentine population clinically characterized as MODY”.**
Supervisor: Dr. Gustavo Frechtel.
Co-supervisor: Dr. Ariel López.
- **1999 - 2009:** Bachelor in Genetics of Facultad de ciencias exactas, químicas y naturales. Universidad Nacional de Misiones (UNaM).

PUBLICATIONS

- **2021.** *Structural basis for the Pr-Pfr long-range signaling mechanism of a full-length bacterial phytochrome at the atomic level*. Lisandro H. Otero, **Sabrina Foscaldi**, Giuliano T. Antelo, Germán L. Rosano, Serena Sirigu, Sebastián Klinke, Lucas A. Defelipe, Maximiliano Sánchez-Lamas, Giovanni Battocchio, Valeria Conforte, Adrián A. Vojnov, Leonard M. G. Chavas, Fernando A. Goldbaum, Maria-Andrea Mroginski, Jimena Rinaldi, Hernán R. Bonomi.
Article **in press** in Science Advances Journal.
- **2021.** *Pr-favoured variants of the bacteriophytochrome from the plant pathogen Xanthomonas campestris hint on light regulation of virulence-associated mechanisms*. Valeria Conforte - Lisandro Horacio Otero, Laila Toum, Serena Sirigu, Giuliano Tomás Antelo, Jimena Rinaldi, **Sabrina Foscaldi**, Sebastian Klinke, Leonard Michel Gabriel Chavas, Adrian´ Alberto Vojnov, Fernando Alberto Goldbaum, Florencia Malamud and Hernan Ruy Bonomi. FEBS Journal, April 2021. doi: 10.1111/febs.15883.
- **2020.** *Development of a Reverse Genetic System to Generate Recombinant Chimeric Tacaribe Virus that Expresses Junín Virus Glycoproteins*. **Sabrina Foscaldi**, María Eugenia Loureiro, Claudia Sepúlveda, Carlos Palacios, María Belén Forlenza, Nora López. Pathogens 2020, 9, 948; doi:10.3390/pathogens9110948.
- **2020.** *Development of a hyperimmune equine serum therapy for COVID-19 in Argentina*. Vanesa Zylberman, Santiago Sanguinetti, Andrea V. Pontoriero, Sandra V. Higa, María L. Cerutti, Susana M. Morrone Seijo, Romina Pardo, Luciana Muñoz, María E. Acuña Intrieri, Vanina A. Alzogaray, Martín M. Avaro, Estefanía Benedetti, Paula M. Berguer, Laura Bocanera, Lucas Bukata, Marina S. Bustelo, Ana M. Campos, Mariana

Colonna, Elisa Correa, Lucía Craganz, María E. Dattero, María Dellafiore, **Sabrina Foscaldi**, Joaquín V. González, Luciano L. Guerra, Sebastián Klinke, María S. Labanda, Constanza Lauché, Juan C. López, Anabela M. Martínez, Lisandro H. Otero, Elías H. Peyric, Pablo F. Ponziani, Romina Ramondino, Jimena Rinaldi, Santiago Rodríguez, Javier E. Russo, Mara L. Russo, Soledad L. Saavedra, Mauricio Seigelchifer, Santiago Sosa, Claudio Vilariño, Patricia López Biscayart, Esteban Corley, Linus Spatz, Elsa G. Baumeister, Fernando A. Goldbaum. *MEDICINA* (Buenos Aires) 2020; Vol. 80 (Supl. III): 1-6.

