

MAXIMILIANO FERNANDO PRESA

Phone: 1-207-288-6472

Email: maximiliano.presa@jax.org

The Jackson Laboratory.

600 Main st. Bar Harbor, ME, 04609.

EDUCATION

Ph.D. Immunology.	University of Barcelona, Spain. Supervisor: Dr. Thomas Stratmann. Thesis: <i>Development of vaccines for the treatment of type 1 diabetes in NOD mice.</i>	2008-2012
M.S. Immunology.	University of Barcelona. Spain. Supervisor: Dr. Thomas Stratmann. Dissertation topic: Generation of oral vaccines and manipulation of T CD4+ cells in mouse model for type 1 diabetes.	2006-2008
B.S. Biotechnology.	School of Biochemistry and Biological Sciences. National University of Littoral. Santa Fe. Argentina Mentors: Dr. María Cristina Lura and Ana Maria Gonzalez. Project: <i>Detection of fungal metabolites showing toxic activity through Artemia salina bioassay</i>	2005

POSITIONS

Technology and Resource Development Scientist	The Jackson Laboratory. Bar Harbor, ME, USA. Department: Genetic Resource Sciences (GRS). Rare Orphan Diseases Center.	August 2017-present
Postdoctoral associate	The Jackson Laboratory. Bar Harbor, ME, USA. Supervisor: Professor David V. Serreze Ph.D. Project: <i>Nfkbid</i> contributions to the thymic deletion of diabetogenic CD8 T-cells.	May 2012- August 2017
Pre-doctoral contract	Department of Physiology and Immunology, University of Barcelona, Spain. Supervisor: Dr. Thomas Stratmann. Project: <i>Development of new approach for the treatment of type 1 diabetes in NOD mice</i>	September 2006- March 2012

Laboratory technician Institute for Food Technology (ITA – FIQ - UNL). Argentina.
Supervisor: Cecilia Bernardi M.S. January 2002- July 2005

FUNDING AND AWARDS

- **JDRF Postdoctoral fellowship award** “*Nfkbid* contributions to the thymic deletion of diabetogenic CD8 T-cells “. (3-PDF-2014-219-A-N). 2014-2017
- **The Jackson Laboratory Fellowship award.** 2012-2014
- **Grant "Research Initiation"**. National University of Littoral (UNL), Argentina. 2002-2005

PUBLICATIONS

Peer reviewed contributions:

1. **Maximiliano Presa**, Jeremy J Racine, Deanna Lamont, Jennifer Dwyer, Jeremy Ratiu, Vishal Kumar Sarsani, Yi-Guang Chen, Aron Geurts, Ingo Schmitz, Timothy Stearns, Jennifer Allocco, Harold D Chapman, David V Serreze. *A Hypermorphic Nfkbid Allele Contributes to Impaired Thymic Deletion of Autoreactive Diabetogenic CD8+ T Cells in NOD Mice.* **J Immunol.** 2018 Oct 1;201(7):1907-1917. doi: 10.4049/jimmunol.1800465. Epub 2018 Aug 20.
2. **Maximiliano Presa**, Yi-Guan Chen, Alexandra E. Grier, Edward H. Leiter, Michael A. Brehm, Dale L. Greiner, Leonard D. Shultz, David V. Serreze. The Presence and Preferential Activation of Regulatory T Cells Diminish Adoptive Transfer of Autoimmune Diabetes by Polyclonal Nonobese Diabetic (NOD) T Cell Effectors into NSG versus NOD-scid Mice. **J Immunol.** 2015 Oct 1;195(7):3011-9. doi: 10.4049/jimmunol.1402446. Epub 2015 Aug 17. PMID: 26283479.
3. Shirng-Wern Tsaih, **Maximiliano Presa**, Shamim Khaja, Ashley E. Ciecko, David V. Serreze, and Yi-Guang Chen. A locus on mouse Chromosome 13 inversely regulates CD1d expression and the development of invariant natural killer T-cells. **Genes Immun.** 2015 Feb 5. doi: 10.1038/gene.2014.81. PMID: 25654212.
4. Garabatos N, Alvarez R, Carrillo J, Carrascal J, Izquierdo C, Chapman HD, **Presa M**, Mora C, Serreze DV, Verdaguer J, Stratmann T. 2014. In Vivo Detection of Peripherin-Specific Autoreactive B Cells during Type 1 Diabetes Pathogenesis." **J Immunol.** 2014 Apr 1;192(7):3080-90. doi: 10.4049/jimmunol.1301053. Epub 2014 Mar 7. PMID: 24610011.
5. **Presa M**, Zarama Ortiz A, Garabatos N, Izquierdo C, Rivas EI, Teyton L, Mora C, Serreze D, Stratmann T. 2013. Cholera toxin subunit B-peptide fusion proteins reveal impaired oral tolerance induction in diabetes-prone but not in diabetes-resistant mice. **Eur J Immunol.** 2013 Nov;43(11):2969-79. doi: 10.1002/eji.201343633. Epub 2013 Aug 27. PMID: 23925934.

