

# CURRICULUM VITAE

**Gabriel Rabinovich (2023)**

## 1. PERSONAL INFORMATION

Name: Gabriel Adrián Rabinovich, Ph.D

Contact Information: Laboratory of Glycomedicine,

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National Council for Scientific and Technological Investigations (CONICET),

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Identification # (CUIL): 20-20621393-1

## 2. BRIEF PERSONAL STATEMENT

►For more than 30 years, I have investigated the role of glycans and glycan-binding proteins in mediating cellular processes central to immune regulation and human diseases. We demonstrated that endogenous galectins can translate glycan-encoded information into novel regulatory programs that control tumor immunity, promote resolution of autoimmune inflammation, induce fetomaternal tolerance, sustain blood vessel formation and control host-pathogen interactions. We share the common goal of performing fundamental research as well as preclinical validation of immunotherapeutic targets contributing with new findings that bridge the gap between glycobiology, immunology, and cancer biology.

## 3. PRESENT POSITION

- Head Laboratory of Glycomedicine and Immunopathology, Institute of Biology and Experimental Medicine (IBYME), Buenos Aires, Argentina.
- Senior Investigator, National Council of Scientific and Technical Investigations (CONICET), Buenos Aires, Argentina
- Full Professor, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina
- Leader Glycoscience Program, IBYME, Buenos Aires, Argentina
- Co-founder of GALTEC Life (A Biotech Startup for Development of Galectin-based Technologies (2022)).

## 4. ACADEMY MEMBERSHIP

- Elected Member of the **Argentinean Academy of Science** (2011, Argentina)
- Elected Member of the **US National Academy of Sciences (NAS, USA)** (2016; Washington DC)
- Elected Member of the **World Academy of Sciences (TWAS; 2017 Trieste, Italy)**
- Elected Member of the **Latin American Academy of Science** (2017, Venezuela)
- Elected Member of the **Cordoba Academy of Medicine** (2017, Córdoba, Argentina)
- Elected Member of the **National Academy of Exact and Natural Sciences** (2021, Buenos Aires, Argentina)
- Elected Member at **EMBO** (European Molecular Biology Organization) (2022; Heidelberg, Germany)

## 5. EDUCATION AND PROFESSIONAL EMPLOYMENT

- ▶ 1993 MSc, Biochemistry, Faculty of Chemical Sciences, National University of Córdoba, Argentina
- ▶ 1996 Training Molecular Immunology, Weizmann Institute of Science, Rehovot Israel.
- ▶ 1997 Training Molecular Biology Unit, Kennedy Institute of Rheumatology, Imperial College, London, UK
- ▶ 1999 Ph.D. in Immunology, Glycosciences Program, Faculty of Chemical Sciences, National University of Córdoba, Argentina
- ▶ 1999-2001 Post-doctoral Fellow School of Medicine, University of Buenos Aires, Argentina
- ▶ 2001-2004 Associate Investigator (National Council Research CONICET, Argentina)
- ▶ 2004-2009 Independent Investigator (National Council Research CONICET)
- ▶ 2009-2014 Principal Investigator (National Council Research CONICET, Argentina)
- ▶ 2014-present Senior Investigator and Chair (National Council Research CONICET, Argentina)
- ▶ 2009-2020 Deputy Director, Institute of Biology and Experimental Medicine-Buenos Aires, Argentina.
- ▶ 2009-2020 Elected Member of the Council, Institute of Biology and Experimental Medicine, Buenos Aires
- ▶ 2009-present Director of the Glycoscience Program, Institute of Biology and Experimental Medicine, BA.

## 6. HONORS AND AWARDS (Selection)

- ▶ 1993. Gold Medal University Award, National University of Córdoba, Argentina.
- ▶ 1997. Journal of Biochemistry Award. Best paper of the year, Tokyo, Japan.
- ▶ 1998. The Young Outstanding Scientist of Latin America (SBBq; Rio de Janeiro, Brazil)
- ▶ 2000. Leon Cherny Award to the best multidisciplinary work, Society of Clinical Investigation, Argentina.
- ▶ 2000. Luis Federico Leloir Award to the best PhD thesis work, School of Exact and Natural Sciences, University of Buenos Aires
- ▶ 2001. Leonardo Satz Award Argentinean Immunology Society, First Prize Buenos Aires, Argentina.
- ▶ 2002. Cesar Milstein Award in Immunology, Buenos Aires, Argentina.
- ▶ 2004. Leonardo Satz Award, Argentinean Society of Immunology, First Prize, Argentina.
- ▶ 2004. Bernardo Houssay Award, Secretary of Science and Technology, Government of Argentina, Argentina
- ▶ 2004 Adjunct Visiting Professor, University of Maryland, Baltimore, USA.
- ▶ 2005. Mizutani Foundation for Glycosciences Award (Tokyo, Japan)
- ▶ 2005. Bunge & Born Young Award in Biochemistry (Buenos Aires, Argentina).
- ▶ 2006. The John Simon Guggenheim Memorial Foundation Award (New York, USA).
- ▶ 2007. Cancer Immunology Award (Cancer Research Institute, New York, USA).
- ▶ 2008. Visiting Professor University of Miami, Center of Diabetes Research, Miami, USA.
- ▶ 2008. First Prize Leonardo Satz, Argentinean Society of Immunology, Argentina.
- ▶ 2008. First Prize Florencio Fiorini and University El Salvador, Glycoimmunology, Buenos Aires, Argentina.
- ▶ 2008. First Prize Bauer, Inflammation and Trauma Meeting, Munchen, Germany
- ▶ 2009. First Prize Leon Cherny to Multidisciplinary Work, Society of Clinical Investigation, Argentina.
- ▶ 2009. First Prize Ranwell Caputto in Biology, National Academy of Sciences, Argentina.
- ▶ 2010. Bernardo Houssay Award in Biochemistry, Ministry of Science, Argentina.
- ▶ 2011. The Third World Academy of Science (TWAS) Prize in Medical Sciences (Trieste, Italy) given annually to the most outstanding scientist in Medical Research in developing countries.
- ▶ 2011. Chair First Keystone Symposium "New Frontiers in Immunity and Glycobiology" (Lake Louis, Canada)
- ▶ 2011. Visiting Professor University of Paris
- ▶ 2011. Mizutani Foundation for Glycosciences Award (Tokyo, Japan)

- ▶ 2012. First Prize Farina de Raveglia, Society of Clinical Investigation, Argentina.
- ▶ 2012. First Prize Baron Foundation in Biomedical Research, National Academy of Medicine, Argentina
- ▶ 2014. Bunge & Born Award to the Most Outstanding Scientist in Biomedical Research in Argentina.
- ▶ **2014. Platinum Konex Award in Medicine to the Outstanding Scientist of the Decade in Argentina.**
- ▶ 2014. Oscar Orías Award, Society of Biology, Córdoba, Argentina.
- ▶ 2014. Distinguished Lecturer Award, Weill Cornell University, New York, USA.
- ▶ 2014. Honorary Citizen of Buenos Aires- Legislature- Government of the City of Buenos Aires, Argentina.
- ▶ 2014. Panamerican Biochemistry and Molecular Biology (PABMB) Lecture Award, Puerto Varas, Chile.
- ▶ 2014. Honorary Member, Royal College of Physicians of UK, Faculty of Pharmaceutical Medicine, London.
- ▶ 2014. Doctor *Honoris Causa*, National University of Cordoba, Argentina.
- ▶ 2015. Fiorini Prize to the Best work in Oncology, Buenos Aires, Argentina.
- ▶ 2016. Member of the International Committee Keystone Symposia (USA).
- ▶ 2016. First Prize in Pharmacology, Center of Pharmaceutical Chemistry (CEDIQUIFA), Argentina.
- ▶ 2016. Doctor *Honoris Causa* Catholic University of Córdoba, Argentina.
- ▶ 2016-present. Member Latin American Committee American Association of Cancer Research (USA)
- ▶ 2017. First Prize "The Investigator of the Nation in Argentina" The most important award given annually by the Argentinean Government to an outstanding scientist across all disciplines. Buenos Aires, Argentina.
- ▶ 2017. First Prize Bernardo Houssay in Medical Research, Buenos Aires, Argentina.
- ▶ 2017. American Association of Immunologists (AAI) Career in Immunologists Award, Rockville, MD, USA.
- ▶ 2017. First Prize Cherny to the Best Multidisciplinary Work, Society of Clinical Investigation- Buenos Aires.
- ▶ 2018. First Prize Outstanding Scientist of the Year, Argentinean Academy of Exact and Natural Sciences,
- ▶ 2018. Domingo F. Sarmiento Award, given by The Senate of Argentina for Excellence in Science.
- ▶ 2018. Doctor *Honoris Causa* University Caecce, Buenos Aires, Argentina.
- ▶ 2018. Chair Latin American Congress American Association of Cancer Research (Sao Paulo, Brazil 2018)
- ▶ 2019. Doctor *Honoris Causa*, National University of Mar del Plata, Argentina.
- ▶ 2019. First Prize Argentinean Society of Clinical Oncology "*Galectins in tumor immunity*", Buenos Aires,
- ▶ 2019. First Prize Carlos Udaondo "*Glycans in intestinal immunity*", Argentinean Academy of Medicine,
- ▶ 2019. First Prize *Fiorini* University El Salvador, Buenos Aires, Argentina
- ▶ 2020. First Prize *Eduardo Charreau* in recognition of Scientific Excellence and Scientific Cooperation in Latin America, Spain and Portugal. Madrid (OEI, Iberoamerican States Organization, Interciencia, AAPC).
- ▶ 2021 Designated Member of the National Academy of Exact and Natural Sciences, Argentina
- ▶ 2021 Designated Member of the Organizing Committee of the International Congress of Immunology (IUIS; South Africa)
- ▶ 2021 Designated Honorary Member British Society of Immunology
- ▶ 2021 Designated Member of the Organizing Committee of the American Association of Cancer Research (AACR)
- ▶ 2021 Recognized among the 200 Outstanding People of the University of Buenos Aires (200 Years of UBA).
- ▶ 2021 Miguel Lillo Award, Society of Biology, Tucumán, Argentina
- ▶ 2021 First Prize LALCEC- Fiorini- on Cancer (Liga Argentina de Lucha contra el Cáncer) for the work of Cagnoni et al
- ▶ 2021 First Prize Farina de Raveglia in Cancer (Argentinean Society of Clinical Investigation) for the work of Blidner et al
- ▶ 2021 First Prize Cherny for the Best Multidisciplinary Work (Argentinean Society of Clinical Investigation) for the work of Perrotta et al

- ▶ 2021 First Prize Bioinformatics (Argentinean Society of Clinical Investigation) for the work of Merlo et al
- ▶ 2021 Distinguished by the Senate of the Nation (Argentina) for the studies of Cagnoni et al, (PNAS 2021) and Morosi et al (Science Adv 2021)
- ▶ 2022 Elected Associate Member at **EMBO** (European Molecular Biology Organization) (Heidelberg, Germany 2022)
- ▶ 2022 **Karl Meyer Lectureship Award** (Society for Glycobiology) (USA)
- ▶ 2022 **Doctor Honoris Causa Universidad Nacional de La Plata** (La Plata) (Argentina)
- ▶ 2022 **Doctor Honoris Causa Universidad Nacional de La República** (Montevideo) (Uruguay)
- ▶ 2022 First Prize Gador for the Best Multidisciplinary Work in Immuno-Oncology (Argentinean Society of Clinical Investigation) for the work of Bannoud et al
- ▶ 2022 First Prize "**Eugenia Sacerdote de Lustig**" for the Work "Technologies applied for the COVID-19 Pandemia" for the COVID-T plataform (Argentinean Society of Clinical Investigation) for the work of Manselle Cocco et al
- ▶ 2022 Distinguished among 2% Top highly cited researchers in the world (Ranking Stanford University)
- ▶ 2022 **Life Time Achievement Award** (50° Anniversary, Argentinean Society of Immunology)
- ▶ 2023 **Konex Awards (Honor Diploma).**