- **2018.** *DDX3 suppresses type I interferons and favors viral replication during Arenavirus infection.* María Eugenia Loureiro, Andre Luiz Zorzetto-Fernandes, Sheli Radoshitzky, Xiaoli Chi, Simone Dallari, Nuha Marooki, Psylvia Lèger, **Sabrina Foscaldi**, Vince Harjono, Sonia Sharma, Brian M. Zid, Nora López, Juan Carlos de la Torre, Sina Bavari, Elina Zúñiga. *PLoS Pathog* 2018; 14(7): e1007125.
- **2018.** *Role of the ERK1/2 Signaling Pathway in the Replication of Junín and Tacaribe Viruses.* Jesús E. Brunetti, **Sabrina Foscaldi**, Verónica M. Quintana, Luis A. Scolaro, Nora López, Viviana Castilla. *Viruses* 2018, 10(4), 199; doi: 10.3390/v10040199.
- **2017.** *Regulation of Tacaribe Mammarenavirus Translation: Positive 5' and Negative 3' Elements and Role of Key Cellular Factors.* **Foscaldi S**, D'Antuono A, Noval MG, de Prat Gay G, Scolaro L, Lopez N. *J. Virol.* 2017 July;91(14); e00084-17.
- **2014.** *Differential contributions of Tacaribe arenavirus nucleoprotein N-terminal and C-terminal residues to nucleocapsid functional activity.* D'Antuono A, Loureiro ME, **Foscaldi S**, Marino-Buslje C, Lopez N. *J Virol.* 2014 Jun; 88(11):6492-505.
- **2011.** *Molecular determinants of arenavirus Z protein homo-oligomerization and L polymerase binding.* Loureiro ME, Wilda M, Levingston Macleod JM, D'Antuono A, **Foscaldi S**, Marino Buslje C, Lopez N. *J Virol.* 2011 Dec; 85(23):12304-14.
- **2011.** *HNF1 alpha gene coding regions mutations screening in a Caucasian population clinically characterized as MODY from Argentina.* Lopez AP, **Foscaldi SA**, Perez MS, Rodriguez M, Traversa M, Puchulu FM, Bergada I, Frechtel GD. *Diabetes Res Clin Pract.* 2011 Feb;91(2):208-12.
- **2010.** *Diagnóstico molecular de diabetes tipo MODY en un grupo de pacientes clínicamente caracterizados, por análisis de 2 genes relacionados.* **Foscaldi SA**, Pérez MS, Rodríguez M, Traversa M, Puchulu FM, Bergada I, Frechtel GD, López AP. *Prensa Médica Argentina* 2010. Jun; 97(4): 195-202.
- **2009.** *Glucokinase gene mutation screening in Argentinean clinically characterized MODY patients.* Lopez AP, **Foscaldi SA**, Pérez MS, Krochik G, Rodríguez M, Traversa M, Puchulu FM, Hirschler V, Bergada I, Frechtel GD. *Exp Clin Endocrinol Diabetes.* 2009 Sep;117(8):391-4.

CONGRESSES AND PRESENTATIONS

- 19 presentations in congresses and scientific societies.

AWARDS

- **2017.** *Award for the best work in Human Virology. Study of the arenavirus nucleoprotein interactome reveals new cellular factors involved in viral growth.* Loureiro ME, Dallari S, Marooki N, **Foscaldi S**, Fernandes A, Radoshitzky S, López N, Zuniga E. XII Argentine Congress of Virology. Buenos Aires, Argentina.
- **2014.** *MINCYT – NOVO NORDISK Award for Clinical Research in Diabetes, edition 2013. Search for mutations in the coding regions of the HNF-1 alpha gene, in a Caucasian population clinically characterized as MODY from Argentina.* López AP, **Foscaldi SA**, Perez MS, Rodriguez M, Traversa M, Puchulu FM, Bergada I, Frechtel GD.

TEACHING EXPERIENCE

- **2019 - 2020:** Associate Professor in Genetics department. Facultad de Ciencias Exactas y Naturales. Universidad Nacional de Moreno. Buenos Aires. Argentina.
- **2014 - 2017:** Teaching Assistant in Biotechnology department. Universidad de Morón. Buenos Aires. Argentina.
- **2010 - 2011:** Teaching Assistant in Biology Department. Universidad Argentina J. F. Kennedy. Buenos Aires. Argentina.