6. Elisa I. Rivas, John P. Driver, Maria N. Garabatos, **Maximiliano Presa**, Conchi Mora, Fernando Rodriguez, David V. Serreze, Thomas Stratmann. *Targeting of a T Cell Agonist Peptide to Lysosomes by DNA Vaccination Induces Tolerance in the Non-Obese Diabetic Mouse*. **J Immunol**. 2011 Apr 1;186(7):4078-87. doi: 10.4049/jimmunol.0902395. Epub 2011 Feb 23. PMID: 21346228.
7. Freyre, M., C. Bernardi, C. Baigorria, V. Rozycki, A. Piagentini, **M. Presa**, and H. Taher. 2010. Nutritionally important parameters from vinal (*Prosopis ruscifolia*) seeds. **FAVE Sección Ciencias Agrarias** 9: 89-96.
8. Ana María González, **Maximiliano Presa**, María Gabriela Latorre, María Cristina Lurá. *Detection of fungal metabolites showing toxic activity through Artemia salina bioassay*. **Rev Iberoam Micol**. 2007 Mar;24(1):59-61. Spanish. PMID: 17592895.
9. Ana María Gonzalez, **Maximiliano Presa**, María Cristina Lurá. *Artemia salina: Toxicity assay. Adjustment and application to mycotoxins*. **Journal FABICIB**. 2003. Vol. 7. pp 117-122.

INVITED TALKS

- Maximiliano Presa, Cathleen Lutz, Crystal Davis, Jennifer Cook, Robert Burgess, Rachel Bailey, Steven Gray. Pre-Clinical Gene Therapy in a Mouse Model for Charcot-Marie-Tooth Type 4J. American Society of Gene and Cell Therapy 22nd annual meeting. April 29 – May 2, 2019. Washington DC, USA.
- Maximiliano Presa, Deanna Lamont, Harold D. Chapman, Jennifer Allocco David V. Serreze. **The *Idd7*-associated gene *Nfkbid* modulates thymic negative selection in NOD mice**. Oral presentation at **IDS 2017 Immunology of Diabetes Society 15th International Congress**. January 19-23 2017. San Francisco, USA.
- Maximiliano Presa, Thomas Stratmann. *Study of the involvement of antigen-specific T cells in the generation of oral tolerance in NOD mice*. Oral presentation at **IVth Congress of “Catalonian Society of Immunology” – II SEI joint symposium**. Barcelona. Spain. (November, 2010).

EDITORIAL SERVICE

- **Reviewer** for Journal of Clinical Immunology and Immunotherapy. Herald Scholarly Open Access (HSOA).
- **Reviewer** for journal “Biochemistry and Biotechnology Research”.
- **Associate Editor**. Diabetes & Obesity International Journal (DOIJ) Medwin Publishers.

TEACHING AND MENTORSHIP

- **Isabel Stewart**, The University of Vermont, VM, Usa. The Jackson Laboratory Summer Student Program. Project Title: Studying the genetic basis for autoreactive CD8+ T-cell development in Type 1 diabetes.
- **Jennifer Allocco**. The University of Connecticut, CT, USA. The Jackson Laboratory Summer Student Program. Project Title: Analysis of autoreactive type 1 diabetes contributory CD8 T-cell frequencies in *Nfkbid* deficient NOD mice.
- **Teacher Assistant Genetic 1** course fall 2016. The Jackson Laboratory, Bar Harbor, ME, USA.