## 7. EDITORIAL RESPONSIBILITIES AND AD-HOC REVIEWER

- ▶ Associate Editor *Emerging Infectious Diseases* (2002-2017)
- ▶ Associate Editor *Journal of Immunotherapy of Cancer* (2016-present)
- ▶ Associate Editor *Science Advances* (Science Magazine ([www.sciencemag.org](http://www.sciencemag.org))) (2019- present)
- ▶ Section Editor *Journal of Leukocyte Biology* (2020-2022)
- ▶ Associate Editor *Journal of Leukocyte Biology* (2022-present)
- ▶ Handling Editor for *PNAS* (2016-present)
- ▶ Guest Editor Special Issue "Glycans in Vascular Biology" in *Glycobiology* (2014)
- ▶ Guest Editor Special Issue "Lectins in Angiogenesis" in *Glycobiology* (2015)
- ▶ Guest Editor Special Issue *Annals NY Acad Sci* "Glycobiology of Immune Responses" (2010)
- ▶ Guest Editor Special Issue *Cytokines Growth Factor Rev* "Cytokines coming of age in South America" (2006)
- ▶ Guest Editor Special Issue "Glycans in Immunity" *Seminars in Immunology* " (In preparation)
- ▶ Member of the Editorial Board of *Glycobiology* (2011-2015, renewed 2016-2020)
- ▶ Member of the Editorial Board of *Cancer Immunology Research* (2013-present)
- ▶ Member of the Editorial Board of *Oncoimmunology* (2011-present)
- ▶ Member of the Editorial Board of *Cancer Immunology and Immunotherapy* (2011-present)
- ▶ Member of the Editorial Board of *Celll Death and Differentiation* (2006-2018)
- ▶ Member of the Editorial Board of *Cell Death and Disease* (2018-present)
- ▶ Member of the Editorial Board of *Scientific Reports* (2014-present)
- ▶ Member of the Editorial Board of *Immunotherapy Advances* (2020-present)
- ▶ Member of the Editorial Board of *Immunology & Cell Biology* (2009-2016)
- ▶ Member of the Editorial Board of *Oncotarget* (2015-2018)
- ▶ Member of the Editorial Board of *European Journal of Inflammation* (2003-2007)
- ▶ Member of the Editorial Board of *Clinical Translational Oncology* (2018-present)

► Ad-hoc reviewer for *Nature*, *Science*, *Cell*, *Cancer Cell*, *Nat Med*, *Sci Transl Med*, *Glycoconj J*, *Sci Adv*, *Sci Adv*, *Nat Commun*, *Nat Biomed Engineer*, *Nat Immunol*, *Immunity*, *PNAS*, *Trends Glycosci Glycotechnol*, *Cell Rep*, *Blood*, *J Exp Med*, *EMBO J*, *Oncoimmunology*, *J Immunol*, *Glycobiology*, *Cancer Res*, *Clin Cancer Res*, *J Biol Chem*, *FASEB J*, *EMBO J*, *EMBO Rep*, *J Clin Invest*, *Blood*, *J Natl Cancer Inst*, *Front Immunol*, *Front Microbiol*, *Oncogene*, *Neoplasia*, *Plos Pathogens*, *Cell Death Differ*, *Nat Rev Cancer*, *Trends Immunol*, *Trends Mol Med*, *Dev Comp Immunol*, *BBA*, *Cancer Immunol Immunother*, *J Immunother Cancer*, *Cancer Immunol Res*, *Cell Immunol*, *Curr Opin Immunol*, *Trends Biotechnol*, *Sci Signal*, *Stem Cells*, *J Leukoc Biol*, *Mol Cell Biol*, *Arthritis Rheumatol*, *Exp Cell Res*, *Mol Immunol*, *Biochem J*, *Ann NY Acad Sci*, *Am J Pathol*, *Br J Pharmacol*, *Mol Pharmacol*, *Glia*, *Scand J Rheumatol*, *Biochimie*, *Immunol Cell Biol*, *Tissue Antigens*, *J Cell Mol Med*, *Bioorg Med Chem*, *Prot Exp Purif*, *Ann Rheum Dis*, *Mol Cancer*, *Mol Cancer Ther*, *J Immunother*, *Clin Exp Immunol*, *J Cell Physiol*, *J Clin Immunol*, *J Pathol*, *Cancer Immunol Immunother*, *Plos Neg Trop Dis*, *Tissue Barr*, *Sci Rep*, *Front Pharmacol*, *Angiogenesis*, *Nat Rev Urol.*, *Front Microbiol*, *J Extracell Ves* (among others)

## 8. LIST OF PUBLICATIONS (Total: 312)

Please find below: a) a list of selected publications (8.1), b) a complete list of original peer-reviewed publications (8.2); and c) a list of peer-reviewed invited publications (8.3)

**Total citations** (Google Scholar, 39289, h=92; June 2023)

### 8.1. SELECTED ARTICLES (25 out of 315) in chronological order

► 1. Recombinant galectin-1 and its genetic delivery suppress collagen-induced arthritis via T-cell apoptosis. Gabriel A. Rabinovich, Gordon Daily, Hanna Dreja, Hitakshi Tailor, Clelia Riera, Jun Hirabayashi, Yuti Chernajovsky.

*J Exp Med* (1999) 190: 385-398.

*Highlighted in Nature* (August 1999) (<https://www.nature.com/articles/news990812-4>)

► 2. Targeted inhibition of galectin-1 gene expression in tumor cells results in heightened T-cell-mediated rejection: a potential mechanism of tumor-immune privilege

Natalia Rubinstein, Mariano Alvarez, Norberto Zwirner, Marta Toscano, Juan M. Ilarregui, Alicia Bravo, José Mordoh, Leonardo Fainboim, Osvaldo Podhajcer, Gabriel Rabinovich

*Cancer Cell* (2004) 5: 241-251

*Selected for the Cover of Cancer Cell "The sweet kiss of death: Galectin-1 and tumor escape"*

*Highlighted by Nature Rev Cancer* (2004) 4:328.

► 3. A pivotal role for galectin-1 in feto-maternal tolerance

Sandra M. Blois, Juan M. Ilarregui, Mareike Tometten, Mariana García, Arif Suphi Orsal, Rosalia Cordo-Russo, Marta A Toscano, Germán Bianco, Bori Handjiski, Irene Tirado, Udo R. Markert, Francoise Poirier, Julia Szekeres-Bartho, Petra C Arck\*, Gabriel Rabinovich\* (\* shared co-senior authorship)

*Nature Med* (2007) 13:1450-1457.

*-Highlighted as feature article in Nature*

*-Research Highlight in Nature Rev Immunol* (January 2008)

► 4. Differential glycosylation of Th1, Th2 and Th17 effector cells selectively regulates susceptibility to cell death

Marta A. Toscano, Germán A. Bianco, Juan M. Iñarregui, Diego Croci, Jorge Correale, Joseph Hernandez, Norberto W. Zwirner, Françoise Poirier, Eleanor Riley, Linda G. Baum, Gabriel A. Rabinovich

*Nature Immunol* (2007) 8: 825 - 834

-Highlighted as feature article in *Nature* (July 2007)

-Research Highlight in *Nature Rev Immunol* (July 2007)

-Highlighted in *Faculty of 1000 biology* (Must Read; Top 10 articles)

►5. Tolerogenic signals delivered by dendritic cells to T cells via a galectin-1-driven immunoregulatory circuit involving IL-27- and IL-10

Juan M. Iñarregui, Diego O. Croci, Germán A. Bianco, Marta Toscano, Mariana Salatino, Mónica Vermeulen, Jorge Geffner, Gabriel Rabinovich

*Nature Immunol* (2009) 10: 981 – 991.

-Highlighted in *1000 Faculty of Biology*

-Selected among *Top 10 Articles published in Nature Immunol*

►6. Galectin-1 deactivates classically-activated microglia and protects from inflammation-induced neurodegeneration

Sarah C. Starossom, Ivan D. Mascanfroni, Jaime Imitola, Li Cao, Khadir Raddassi, Silvia F. Hernandez, Ribal Bassil, Diego O. Croci, Juan P. Cerliani, Delphine Delacour, Yue Wang, Wassim Elyaman, Samia J. Khoury, Gabriel A. Rabinovich,

*Immunity* (2012) 37:249-263

-“Editor Choice” (*Science* 2012; 337:801)

- Feature Article in *Immunity* (Galectin-1 for neuroprotection.; *Immunity* (2012) 37:187-9.

-Highlighted in *F1000 Faculty of Biology as Must Read*.

►7. Disrupting galectin-1 interactions with N-glycans suppresses hypoxia-driven angiogenesis and tumorigenesis in Kaposi’s sarcoma

Diego O. Croci, Mariana Salatino, Natalia Rubinstein, Juan P. Cerliani, Lucas Cavallin, Howard J. Leung, Jing Ouyang, Juan M. Iñarregui, Marta A. Toscano, Carolina Domaica, María C. Croci, Enrique Mesri, Adriana Albini and Gabriel Rabinovich

*J Exp Med* (2012) 209: 1985-2000.

-Highlighted in the Cover of *JEM* “Gagging Gal-1 in Kaposi sarcoma”

►8. A unique galectin signature in human prostate cancer progression suggests galectin-1 as a key target for treatment of advanced disease

Diego Laderach, Lucas Gentilini, Laura Giribaldi, Victor Cardenas Delgado, Lorena Nugnes, Diego Croci, Nader Al Nakouzi, Paula Sacca, Jeff Kutok, Gabriel Casas, Osvaldo Mazza, Elba Vazquez, Anne Chauchereau, Scott Rodig, María T Elola, Daniel Compagno and Gabriel Rabinovich

*Cancer Res* (2013) 73:86-96.

-Highlighted in the Cover of *Cancer Research*.

-Highlighted with a Commentary in *Nature Rev Urol* 2012

►9. Targeting galectin-1 overcomes breast cancer associated immunosuppression and prevents metastatic disease

Tomás Dalotto Moreno , Diego O. Croci , Juan P. Cerliani , Verónica C. Martínez Allo , Sebastián Dergan-Dylon, Santiago P. Méndez Huergo , Juan Carlos Stupirski, Daniel Mazal , Eduardo Osinaga , Marta A. Toscano,. Victoria Sundblad, Mariana Saflatino\* Gabriel A. Rabinovich\* (\*co-seniors)  
*Cancer Res* (2013) 73: 1107–1117.

*Highlighted in the Cover of Cancer Res*

►10. Glycosylation-dependent lectin-receptor interactions preserve angiogenesis in anti-VEGFrefractory tumors

Diego O. Croci , Juan P. Cerliani, Tomas Dalotto Moreno, Santiago P. Méndez-Huergo, Iván Mascanfroni, L. Sebastian-Dergan Dylon, Marta Toscano, Julio J Caramelo, Juan J. Garcia-Vallejo, Jing Ouyang, Enrique Mesri, Melissa R. Junntila, Carlos Bais, Margaret A. Shipp, Mariana Salatino, Gabriel A. Rabinovich  
*Cell* ( 2014) 156: 744-758

*-Selected as the Cover of Cell (February 2014) "Escaping VEGF blockade"*

*-Highlighted as "Leading Edge" with a Preview: "Galectin-1 pulls the strings on VEGFR2" (Stanley P, Cell 2014; 156(4):625-626)*

*-Featured in Nature Medicine 20; 3:250 "Tumors fight back with a lectin"*

*-Feauterd in Cancer Discovery "Galectin-1 maintains angiogenesis in anti-VEGF refractory tumors"*

►11 Microbial driven TLR5-dependent signaling governs distal malignant progression through tumor-promoting inflammation

Melanie R. Rutkowski, Tom L. Stephen, Nikolaos Svoronos, Michael J. Allegrezza, ,Alfredo Perales-Puchalt, Ximena Escovar-Fadul, Amelia J. Tesone, Jenny Nguyen, Mark G. Cadungog, Rugang Zhang, Mariana Salatino, Julia Tchou, Gabriel A. Rabinovich, Jose R. Conejo-Garcia  
*Cancer Cell* (2015); 27: 27–40.

*-Highlighted as Feature Article in Cancer Cell (January 2015)*

*-Featured in "Common TLR5 Mutations Control Cancer Progression via galectins" (Cancer Cell 2015; 27:1-3)*

*-Highlighted in Cancer Discovery "Uncovering Microbes' Role in Tumor Progression"*

*--Highlighted in Nature Rev Cancer 15, 69 (2015)*

►12. *Trypanosoma cruzi* infection imparts a regulatory program in dendritic cells and T cells via galectin-1-dependent mechanisms

Carolina V. Poncini, Juan M. Ilarregui, Estela I. Batalla, Stefe Engels, Marcela A. Cucher, Juan Pablo Cerliani, Yvette van Kooyk, Stella M. González Cappa, Gabriel A. Rabinovich  
*J Immunol* (2015) 195:3311-24

►13. Regulation of eosinophilia and allergic airway inflammation by the glycan-binding protein galectin-1

Xiao Na Ge, Sung Gil Ha, Yana G. Greenberg, Amrita Rao, Idil Bastan, Ada G. Blidner, Savita P. Rao, and Gabriel A. Rabinovich\*. P. Sriramarao\* (\* shared senior authorship)

*Proc Natl Acad Sci USA* (2016) 113:E4837-46.

*-Highlighted in PNAS (Editorial: Eosinophils, galectins and a reason to breathe" (PNAS 2016; 113(33):9139-41) and featured in the cover*

►14 Glycosylation-dependent galectin-receptor interactions promote *Chlamydia trachomatis* infection

Agustín L. Luján, Diego O. Croci, Julián A. Gambarte Tudela, Antonella D. Losinno, Alejandro J. Cagnoni, Karina V. Mariño María T. Damiani and Gabriel A. Rabinovich

*Proc Natl Acad Sci USA* (2018) 115:E6000-E6009.

►15. Galectin-1-driven tolerogenic programs aggravate *Yersinia enterocolitica* infection by repressing antibacterial immunity

Roberto Davicino, Santiago Méndez Huergo, Javier R Elicabe, Juan C. Stupirski, Ingo Autenrieth, Silvia Di Genaro and Gabriel A. Rabinovich

*J Immunol* (2018) 199:1382-1392.

►16. Targeting galectin-1 inhibits pancreatic cancer progression by modulating tumor-stroma cross-talk

Carlos Alberto Orozco, Neus Martinez-Bosch, Pedro Enrique Guerrero, Judith Vinaixa, Tomás Dalotto-Moreno, Mar Iglesias, Mireia Moreno, Magdolna Djurec, Françoise Poirier, Hans-Joaquim Gubius, Martin Fernandez-Zapico, Rosa F. Hwang, Carmen Guerra, and Gabriel A. Rabinovich\*, Pilar Navarro\*,

(\*co-seniors co-corresponding authors)

*Proc Natl Acad Sci USA* (2018) 115:E3769-E3778.

►17. IRE1 $\alpha$ -XBP1 signaling promotes T cell metabolic dysfunction in ovarian cancer by limiting glutamine influx

Minkyung Song, Tito A. Sandoval, Chang-Suk Chae, Sahil Chopra, Melanie R. Rutkowski, Mahesh Raundhal, Ricardo A. Chaurio, Kyle K. Payne, Csaba Konrad, Sarah E. Bettigole, Hee Rae Shin, Michael J. Crowley, Juan P. Cerliani, Andrew V. Kossenkov, Ievgen Motorykin, Sheng Zhang, Giovanni Manfredi, Dmitriy Zamarin, Kevin Holcomb, Paulo C. Rodriguez, Gabriel A. Rabinovich, Jose R. Conejo-Garcia, Laurie H. Glimcher and Juan R. Cubillos-Ruiz

*Nature* (2018) 562:423-428.

*-Highlighted by Cell Metabolism*

►18. Targeting TMEM176b enhances antitumor immunity and augments the efficacy of immune checkpoint blockers by unleashing inflammasome activation.

Mercedes Segovia , Sofia Russo, Mathias Jeldres, Yamil Mahmoud, Valentina Perez, Maite Duhalde, Pierre Charnet, Mathieu Rousset, Bernard Vanhove, Rodrigo Andrés Floto, Ignacio Anegón, Maria Cristina Cuturi, M. Romina Girotti\*, Gabriel A. Rabinovich\* Marcelo Hill\*, (\*co-senior authors)

*Cancer Cell* (2019) 35: 767-781.E6

*Highlighted by a Commentary in Cancer Discovery*

►19. Suppression of age-related salivary gland autoimmunity by glycosylation-dependent galectin-1-driven immune inhibitory circuits

Verónica C. Martínez Allo, Vanesa Hauk\*, Nicolás Sarbia\*, Nicolás A. Pinto, Diego O. Croci, Tomás Dalotto Moreno, M. Rosa Morales, Sabrina Gatto, Montana N. Manselle Cocco, Juan C. Stupirski, Ángel Deladoey, Priscila Marcaida, Virginia Durigan, Anastasia Secco, Marta Mamani, Alicia Dos Santos, Antonio Catalán Pellet, Claudia Pérez Leiros, Marta A. Toscano\*, Gabriel A. Rabinovich\* , (\*co-seniors).

*Proc Natl Acad Sci USA* (2020) 117:6630-6639.

►20. Intracellular immune sensing promotes inflammation via gasdermin D-driven release of a lectin alarmin.

Ashley J Russo, Swathy O Vasudevan, Santiago P Méndez-Huergo, Puja Kumari, Antoine Menoret, Shivalee Duduskar, Chengliang Wang, Juan M Pérez Sáez, Margaret M Fettis, Chuan Li, Renjie Liu, Arun Wanchoo, Karthik Chandiran, Jianbin Ruan, Sivapriya Kailasan Vanaja, Michael Bauer, Christoph Sponholz, Gregory A Hudalla, Anthony T Vella, Beiyan Zhou, Sachin D Deshmukh, Gabriel A Rabinovich, Vijay A Rathinam

*Nature Immunol.* (2021) 22:154-165. doi: 10.1038/s41590-020-00844-7.



►21. Control of intestinal inflammation by glycosylation-dependent lectin-driven immunoregulatory circuits  
Luciano G. Morosi, Anabela M. Cutine, Alejandro J. Cagnoni, Montana N. Manselle-Cocco, Diego O. Croci, Joaquín P. Merlo, Rosa M. Morales, María May, Juan M. Pérez-Sáez, María R. Girotti, Santiago P. Méndez-Huergo, Betiana Pucci, Aníbal H. Gil, Sergio P. Hornos, Guillermo H. Docena, Alicia M. Sambuelli, Marta A. Toscano, Karina V. Mariño\*, Gabriel A. Rabinovich\* (\*co-senior authors)  
*Science Adv* (2021) 7(25):eabf8630. doi: 10.1126/sciadv.abf8630.

►22. Galectin-1 fosters an immunosuppressive microenvironment in colorectal cancer by reprogramming CD8<sup>+</sup> regulatory T cells  
Alejandro J. Cagnoni, M. Laura Giribaldi, Ada G. Blidner, Anabela M. Cutine, Sabrina Gatto, Rosa Morales, Mariana Salatino, Martín C. Abba, Diego O. Croci, Karina V. Mariño\*, Gabriel A. Rabinovich\*  
*Proc Natl Acad Sci U S A.* (2021) 118(21):e2102950118. doi: 10.1073/pnas.2102950118.

►23. Galectin-1 prevents pathological vascular remodeling in atherosclerosis and abdominal aortic aneurysm.  
Raquel Roldán-Montero, Juan M Pérez-Sáez, Isabel Cerro-Pardo, Jorge Oller, Diego Martinez-Lopez, Estefania Nuñez, Sebastian M Maller, Carmen Gutierrez-Muñoz, Nerea Mendez-Barbero, Joan C Escola-Gil, Jean-Baptiste Michel, Maria Mittelbrunn, Jesús Vázquez, Luis M Blanco-Colio, Gabriel A Rabinovich\*, Jose L Martin-Ventura\* (\*GAR and JLM are co-seniors)  
*Science Adv.* (2022)18;8(11):eabm7322. doi: 10.1126/sciadv.abm7322.

►24. Targeting galectin-driven regulatory circuits in cancer and fibrosis  
Karina V. Mariño, Alejandro Cagnoni, Diego O. Croci and Gabriel A. Rabinovich  
*Nature Reviews Drug Discovery*, (2023) Feb 9. doi: 10.1038/s41573-023-00636-2  
*Selected as Cover of the Issue*

►25. Circulating galectin-1 delineates response to bevacizumab in melanoma patients and reprograms endothelial cell biology  
Nadia Bannoud\*, Juan C. Stupirski\*, Alejandro J. Cagnoni\*, Pablo F. Hockl, Juan M. Pérez Saez, Pablo A. Garcia, Yamil D. Mahmoud, Julián Gambarte Tudela, Marco Scheidegger, Andrea Marshall, Pippa G. Corrie, Mark R. Middleton, Karina V. Mariño, M. Romina Girotti, Diego O. Croci and Gabriel A. Rabinovich  
*Proc Natl Acad Sci USA* (2023) 120(3):e2214350120. doi: 10.1073/pnas.2214350120.

## 8.2. COMPLETE LIST OF ORIGINAL PEER-REVIEWED PUBLICATIONS (TOTAL: 312)

(<https://pubmed.ncbi.nlm.nih.gov/?term=rabinovich+g&sort=date>).

**METRICS** Google Scholar February 2023: (Citations: 39285; h=92)

►1. Regulated expression of a 16-kd galectin-like protein in activated macrophages.  
Gabriel A. Rabinovich, Leonardo Castagna, Carlos Landa, Clelia M. Riera, Claudia Sotomayor.  
*J Leukoc Biol* (1996) 59:363-369.

►2. Specific inhibition of lymphocyte proliferation and induction of apoptosis by CLL-I, a  $\beta$ -galactoside-binding lectin  
Gabriel A. Rabinovich, Nidia Modesti, Leonardo Castagna, Carlos Landa, Clelia Riera, Claudia Sotomayor.  
*J Biochem* (1997) 122, 365-373.

*Journal of Biochemistry award given annually to the best paper published in the journal.*

►3. Activated macrophages produce a galectin-1-like protein that induces apoptosis of T cells: Biochemical and functional characterization.

Gabriel A. Rabinovich, Maria M. Iglesias, Nidia M. Modesti, Leonardo F. Castagna, Carlota Wolfenstein-Todel, Clelia M. Riera, Claudia E. Sotomayor.

*J Immunol* (1998) 160, 4831-4840.

►4. Purification of galectin-3 from ovine placenta: Developmentally regulated expression and immunological relevance.

Mercedes Iglesias, Gabriel A. Rabinovich, Andrea Ambrosio, Leonardo Castagna, Claudia Sotomayor, Carlota Wolfenstein-Todel.

*Glycobiology* (1998) 8, 59-65.

►5. Galectin-1 from ovine placenta. Complete primary structure, physicochemical properties and implications in T-cell death.

M. Mercedes Iglesias, Gabriel A. Rabinovich, Valeria Ivanovic, Claudia Sotomayor, Carlota Wolfenstein-Todel.

*Eur J Biochem* (1998), 252, 400-407.

►6. Lectin-induced immunoregulation in ovine placenta

Gabriel A. Rabinovich\*, M. Mercedes Iglesias\*, Andrea Ambrosio, Claudia Sotomayor, Carlota Wolfenstein-Todel *Lectins: Biology, Biochemistry, Clinical Biochemistry*, 1998, 12 (Van Driessche, Beeckmans and Bog-Hansen, eds), Hellerup, Denmark. Electronic **Lectin J** Acceso: <http://plab.ku.dk/tcbh/Lectins12> (\*equal contribution)

►7. Interaction of human tissue plasminogen activator (t-PA) with Pregnancy zone protein: A comparative study with t-PA-  $\alpha$ 2-macroglobulin interaction.

María C Sánchez, Gustavo Chiabrando, Hugo Guglielmone, Gustavo Bonacci, Gabriel A. Rabinovich, Miguel A. Vides.

*J Biochem* (1998) 124: 274-279.

►8. Granulocyte-macrophage colony stimulating factor protects dendritic cells from liposome-encapsulated dichloromethylene diphosphonate-induced apoptosis by a Bcl-2-mediated pathway.

Gabriel A. Rabinovich, Clelia M. Riera, Pablo Iribarren.

*Eur J Immunol* (1999) 29:563-570.

►9. Recombinant galectin-1 and its genetic delivery suppress collagen-induced arthritis via T-cell apoptosis.

Gabriel A. Rabinovich, Gordon Daily, Hanna Dreja, Hitakshi Tailor, Clelia Riera, Jun Hirabayashi, Yuti Chernajovsky.

*J Exp Med* (1999) 190: 385-398.

*Highlighted by an Editorial in Nature (August 1999)*

►10. Specific inhibition of T-cell adhesion to extracellular matrix and pro-inflammatory cytokine secretion by human recombinant galectin-1.

Gabriel A. Rabinovich, Amiram Ariel, Rami Hershkowitz, Jun Hirabayashi, Ken Ichi Kasai, Ofer Lider.

*Immunology* (1999). 97:100-106.

- ▶11. Immunocytochemical study of the distribution of a 16-kDa galectin in the chicken retina.  
Cristina Maldonado, Leonardo Castagna, Gabriel Rabinovich, Carlos Landa.  
*Invest Ophthalmol Vis Sci* (1999) 40: 2971-2977.
- ▶12. Galectin-1, an alternative signal for T-cell death, is increased in activated macrophages.  
Gabriel Rabinovich, Clelia Riera, Claudia Sotomayor  
*Br J Med Biol Res* (1999) 32: 557-567.
- ▶13. Prostate cancer induction in autoimmune rats and modulation of T-cell apoptosis  
Mónica Gilardoni, Gabriel Rabinovich, Mabel Oviedo, Mirtha Depiante-Depaoli  
*J Exp Clin Cancer Res* (1999) 18: 493-504.
- ▶14. Galectins: an evolutionarily conserved family of animal lectins with multifunctional properties: a trip from the gene to clinical therapy  
Gabriel A. Rabinovich.  
*Cell Death Differ* (1999) 6:711-721.
- ▶15. Galectins: a key intersection between glycobiology and immunology  
Gabriel Rabinovich, Clelia Riera, Carlos Landa y Claudia Sotomayor  
*Br J Med Biol Res* (1999) 32:383-393  
*Article invited for the Award received "Young Talented Scientist in Latin America"*
- ▶16. Immunotherapy of autoimmune diseases by gene transfer  
Yuti Chernajovsky, David Gould, Alex Annenkov, Hanna Dreja, Gordon Daly, Gabriel Rabinovich, L. Croxford, David Baker, Mariana Berenstein, Osvaldo Podhajcer  
*Biochem Soc Transact* (1999) 27: 869-873
- ▶17. Evidence of a role for galectin-1 in acute inflammation  
Gabriel Rabinovich, Claudia Sotomayor, Clelia Riera, Ismael Bianco, Silvia Correa  
*Eur J Immunol* (2000) 30: 1331-1339.
- ▶18. Molecular mechanisms implicated in galectin-1-induced apoptosis: activation of the AP-1 transcription factor and downregulation of Bcl-2  
Gabriel Rabinovich, Claudio Alonso, Claudia Sotomayor, Sandra Durand, José L. Bocco, Clelia Riera.  
*Cell Death Differ* (2000) 7: 747-753.
- ▶19. Galectin-1 induces central and peripheral cell-death: implications in T-cell physiopathology.  
Claudia Sotomayor, Gabriel Rabinovich  
*Dev Immunol* (2000) 7:117-129.
- ▶20. Apoptosis as a target for gene therapy in rheumatoid arthritis  
Gabriel Rabinovich  
*Mem Inst Oswaldo Cruz* (2000) 95: 225-233.
- ▶21. Activation-induced expression of CD1d antigen on mature T cells

María C. Salamone, Gabriel A. Rabinovich, Ana K. Mendiguren, Gabriela V. Salamone, Leonardo Fainboim  
*J Leukoc Biol* (2001) 69, 207-215.

►22. Anti-galectin-1 autoantibodies in *Trypanosoma cruzi* infection: differential expression of this  $\beta$ -galactoside-binding protein in cardiac Chagas' disease.

Laura Giordanengo, Susana Gea, Gustavo Barbieri, Gabriel Rabinovich  
*Clin Exp Immunol* (2001) 124: 9-21.

►23. Expression of galectin-1 and -3 correlates with defective mononuclear cell apoptosis in patients with juvenile rheumatoid arthritis.

Miroslav Hajarcek, Diaz Cano D, De Miguel M, Wolfe H, Cristina Maldonado, Gabriel Rabinovich  
*J Rheumatol* (2001) 28:1914-1922.

►24. Regulated expression and effect of galectin-1 on trypanosoma cruzi-infected macrophages: Modulation of microbicidal activity and survival

Elina Zúñiga, Adriana Gruppi, Jun Hirabayashi, Ken I Kasai, Gabriel Rabinovich  
*Infect Immun* (2001);69:6589-6598.

►25. Regulated expression of galectin-1 during B cell activation and implications for T-cell apoptosis

Elina Zúñiga, Gabriel Rabinovich, Mercedes Iglesias, Adriana Gruppi.  
*J Leukoc Biol* (2001) 70:70-73

►26. The anti-metastatic effect of a single low dose of cyclophosphamide involves modulation of galectin-1 and Bcl-2 expression

Gabriel Rabinovich, Natalia Rubinstein, Pablo Matar, Viviana Rozados, Silvia Gervasoni, Graciela Scharovsky  
*Cancer Immunol Immunother* (2002) 50: 587-603.

►27. Induction of allogeneic T-cell hyporesponsiveness by galectin-1-mediated apoptotic and non-apoptotic mechanisms

Gabriel Rabinovich, Rosanna Ramhorst, Natalia Rubinstein, Adriana Corigliano, Cecilia Daroqui, Elisa Bal de Kier, Leonardo Fainboim  
*Cell Death Differ* (2002) 9:661-670.

►28. Activation-induced expression of MICA on T-lymphocytes involves engagement of CD3 and CD28

Luciana L Molinero, Mercedes Fuertes, Gabriel Rabinovich, Leonardo Fainboim, Norberto W. Zwirner.  
*J Leukoc Biol* (2002) 71: 791-797.

►29. Bone-specific antibodies in sera from patients with celiac disease: Characterization and implications in osteoporosis

Emilia Sugai, Alejandra Chernaavsky, Silvia Pedreira, Edgardo Smecuol, Horacio Vasquez, Sonia Niveloni, Roberto Mazure, Eduardo Mauriño, Gabriel Rabinovich, Julio C. Bai.  
*J Clin Immunol* (2002) 22: 353-362.

►30. Galectin and their ligands: amplifiers, silencers, or tuners of the inflammatory response?

Gabriel Rabinovich, Linda G. Baum, Nicola Tinari, Roberto Paganelli, Clara Natoli, Fu-Tong Liu, Stefano Iacobelli

*Trends Immunol* (2002) 23: 313-320.

►31. Role of galectins in inflammatory and immunomodulatory processes

Gabriel Rabinovich, Natalia Rubinstein & Marta Toscano

*Biochem Biophys Acta General Subjects* (2002) 1572; 273-283.

►32. Unlocking the secrets of galectins: a challenge at the frontier of glyco-immunology

Gabriel Rabinovich, Natalia Rubinstein, Leonardo Fainboim

*J Leukoc Biol* (2002): 71: 741-752.

►33. Galectins: a family of proteins involved in the regulation of the immune response. Implications in immunopathological processes.

Gabriel Rabinovich and Natalia Rubinstein

*Medicina* (2002) 61: 85-92.

►34. Regulated expression and ultrastructural localization of galectin-1, a pro-apoptotic beta-galactoside-binding lectin, during spermatogenesis in rat testis

Luis Dettin, Natalia Rubinstein, Agustín Aoki, Cristina Maldonado\*, Gabriel Rabinovich\* (co-senior)

*Biol Rep* (2003) 68:51-59.

►35. Galectin-1 suppresses experimental colitis in mice

Luca Santucci, Stefano Fiorucci, Natalia Rubinstein, Andrea Mencarelli, Barbara Palazetti, Barbara Federici, Gabriel Rabinovich\*, and Antonio Morelli

*Gastroenterology* (2003)124:1381-1394.

►36. Opposite effects of galectin-1 on alternative metabolic pathways of L-arginine in resident, inflammatory and activated macrophages

Silvia G. Correa, Claudia E. Sotomayor, María P. Aoki, Cristina Maldonado, Gabriel Rabinovich

*Glycobiology* (2003) 13 : 119-128.

►37. Upregulated expression of MICA on activated T lymphocytes involves Lck and Fyn kinases and signaling through MEK1/ERK, p38 MAP kinase and calcineurin

Luciana L Molinero, Mercedes Fuertes, Leonardo Fainboim, Gabriel Rabinovich, Norberto W. Zwirner.

*J Leukoc Biol* (2003) 73:815-822.

►38. Characterization and functional significance of glucocorticoid receptors in patients with major depression: modulation by antidepressant treatment

Gastón Calfa, Silvia Kademian, Danilo Ceschin, Gustavo Vega, Gabriel Rabinovich, Marta Volosín.

*Psychoneuroendocrinology* (2003) 28: 687-701.

►39. Targeted inhibition of galectin-1 gene expression in tumor cells results in heightened T-cell-mediated rejection: a potential mechanism of tumor-immune privilege

Natalia Rubinstein, Mariano Alvarez, Norberto Zwirner, Marta Toscano, Juan M. Ilarregui, Alicia Bravo, José Mordoh, Leonardo Fainboim, Osvaldo Podhajcer, Gabriel Rabinovich

*Cancer Cell* (2004) 5: 241-251

Selected for the Cover of *Cancer Cell* "The sweet kiss of death: Galectin-1 and tumor escape"

Featured in *Nature Rev Cancer* (2004) 4:328.

▶40. Galectin-3 mediates interleukin-4-induced survival and differentiation of B cells: functional cross-talk and implications during *Trypanosoma cruzi* infection

Eva V Acosta-Rodríguez, Carolina L Montes, Claudia C Motrán; Elina I Zuniga; Fu-Tong Liu, Gabriel A. Rabinovich, Adriana Gruppi

*J Immunol* (2004) 172: 493-502

▶41. Identification of RANTES as a novel immunomodulator of the maternal allogeneic response

Rosanna Ramhorst, Verónica García, Adriana Corigliano, Gabriel Rabinovich, Leonardo Fainboim

*Clin Immunol* (2004) 110; 71-80

▶42 Differential role of galectins in the initiation, amplification and resolution of the inflammatory response

Natalia Rubinstein, Juan M. Iñarregui, Marta Toscano, Gabriel Rabinovich

*Tissue Antigens* (2004) 64:1-12.

▶43 NF- $\kappa$ B regulates expression of the MHC class I-related chain A (MICA) gene in activated T lymphocytes

Luciana Molinero, Mercedes Fuertes, Victoria Girart, Leonardo Fainboim, Gabriel Rabinovich, Mónica Costas, Norberto Zwirner

*J Immunol* (2004) 173 5583-5590

▶44. Regulated expression of galectin-1 during T-cell activation involves Lck and Fyn kinases and signaling through MEK1/ERK, p38 MAP kinase and p70S6 kinase.

Mercedes B. Fuertes, Luciana Molinero, Marta Toscano, Juan M. Iñarregui, Natalia Rubinstein, Leonardo Fainboim, Norberto Zwirner, Gabriel Rabinovich

*Mol Cell Biochem* (2004) 267: 177-185.

▶45. Shedding light on the immunomodulatory properties of galectins: novel regulators of innate and adaptive immune responses

Gabriel A. Rabinovich, Marta Toscano, Juan M. Iñarregui, Natalia Rubinstein

*Glycoconj J* (2004) 19: 565-573

▶46. Galectins as modulators of tumour progression

Fu-Tong Liu and Gabriel A. Rabinovich

*Nature Rev Cancer* (2005) 5:29-41.

▶47. Galectin-1 as a potential cancer target

Gabriel A. Rabinovich

*Br J Cancer* (2005) 92:1188-1192.

▶48. The sweet kiss of death: a link between galectin-1, glycosylation and the generation of immune privilege

Natalia Rubinstein, Marta A. Toscano, Juan M. Iñarregui, Germán Bianco, Gabriel Rabinovich,

*Trends Glycosci Glycotechnol* (2005) 96: 133-143.

▶49. Galectins as immunoregulators during infectious processes: From microbial invasion to the resolution of the disease

Gabriel A. Rabinovich and Adriana Gruppi

*Parasite Immunol* (2005) 27:103-114.

►50. The coming of age of galectins as immunomodulatory agents: Impact of these carbohydrate-binding proteins in T-cell physiology and chronic inflammatory disorders

Juan M. Illarregui, Germán Bianco, Marta A. Toscano, Gabriel A. Rabinovich

*Ann Rheum Dis* (2005) 64: 96-103.

►51. Galectin-1 sensitizes resting human T lymphocytes to Fas (CD95)-mediated cell death via mitochondrial hyperpolarization, budding and fission

Paola Matarrese, Antonella Tinari, Elisabetta Mormone, Germán Bianco, Marta Toscano, Gabriel Rabinovich\*  
Walter Malorni\* (\*co-seniors)

*J Biol Chem* (2005) 280:6969-6985.

►52. Galectin-3 and soluble fibrinogen act in concert to modulate neutrophil activation and survival: involvement of alternative MAPK pathways

Gabriela C. Fernández; Juan M. Illarregui, Carolina Rubel; Marta Toscano, Sonia Gómez, Macarena Beiger, Martín A. Isturiz, Gabriel A. Rabinovich\* & Marina S. Palermo.

*Glycobiology* (2005) 15: 519-527.

►53. Administration of a peptide inhibitor of  $\alpha 4$  integrin inhibits the development of experimental autoimmune uveitis

Andrea P. Martín, Luciana V. De Moraes, Carlos E. Tadokoro, Alessandra G. Commodaro, Enrique Urrets-Zavalía, Gabriel A. Rabinovich, Julio Urrets-Zavalía, Luis V Rizzo, Horacio M. Serra.

*Invest Ophthalmol Vis Sci* (2005) 46: 2056-2063.

►54. Synthetic lactulose amines: Novel class of anticancer agents that induce tumor-cell apoptosis and inhibit galectin-mediated homotypic cell aggregation and endothelial cell morphogenesis

Gabriel Rabinovich, Albana Cumashi, Germán A. Bianco, Domenico Ciavardelli, Ida Iurisci, Maurizia D'Egidio, Enza Piccolo, Nicola Tinari, Nikolay Nifantiev, and Stefano Iacobelli

*Glycobiology* (2006) 16: 210-220

►55. Overexpression of inducible nitric oxide synthase and cyclooxygenase- 2 in rat Zn-deficient lung: involvement of a NF- $\kappa$ B-dependent pathway

Nidia N. Gomez, Roberto C. Davicino, Veronica S. Biaggio, German A. Bianco, Silvina M. Alvarez, Patricia Fischer Lucas Masnatta, Gabriel A. Rabinovich, and María S. Gimenez

*Nitric oxide* (2006) 14; 30-38

►56. Regulated expression of galectin-1 after in vitro productive infection with herpes simplex virus type I: implications for T cell apoptosis

María I. Gonzalez, Natalia Rubinstein, Juan M. Illarregui , Marta Toscano, Norberto Sanjuan, Gabriel Rabinovich

*Int J Immunopathol Pharmacol* (2005) 18:615-623.

►57. Circulating anti-galectin-1 autoantibodies are associated with the severity of ocular disease in autoimmune and infectious uveitis

Marta Romero, Juan.C. Muiño, Germán A. Bianco, Mercedes Ferrero, Claudio P. Juarez, José D. Luna and Gabriel Rabinovich

*Invest Ophthalmol Vis Sci* (2006) 47: 1550-1556.

►58. Galectin-1 suppresses autoimmune retinal inflammation by promoting concomitant T helper-2- and T regulatory--mediated anti-inflammatory responses

Marta A. Toscano, Alessandra Commadoro, Juan Ilarregui, Germán Bianco, Ana Liberman, Horacio M. Serra, Jun Hirabayashi, Luis V. Rizzo, Gabriel Rabinovich,

*J Immunol* (2006) 176: 6323-6332.

►59. Impact of protein-glycan interactions in the regulation of autoimmune and chronic inflammatory disorders

Germán Bianco, Juan M. Ilarregui, Marta A. Toscano, Gabriel Rabinovich,

*Autoimmun Rev* (2006) 5:349-356.

►60. How do protein-glycan interactions regulate T-cell physiology?

Marta Toscano, Juan M. Ilarregui, Germán Bianco, Natalia Rubinstein, & Gabriel Rabinovich

*Medicina* (2006);66:357-362.

►61. From immune surveillance to immune escape: story of an enemy with multiple counterattack strategies

Graciela Scharovsky, Pablo Matar, Mariano Zacarías, María J. Rico, and Gabriel A. Rabinovich

*Inmunología* (2006) 25:101-114.

►62. Role of galectins in chronic inflammatory microenvironments

Greg Parsonage, Emily Trebilcolck, Marta Toscano, Germán Bianco, Juan Ilarregui, Christopher Buckley, Gabriel Rabinovich

*Future Rheumatol* (2006) 1: 441-454.

►63. Immunosuppressive strategies that are mediated by tumor cells

Gabriel A. Rabinovich, Dmitry Gabrilovich, Eduardo Sotomayor

*Annu Rev Immunol* (2007) 25: 267-96.

►64. Low doses cyclophosphamide modulates expression and function of galectin-1 in an experimental lymphoma model

Mariano Zacarías, María J. Rico, Silvia I. Gervasoni, Juan M. Ilarregui, Marta Toscano, Gabriel Rabinovich, Graciela Scharovsky.

*Cancer Immunol Immunother* (2007) 56:237-48.

►65. Transforming growth factor- $\beta$ 1 regulates galectin-1 expression in metastatic mammary adenocarcinoma: Implications for tumor-immune escape.

M. Cecilia Daroqui, Juan M. Ilarregui, Natalia Rubinstein, Mariana Salatino, Marta Toscano, Paula Vazquez, Lidia Puricelli, Elisa Bal de Kier-Joffe, Gabriel Rabinovich,

*Cancer Immunol Immunother* (2007) 56:491-499.

►66. A novel function for galectin-1 at the crossroad of innate and adaptive immunity: Galectin-1 regulates monocyte/ macrophage physiology through a non-apoptotic ERK1/3-dependent pathway



Paula Barrionuevo, Macarena Beiger-Bompadre, Juan M Ilarregui, Marta Toscano, Germán Bianco, Martín Isturiz, Gabriel Rabinovich  
*J Immunol* (2007) 178: 436-445

▶67. Altered expression of galectin-3 induces cortical thymocyte depletion and premature exit of immature thymocytes during *Trypanosoma cruzi* infection

Elizangela Silva-Monteiro, Luciana Reis-Lorenzato, Oscar Kenji-Nihei, Mara Junqueira, Gabriel A. Rabinovich, Dan Hsu, Fu-Tong Liu, Wilson Savino, Roger Chammas, Dea M. Serra Villa-Verde  
*Am J Pathol* (2007): 170:546-556.

▶68. Comparative study of the antiinflammatory, anticoagulant and antiangiogenic activities of selected fucoidans isolated from brown seaweeds

Albana Cumashi, Natalia A. Ushakova, Marina E. Preobrazhenskaya, Armida D'Incecco, Antonio Piccoli, Licia Totani, Nicola Tinari, Galina E. Morozevich, Albert E. Berman, Maria I. Bilan, Anatolii I. Usov, Nadezhda E. Ustuzhanina, Craig J. Sanderson, Maeve Kelly, Gabriel Rabinovich, Stefano Iacobelli, and Nikolay E. Nifantiev  
*Glycobiology* (2007) 17:541-52.

▶69. Galectin-1 expression in human glioma cells: modulation by ionizing radiation and effects on tumor cell proliferation and migration

Herwig M. Strik, Katharina Schmidt, Paul Lingor, Lars Tonges, Wilfried Kugler, Mirko Nitsche, Gabriel A. Rabinovich, Mathias Bähr  
*Oncol Rep* (2007) 18:483-488.

▶70. Galectins: matricellular glycan-binding proteins linking cell adhesion, migration and survival

Maria T. Elola, Carlota W. Todel, Gerardo Vasta, Gabriel Rabinovich  
*Cell Mol Life Sci* (2007) 64:1670-700.

▶71. Differential glycosylation of TH1, TH2 and TH17 effector cells selectively regulates susceptibility to cell death

Marta A. Toscano, Germán A. Bianco, Juan M. Ilarregui, Diego Croci, Jorge Correale, Joseph Hernandez, Norberto W. Zwirner, Françoise Poirier, Eleanor Riley, Linda G. Baum, Gabriel A. Rabinovich  
*Nature Immunol* (2007) 8: 825 - 834

*-Highlighted as feature article in Nature (July 2007)*

*-Research Highlight in Nature Rev Immunol (July 2007)*

*-Highlighted in Faculty of 1000 biology (Must Read; Top 10 articles)*

*-Article of the Month and Top 10 Nature Immunol (August 2007)*

▶72. The AP1-dependent secretion of galectin-1 by Reed-Sternberg cells fosters immune privilege in classical Hodgkin lymphoma

Przemyslaw Juszczynski, Jing Ouyang, Jeffery Kutok, Stefano Monti, Wen Chen, Paola Dal Cin, Jeremy Abramson, Kunihiko Takeyama, Todd Golub, Jon Aster, Gabriel Rabinovich, Margaret Shipp  
*Proc Natl Acad Sci USA*. (2007) 104: 13134-13139

▶73. A pivotal role for galectin-1 in feto-maternal tolerance

Sandra M. Blois, Juan M. Ilarregui, Mareike Tometten, Mariana García, Arif Suphi Orsal, Rosalia Cordo-Russo, Marta A Toscano, Germán Bianco, Bori Handjiski, Irene Tirado, Udo R. Markert, Françoise Poirier, Julia Szekeres-Bartho, Petra C Arck\*, Gabriel Rabinovich\* (\*co-seniors)  
(ultima autoría compartida)

*Nature Med* (2007) 13:1450-1457.

*-Highlighted as feature article Nature*

*-Research Highlight Nature Rev Immunol (January 2008)*

►74. Dissecting the pathophysiologic role of endogenous lectins: glycan-binding proteins with cytokine-like activity?

Marta A. Toscano, Juan M. Ilarregui, Germán Bianco, Diego Croci Russo, Leonardo Campagna, , Mariana Salatino, Gabriel Rabinovich,

*Cytokines Growth Factors Rev* (2007) 18: 57-71

►75. Cytokines coming of age in South America

Gabriel Rabinovich

*Cytokines Growth Factors Rev* (2007) 18: 1-3.

►76. Tolerance signaling molecules and pregnancy: IDO, galectins and the renaissance of regulatory T cells

P. Terness, A. Mellor, G. Chaouat, G. Rabinovich, A. Betz, S. Saito, D. Clarck

*Am J Reprod Immunol* (2007) 58:238-54

►77. Dynamic cross-talk between tumors and immune cells in orchestrating the immunosuppressive network at the tumor microenvironment

Diego Croci, Mariano Zacarías Fluck, María J. Rico, Pablo Matar, Gabriel A. Rabinovich, Graciela Scharovsky

*Cancer Immunology & Immunotherapy* (2007) 56:1687-700

►78. An emerging role for galectins in tuning the immune response: lessons from experimental models of inflammatory disease, autoimmunity and cancer

Gabriel A. Rabinovich, Fu-Tong Liu, Mitusomi Hirashima, Ana Anderson

*Scand J Immunol* (2007) 66: 143-158

►79. Neuro-endocrine-immune disequilibrium and endometriosis: an interdisciplinary approach

Nadja Tariverdian Theoharis C. Theoharides, Friederike Siedentopf, Gabriela Gutiérrez, Udo Jeschke, Gabriel A. Rabinovich, Sandra M. Blois, Petra C. Arck

*Sem Immunopathol* (2007) 29: 193-210

►80. Functions of cell surface galectin-carbohydrate lattices

Gabriel Rabinovich, Marta Toscano, Shawn Jackson, Gerardo Vasta

*Curr Opin Struct Biol* (2007) 17:513-520

►81. The immunoregulatory glycan-binding protein galectin-1 triggers human platelet activation.

Natalia Pacienza, Roberto G Pozner , Germán A. Bianco, ,Lina Paola D'Atri, Diego O. Croci, Soledad Negrotto, Elisa Malaver, Ricardo M. Gómez, Mirta Schattner\* Gabriel A. Rabinovich\* (\*co-seniors)

*FASEB J* (2008) 22: 1113-1123

*-Highlighted in F1000 biology*

- 82. Control of dendritic cell maturation and function by triiodothyronine (T3)  
Iván Mascanfroni, S. Susperreguy, Juan M. Ilarregui, Susana Montesinos, Laura Cervi, Ana Repiso, Hector Targovnik, Gabriel Rabinovich, Claudia Pellizas  
*FASEB J* (2008) 22:1032-1042
- 83. Apoptosis resistance in HIV-1 persistently-infected cells is independent of active viral replication and involves modulation of the apoptotic mitochondrial pathway  
Pablo Nicolás Fernández Larrosa, Diego Croci, Diego Riva, Mariel Bibini, Renata Luzzi, Mónica Saracco, Susana Mersich, Gabriel A. Rabinovich, Liliana Martínez Peralta.  
*Retrovirology* (2008), 5:19.
- 84. AP-1-dependent galectin-1 expression delineates classical Hodgkin and anaplastic large cell lymphomas from other tumors with shared molecular features.  
Scott J. Rodig, Jing Ouyang, Przemyslaw Juszczynski, Treeve Currie, Kenneth Law, Donna S. Neuberg, Gabriel A. Rabinovich, Margaret A. Shipp and Jeffery L. Kutok  
*Clin Cancer Res* (2008) 14: 3338-3344.
- 85. Intracellular retention of MICA in melanomas prevents recognition by NK cells: novel tumor immune escape mechanism  
Mercedes B Fuertes, Luciana L Molinero, María V Girart, Carolina Domaica, Marcela Barrio, José Mordoh, Gabriel A Rabinovich and Norberto W Zwirner  
*J Immunol* 2008; 180:4606-4614.
- 86. Silencing survivin gene expression inhibits proliferation and promotes apoptosis of breast cancer cells by a caspase-independent pathway  
Diego O. Croci, Ingrid S. Cogno, Natalia B. Rumie Vittar, Edgardo Salvatierra, Osvaldo L. Podhajcer, , Eduardo Osinaga, Viviana A. Rivarola\*, Gabriel Rabinovich\*  
*J Cell Biochem* (2008) 105: 2:381-390.
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Vanina A. Alamino, Iván D. Mascanfroni, María M. Montesinos, Nicolás Gigena, Ada G. Blidner, Ana C. Donadio, Sonia I. Milotich, Sheue Y. Cheng, Ana M. Masini-Repiso, Gabriel A. Rabinovich, Claudia G. Pellizas  
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Alejandro Cagnoni, Juan M. Pérez-Saez, Gabriel Rabinovich\*, Karina Mariño\* (\*co-senior)  
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Karina V. Mariño, Ada G. Blidner and Gabriel A. Rabinovich

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**Gabriel A. Rabinovich**

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Salomé S. Pinho, Inês Alves, Joana Gaifem, **Gabriel A. Rabinovich**

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## 9. BOOKS PUBLISHED

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25. ▶ Role of galectins in platelet activation. MA Romaniuk, M Schattner and G Rabinovich. In "*Platelet physiology*" Editorial Académica Española (2016). ISBN 978-3-8417-6878-0.
- 26 ▶Immunoglycobiology: an overview. J. Iñarregui, A Blidner and G Rabinovich. In: "*Glycoscience: Biology and Medicine*" N Taniguchi, T Endo, G Hart (1st. Ed) (2016) Springer, ISBN 978-4-431-54840-9.
27. ▶Glycans and Lectins in Cancer Immunotherapy. P Berraondo, G Rabinovich, I. Melero, In: "*Internal Medicine*" Farrera Rozman (18th Ed) (2019) Elsevier, ISBN 978-8-480863490.
28. ▶COVID-19: a view at the interface of chemistry, glycobiology and immunology G.A. Rabinovich, L. Laporte y N. Sbarbati Nudelman. Edited by the Academy of Exact and Natural Sciences, Buenos Aires, Argentina. 2020.
29. ▶Glycans and Lectins in Cancer Immunotherapy. P Berraondo, G Rabinovich, I. Melero, In: "*Internal Medicine*" Farrera Rozman (18th Ed) (2022) Elsevier, ISBN 978-8-480863490.
30. ▶L-Type lectins. Cummings RD, Etzler ME, Ramya NC, Kato K, Rabinovich GA, Surolia A. 2022. In: Varki A, Cummings RD, Esko JD, Stanley P, Hart GW, Aebi M, Darvill AG, Kinoshita T, Packer NH, Prestegard JH, Schnaar RL, Seeberger PH, editors. *Essentials of Glycobiology* 3rd edition. Cold Spring Harbor (NY): Cold Spring Harbor Laboratory Press; Chapter 32. 2022
- 31▶Galectins. Cummings RD, Liu FT, Rabinovich GA, Stowell S, Vasta GR. 2022. In: Varki A, Cummings RD, Esko JD, Stanley P, Hart GW, Aebi M, Darvill AG, Kinoshita T, Packer NH, Prestegard JH, Schnaar RL,

Seeberger PH, editors. *Essentials of Glycobiology* 3rd edition. Cold Spring Harbor (NY): Cold Spring Harbor Laboratory Press;. Chapter 36. 2022

### 32►. Inmunoterapia del cáncer

Pedro Berraondo, Gabriel A. Rabinovich, Ignacio Melero

En: "Medicina Interna" En prensa

Farrera Rozman (Eds.) 2023, Editorial Elsevier, España (2023).

## 10. PATENTS AND TECHNOLOGY TRANSFER

### 1►. "Use of galectin-1 to treat inflammatory and autoimmune diseases" (No. 9906396.8)

UK Patent Office. March 1999. Kennedy Institute of Rheumatology. Inventors: G. Rabinovich, G. Daly, H. Dreja, Y. Chernajovsky

### 2►. "A composition, vector and method used for antitumor therapy using galectin-1 inhibitors"

Argentinean Patent Office. November 2002. Inventors: G. Rabinovich, N. Rubinstein, O. Podhajcer, L. Fainboim, J. Mordoh, M. Alvarez (Nº P00226/fma (INPI).

### 3►. "Methods of preparing a therapeutic formulation comprising galectin-induced tolerogenic dendritic cells"

USA Patent Office (June 2007). Inventors: G. Rabinovich, M. Toscano, J. Ilarregui, G. Bianco  
Inventores: G. Rabinovich, M. Toscano, J.M. Ilarregui, G.A. Bianco (Patent Application Nº 12/137.004)  
Nº US20090004259 A1, January 2009.

### 4►. "Compositions, kits, and methods for the modulation of immune responses using galectin-1".

Inventors: G. Rabinovich, M. Shipp, P. Juzszczynski, J. Kutok, S. Rodig, Y. Ouyang  
Patent Granted US NºUS9206427 B2 (July 2009).

### 5► "Galectin-1 protects the heart and prevents cardiac remodeling, dysfunction and failure". Inventors: A.

Abbate, I. Seropian, B. van Tassel, S. Toldo, G.A. Rabinovich  
Patent application to the US Patent Office: Nº 61/285,220 (November 2009).

### 6►. Compositions, kits and methods for the diagnosis, prognosis, monitoring, treatment and modulation of

post-transplant lymphoproliferative disorders and hypoxia- associated angiogenesis disorders using galectin-1. Inventors: G. Rabinovich, M. Shipp, D. Croci, S. Rodig, J. Kutok, J. Ouyang  
Patent Granted USA US8968740 B2 (Priority Date November 13<sup>th</sup>, 2009) USSN 61/261,125; USSN 61/283,159; USSN 61/335,779. International Application Nº PCT/US10/056547

### 7► Methods for inhibiting cancers refractory to anti-VEGF therapy.

Inventors: G Rabinovich, D Croci, JP Cerliani, M Salatino, JM Perez Saez, P Hockl

US Patent Application Nº 61/909,942; Definitive USA WO/2015/081290 A1

Patent Granted (October 2019). Presentation Date: November 2014.

Granted EEUU US10294295 (B2) 26/11/2014

Granted EUROPA EP3074037 (B1) 26/11/2014

Granted ALEMANIA EP3074037 (B1) -DE 26/11/2014

Granted FRANCIA EP3074037 (B1) -FR 26/11/2014

Granted GRAN BRETAÑA EP3074037 (B1) -GB 26/11/2014

*Granted EEUU US11020478 (B2) - continuación 26/11/2014*

8► Gal-1 variants having immuno-modulating properties, and methods using the same

Inventors: G Rabinovich, S Di Lella, D Estrin, J Caramelo, S Mendez Huergo

Patent Granted USA, Canada, Europe, PCT

U.S. Patent Application N° 62/150, 750; Presentación PCT: PCT/US2016/028604

Priority Date: April 22, 2015; Definitive Patent submitted (April 22, 2016).

*Granted AR 20160101105 21/04/2015*

*Granted EEUU US15/567,390 21/04/2015*

*Granted EUROPE EP16783840.8 21/04/2015*

*Granted ALEMANIA EP16783840.8-DE 21/04/2015*

*Granted FRANCIA EP16783840.8-FR 21/04/2015*

*Granted GRAN BRETAÑA EP16783840.8-GB 21/04/2015*

*Granted AUSTRALIA AU201625273721/04/2015*

*Granted BRASIL BR 11 2017 022715-0 21/04/2015*

*Granted CANADA CA2,999,843 21/04/2015*

9► Therapeutic modulation of skin immune system with Gal-7 or its variants

Inventors: G. Rabinovich, J.P. Cerliani, N.A. Pinto

62/404,300 (October 5th, 2016)

*Granted EEUU US10,456,447 B2 05/10/2016*

*Granted EEUU US16/416,996 (continuación) 20/05/2019*

10► Galectin-1 delivery for therapeutic control of intestinal inflammation

Inventors: GA Rabinovich, KV Mariño, LG Morosi, C Magni, M Toscano

*Definitive Patent Application (Provisional P5078US00) .*

*Bacterial Deposit 2021 (1140)*

11► Method to evaluate antigen-specific T cell responses against SARS-CoV-2 in a subject

Inventors: Gabriel Adrián Rabinovich, Montana Manselle Cocco, Florencia Veigas, Ada Blidner, Nicolás Torres, Tomás Dalotto Moreno, Pablo Hockl, Alejandro Cagnoni

*Patent Presented by CONICET Provisional PS3186AR00. (August 2021).*

## 11. INNOVATION, TECHNOLOGY PLATFORMS AND START UP CREATION

1► Co-founder and Scientific Leader of **GALTEC LIFE®** (Galectin Technology Life), a translational StartUp New-Company aimed at performing translational pre-clinical and clinical studies of galectin-based products (including 4 anti-galectin-1 monoclonal antibodies as immunotherapeutics and anti-angiogenic agents, 3 galectin-1 variants for treatment of T-cell mediated autoimmune diseases, 1 galectin variants for treatment of skin inflammation and 1 galectin-containing probiotics for treatment of intestinal inflammation) and to prepare them for Phase I-II clinical trials. Patents licensed (Resolution Number: CONICET 2022-04718065-APN-GVT-CONICET).

2►. Co-founder of the Glycomics Platform at the Institute of Biology and Experimental Medicine. An analytical platform service to analyze glycans at the protein/lipid, cell/tissue and organismal levels (2015).

3► Creation of COVID-T: a functional platform to assess SARS-CoV-2-specific T cell responses in vaccinated individuals and COVID-19 convalescent patients. This integrated technology gave us the possibility to advice the Argentinean Government on policies related to vaccination during the COVID-19 pandemics (2020-2021).

►. Creation of the single cell RNA sequencing platform at the Institute of Biology and Experimental Medicine. (2022).

## 12. GRANT SUPPORT AS PRINCIPAL INVESTIGATOR

► University of Buenos Aires 2001-2017 "Glycosylation-driven circuits in tumor-immune escape"

► Wellcome Trust, International Research Development Award (London; UK 2002-2005). "Galectin-glycan interactions in parasite infection"

► Sales Foundation-CONICET Program, 2001-present "Galectin-glycan interactions in health and disease"

► Ministry of Science and Technology. Agency for Science, Technology and Innovation, Argentina (PICT 2003)

► The Mizutani Foundation for Glycoscience (Tokyo; Japan 2005). "Galectins in tumor-immune escape"

► Ministry of Health of Argentina. Carrillo-Oñativia Grant (2005; 2008). "Targeting lectin-driven programs in metastasis"

► Ministry of Science, Technology. Agency for Science, Technology and Innovation (PICT 2006)

► Cancer Research Institute Investigator Award Program (NY, USA 2006-2010). "Glycosylation-dependent lectin-driven programs in tumor-immune escape and immunotherapy"

► Prostate Cancer Foundation (Prostate Action UK) (London, UK, 2009-2012).

► Ministry of Science and Technology. Agency for Science, Technology and Innovation (PICT V 2010), Argentina. Special grant for internationally recognized scientists

► Full Research Grant National Multiple Sclerosis Society (USA) (2011-2014). "Capitalizing on glycomics for the treatment of autoimmune demyelinating diseases"

► The Mizutani Foundation for Glycoscience (Tokyo; Japan 2011). "Cross-talk between galectins, C-type lectins and siglecs in the regulation of inflammation"

► Ministry of Science and Technology. Agency for Science, Technology and Innovation, Ministry of Science and Technology Argentina (PICT 2012)

► Ministry of Science and Technology. Agency for Science, Technology and Innovation, Argentina (PICT V 2014). Special grant for internationally recognized scientists.

► The Broad Foundation for Intestinal Inflammatory Diseases (USA) (2014-2016). "Glycosylation-dependent programs in autoimmune intestinal inflammation"

► Fundación Bunge y Born Program. 2014- present ("Galectins and glycans: Therapeutic targets in host-pathogen interactions"

► The Kenneth Rainin Foundation Pilot Award USA (2015-2017). "Galectin-glycan interactions in intestinal inflammation"

► Ministry of Science and Technology to Internationally Recognized Scientists (Buenos Aires) (2015-2019). "Glyco-nanotechnology: glycan-based delivery for cancer treatment"

► Ministry of Science and Technology. Agency for Science, Technology and Innovation "Galectin-glycan interactions in resistance to cancer immunotherapy" (PICT 2017).



- ▶ The Kenneth Rainin Foundation Breakthrough Award USA (2017-2019). "Galectin-glycan interactions in intestinal inflammation"
- ▶ NIH/NCI U54, International Network in AIDS malignancies (US-Argentina) (2017-2022).
- ▶ Richard Lounsbery Foundation (NY, USA) (2019-2020). "Targeting glycan-dependent mechanisms to enhance antitumor immune responses"
- ▶ National Agency for Science, Technology and Innovation together with Bunge & Born Foundation (Argentina) (2020-2022). "Novel therapeutic strategies for the treatment of COVID-19" PI: Gabriel Rabinovich.
- ▶ Richard Lounsbery Foundation (NY, USA) (2020-2021). "Galectins and glycans in neuroinflammation"
- ▶ Williams Foundation (Argentina) (2021). "Glycans in COVID-19 infection"
- ▶ National Agency for Science, Technology and Innovation (for internationally renowned scientists) (2022-2026). "Targeting glycosylation-dependent circuits to improve the clinical efficacy of CAR T cells" ..
- ▶ Richard Lounsbery Foundation (NY, USA) (2022-2024). "Galectin-glycan interactions in SARS-CoV-2 infection"

## 13. MENTORING

### 13.1 PhD STUDENTS SUPERVISED (TOTAL: 30; 23 finished; 7 in course)

- ▶ 1. Gastón Calfa (2000-2006). Outstanding. National University of Cordoba. \*Currently Director Laboratory of Molecular Pharmacology and Adjunct Professor, Faculty of Chemical Sciences, National University of Córdoba, Argentina). Co-supervised
- ▶ 2. Natalia Rubinstein (2001-2006). Outstanding. University of Buenos Aires. \*Currently Director Laboratory of Molecular Oncology, Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina).
- ▶ 3. Marta Toscano (2003-2008) Outstanding. FCEyN. University of Buenos Aires.  
\*Currently Head Laboratory of Glycoimmunology; Hospital Carriño Oñativia, Salta, Argentina.
- ▶ 4. Juan M. Ilarregui (2003-2009) Outstanding, FCEyN- University of Buenos Aires.  
\*Currently Research Associate at VU University, Amsterdam, The Netherlands.
- ▶ 5. Mariano Zacarías Fluck (2004-2010) Outstanding .Faculty of Medicine, National University of Rosario.  
\*Currently Associate Researcher at Vall D'Hebron Institut D'Oncologia, Barcelona, Spain.
- ▶ 6. Iván Mascanfroni (2006-2010) Outstanding, Faculty of Chemical Sciences, National University of Córdoba.  
\*Currently Research Investigator at Abbvie, Boston; USA.
- ▶ 7. Germán A. Bianco (2006-2012) Outstanding, FFyB- University of Buenos Aires.  
\*Currently Clinical Researcher at Laboratory Australab, Pilar, Buenos Aires.
- ▶ 8. Diego O. Croci (2006-2011) Outstanding. FCEyN- University of Buenos Aires.  
\*Currently Associate Professor at University of Cuyo and Head Laboratory of Glycobiology, IHEM, Mendoza, Argentina.
- ▶ 9. Javier R. Elicabe (2008.2012) Outstanding, Faculty of Biological Sciences, National University of San Luis.  
\*Currently Associate Researcher at the Faculty of Biological Sciences, National University of San Luis.
- ▶ 10. Carlos J.M. Guardia (2009-2014) Outstanding, FCEyN- University of Buenos Aires  
\*Currently Associate Researcher Neurosciences and Cellular and Structural Biology Division, Eunice Kennedy Shriver National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD, USA.
- ▶ 11. Sebastián Dergan Dylon (2009-2015) Outstanding, FCEyN- University of Buenos Aires.  
\*Currently Research Associate at the Université Grenoble Alpes, France.
- ▶ 12. Eduardo Valli (2011-2015)- Outstanding, FCEyN- University of Buenos Aires.

\*Currently Research Associate at Tulane University, Louisiana, USA.

- 13. Santiago Méndez Huergo (2011-2016)- Outstanding, FCEyN-University of Buenos Aires.  
\*Currently Associate Researcher at IBYME; CONICET, Buenos Aires, Argentina.
- 14. Alejandro Benatar (2010-2014)- Outstanding- FFyB- University of Buenos Aires.  
\*Currently Research Assistant National Academy of Medicine, Buenos Aires and IBYME, Argentina.
- 15. Laura Giribaldi (2010-2017)- Outstanding FCEyN- University of Buenos Aires.  
\*Currently Research Director at Amgen, Buenos Aires Branch, Argentina.
- 16. Luciano Morosi (2013-2018).Outstanding FCEyN- University of Buenos Aires.  
\*Currently Post-doctoral Fellow, ICGEB, Trieste, Italy.
- 17. Nicolás Pinto (2014- 2019)- Outstanding FCEyN- University of Buenos Aires.  
\*Currently Post-doctoral Fellow, Garrahan Hospital for Children, Buenos Aires, Argentina.
- 18. Sebastián Maller (2014-2020)-Outstanding FCEyN- University of Buenos Aires.  
\*Currently Post-doctoral Fellow, IBYME; CONICET.
- 19. Julia Rubione (2014-2019)-Outstanding School of Medicine, University of Buenos Aires.  
\*Currently Post-doctoral Fellow, Hospital Universitario Austral, Pilar, Buenos Aires.
- 20. Agustín Lujan (2015-2020)-Outstanding School of Medicine PROBIOL, University of Cuyo, Mendoza.  
\*Currently Post-doctoral Fellow at Vall D'Hebron Institut D'Oncologia, Barcelona, Spain
- 21. Ramiro Perrotta (2016-2021). Outstanding. School of Exact and Natural Sciences, University of Buenos Aires. \*Currently Post-doctoral Fellow at Harvard Medical School, Boston, USA:
- 22. Inés Alves (2017-2022). University of Porto, Portugal. \*Currently Post-doctoral Fellow at the University of Porto, Portugal
- 23. Natalia Musco (2021-2022). Master in Sciences. University of Freiburg / University of Buenos Aires.

## ONGOING

- 24. Montana Manselle Cocco (2018-present). University of Buenos Aires
- 25. Lorena Laporte (2019-present). University of Buenos Aires.
- 26. Jessica Pressa (2020-present). University of Buenos Aires.
- 27. Camila Bach (2020-present). University of Buenos Aires.
- 28. Marco Scheidegger (2021-present). University of Buenos Aires.
- 29. María Elena Migueles (2021-present) National University of Córdoba.

## 13.2 MENTORING OF POST-DOCTORAL FELLOWS

- 1. Mariana Salatino (2006-2007). \*Currently Independent Researcher at IBYME, CONICET; Head Laboratory Glycobiology of Breast Cancer.
- 2. Victoria Sundblad (2007-2009). \*Currently Assistant Researcher at IBYME, CONICET
- 3. Marta Toscano (2008-2010). \*Currently Associate Researcher at Hospital Carillo Oñativia, Salta; Head Laboratory of Glycoimmunology.
- 4. Diego Laderach (2008-2010). \*Currently Independent Researcher at the Faculty of Exact and Natural Sciences, University of Buenos Aires. Head Laboratory of Functional Glycomics.
- 5. Santiago Di Lella (2009-2010). \*Currently Associate Researcher at the Faculty of Exact and Natural Sciences, University of Buenos Aires. Head Laboratory Glycobiophysics
- 6. Juan M. Ilarregui (2009-2011). \*Currently Associate Researcher at VU University, Amsterdam.
- 7. Juan P. Cerliani (2010-2012). \*Currently Associate Researcher Argentina.
- 8. Carolina Domaica (2010-2012). \*Currently Associate Researcher IBYME, CONICET.

- 9. Iván Mascanfroni (2010-2012). \*Currently Research Associate at Abbvie, Boston, USA.
- 10. Carolina Poncini (2011-2013). \*Currently Associate Researcher Faculty of Medicine, University of Buenos Aires. Head Laboratory Glycobiology of Protozoan Infections.
- 11. Diego Croci Russo (2011-2013). \*Currently Associate Researcher at Institute of Histology and Embriology (IHEM) Mendoza and Adjunct Professor of Glycobiology at University of Cuyo, Mendoza, Head Laboratory of Immunopathology and Glycobiology.
- 12. Natalia Leiva (2012-2014). \*Currently Assistant Researcher University of Cuyo, Mendoza, Argentina.
- 13. Ricardo J. Elicabe (2013-2015). \*Currently Associate Researcher National University of San Luis, Argentina. Head Laboratory Glycobiology of Bacterial Infections.
- 14. Ada Blidner (2013-2017). \*Currently Associate Researcher at IBYME, CONICET. Head Glyco-Immuno-Oncology Group
- 15. Mariana Weigel Muñoz (2013-2015). \*Currently Associate Resercher at IBYME, CONICET
- 16. Magali Ridano (2015-2019). \*\*Currently Associate Researcher at CEPROCOR (Technology Transfer)
- 17. Santiago Méndez Huergo (2016-2020). \*Currently Associate Resarcher at IBYME, CONICET (in license).
- 18. Tomás Dalotto Moreno (2017-2020). \*Currently Associate Researcher at IBYME, CONICET
- 19. Luciano Morosi (2018-2020). \*Currently Post-doctoral Fellow ICGEB, Trieste Italy.
- 20. Guillermo V. Richardson (2017-2019) \*Currently Associate Researcher at FLENI, Buenos Aires
- 21. Sandra Carvallo (2017-2022). \*Currently Research Associate at Univ. of Porto, Porto
- 22. Nicolás Torres (2018-2021). \*\*Currently Research Associate IBYME- CONICET
- 23. Nadia Bannoud (2018-2022)\* Currently Research Associate IHEM, CONICET
- 24. Anabela Cutine (2021-present)

### 13.3. SUPERVISION OF RESEARCH ASSOCIATES (TOTAL: 22)

- 1. Dr Mariana Salatino
- 2. Dr. Diego Laderach
- 3. Dr. Victoria Sundblad
- 4. Dr. Cecilia Muglia
- 5. Dr. Marta Toscano
- 6. Dr. Roberto Davicino
- 7. Dr. Santiago Di Lella
- 8. Dr. Juan Pablo Cerliani
- 9. Dr. Karina Mariño
- 10. Dr. Diego Croci
- 11. Dr. Ramiro Quinta
- 12. Dr. Carolina Poncini
- 13. Dr. Ricardo J Elicabe
- 14. Dr. Romina Girotti
- 15. Dr. Victoria Bocanegra
- 16. Dr. Carolina Domaica
- 17. Dr. Juan M. Pérez Sáez
- 18. Dr. Alejandro Cagnoni
- 19. Dr. Ada Blidner
- 20. Dr. Santiago Méndez Huergo
- 21. Dr. Guillermo V. Richardson
- 22. Dr. Nicolás Torres

➤23. Dr. Federico Baudau

#### 13.4. SUPERVISION OF TECHNICIANS AND LAB MANAGERS

- 1. Marcos Barboza (Principal Technician CONICET). Lab Technician Flow Cytometry (2007- 2018)
- 2. Pablo Hockl (Principal Technician CONICET). Project Manager Lab Immunopathology (2014- present)
- 3. Juan C. Stupirski (Adjunct Technician CONICET). Laboratory Manager (2009-present)
- 4. Claudia Leishman (Assistant Technician). Laboratory Manager (2011-2013)
- 5. Claudia Gatto (Assistant Technician). Animal House Manager (2007-2012)
- 6. Rosa María Morales (Principal Technician CONICET). Animal House Manager (2013-present)
- 7. Sabrina G. Gatto (Principal Technician CONICET). Animal House Manager (2014-present)
- 8. Alejandro Benatar (Adjunct Technician CONICET). COVID-T Platform (2022-present)
- 9. Amalia Botto (Lab Manager CONICET). (2022-present)

#### 14. INVITED LECTURES (REPRESENTATIVE OF A TOTAL OF 440) in retrospective order

##### 2023

- Invited Lecture "Glycomics of Cancer" American Association of Cancer Research (AACR; USA)
- Plenary Lecture Symposium on Immuno-Oncology "Defence is the Best Attack; Beyond Immune Checkpoints" European Association of Cancer Research (EACR) (Barcelona, España)
- Special Lecture, Porto Cancer Meeting (Porto, Portugal)
- Distinguished CWRU Pathology/ Immunology Seminars Case University (Case Western, USA)
- Special Seminar Series Glycosciences European Community, UK
- Special Seminar Epigenetics Department, Cancer Silvester Center, University of Miami, USA
- Lecture Doctor Honoris Causa Universidad Nacional de La Plata, Buenos Aires, Argentina
- Lecture Doctor Honoris Causa Universidad de la República, Montevideo, Uruguay
- Meeting of Academics, Academia Nacional de Ciencias Exactas, Físicas y Naturales y Academia Nacional de Ciencias, Buenos Aires, 2023

##### 2022

- Invited Keynote Speaker Meeting of the International Society of Carbohydrate Research
- Invited Speaker Metastasis Research Society (New York, USA)
- Invited Chair. Symposium on Glycobiology. Argentinean Society of Clinical Investigation
- Invited Distinguished Seminar Series, Case University (USA) (Dr. Brian Cobb)
- Invited Keynote Speaker Closing Lecture, NVVi The Dutch Society of Immunology,
- Invited Translational Immunology Conferences, VU University, Amsterdam, The Netherlands
- Invited Distinguished Speaker Biomedical Seminars, CNIC Madrid, Spain
- Invited Special Seminar Series, IRB (Institute Research In Biomedicine, Barcelona, Spain)
- Karl Meyer Lecture Lectureship Award, Society of Glycobiology (Amelia Island, Florida, USA)
- EMBO Lecture Membership, EMBO Meeting (Heidelberg, Germany)
- Translational Meeting, Immunotherapy 2022 (Buenos Aires, Argentina)- Director of the Symposium
- 50th Anniversary Lecture Award Argentinean Society of Immunology 2022
- 40th Anniversary IFISE- Rosario CONICET Keynote Lecture 2022

##### 2021

- Invited Speaker "FOCIS go South" . Federation of Clinical Immunology Societies (Chile, Virtual)

- Invited Plenary Speaker Jenner Meeting- Translational Glycobiology- Belgium (Europe)
- Induction Conference Argentinean Academy of Exact and Natural Sciences (Buenos Aires, Argentina)
- Latin American Congress of Glycobiology, Organizer (Mexico, virtual)
- Invited Speaker Felsenstein Medical Center. Tel Aviv University, Sackler School of Medicine (Israel, Virtual)
- Invited Speaker European Congress of Immunology (Virtual)
- Invited Speaker Megalabs (Montevideo, Uruguay, Virtual)
- Invited Speaker Plenary Conference Metastasis Research Society (USA, Virtual)
- Invited Speaker Symposium of Glycobiology, Society of Biochemistry and Molecular Biology (Argentina)
- Closing Lecture, Argentinean Society of Physiology (Argentina)
- Miguel Illio Distinguished Lecture, Society of Biology (Tucumán, Argentina)
- Lecture COVID-T , a platform for monitoring T cell responses in SARS-CoV-2-vaccinated patients (Ministry of Health (Argentina)
- Closing Lecture Translational Medicine Meeting (Institute of Translational Medicine, Córdoba, Argentina)

## 2020

- Invited Speaker, Plenary HHMI Howard Hughes Medical Institute, Janelia Research, Science Across the Globe (USA 2020)
- Invited Speaker, Joint Meeting American Association of Cancer Research (AACR) and European Association of Cancer Research (EACR) Tumor Microenvironment (Lisbon, Portugal) 2020
- Invited Speaker, Plenary Lecture Society of Leukocyte Biology (virtual, USA, 2020)
- Invited Speaker, Seminar Vall D'Hebron Cancer Center (Barcelona, Spain 2020)
- Invited Speaker, Global ImmunoTalks Virtual (USA 2020; Organizers: Elina Zúñiga, Carla Rothlin)
- Invited Speaker, University of Tel Aviv Virtual, Glycobiology of COVID-19, 2020
- Invited Speaker Distinguished Seminar OHSU Knight Cancer Institute and Department of Cell and Cancer Biology (Portland, USA).

## 2019

- Invited Speaker, Gordon Conference in Glycobiology, Lucca (Italy) 2019
- Invited Speaker, Max Plank for Biophysics and Colloids, Berlin (Germany) 2019
- Invited Speaker, Mount Sinai Hospital, New York (USA) 2019
- Invited Speaker, Albert Einstein School of Medicine, New York (USA) 2019
- Invited Speaker, University of Navarra, Bristoll Meyer Squib Master Ceremony, Madrid (Spain) 2019
- Invited Speaker, CIMA (Centro de Medicina Aplicada; University of Navarra) Pamplona (Spain) 2019
- Invited Speaker, CENIO (Centro Nacional de Investigaciones Oncológicas) Madrid (Spain) 2019
- Invited Speaker, Institut Pasteur Montevideo (Uruguay) 2019
- Plenary Lecture *Doctor Honoris Causa* University of Mar del Plata, Mar del Plata (Argentina) 2019.
- Plenary Lecture National Institute of Technology Buenos Aires, Argentina 2019
- Plenary Lecture Interamerican Oncology Conferences, Buenos Aires, Argentina 2019.
- Plenary Lecture Argentinean Association of Clinical Oncology, Rosario, Argentina 2019.
- Invited Speaker Symposium Neuro-Oncology, Institute FLENI, Buenos Aires, Argentina 2019.

## 2018

- Invited Speaker Opening Plenary Lecture, Latin American Society of Immunology, Cancun (Mexico) 2018
- Invited Speaker American Association of Cancer Research (AACR) CNS Malignancies, San Diego (USA) 2018
- Invited Keynote Speaker and Organizer, American Assoc Cancer Research AACR, San Paulo 2018

- Invited Speaker "Distinguished Lecturer Series" Silvester Cancer Center, University of Miami, USA 2018
- Invited Speaker Joint Seminar Series Dept of Physical Sciences and Dept of Organic Chemistry, Faculty of Exact and Natural Sciences, University of Buenos Aires 2018.
- Plenary Lecture, National University of Rio Cuarto, Argentina 2018
- Plenary Lecture 1<sup>st</sup> Meeting of Universities of Latin America CRES, Córdoba, Argentina 2018
- Plenary Lecture Innovation Day. Tel Aviv University. Award to Innovation of the Year. 2018
- Opening Conference Argentinean Society of Clinical Oncology. Buenos Aires, Argentina 2018.
- Plenary Lecture "Glycans and galectins as emerging biomarkers", Clinical Biochemistry Society, 2018.
- Opening Lecture "Innovation and Society", AMGEN Laboratories, Buenos Aires, Argentina 2018.
- Plenary Lecture, School of Medical Sciences, National University of La Plata, Argentina 2018.
- Plenary Lecture *Doctor Honoris Causa* Award given by the National University of San Luis, Argentina 2018
- Invited Speaker Congress of Clinical Oncology, Córdoba, Argentina 2018.
- Chair of the Symposium "Science and Journalism". Joint Meeting Society of Clinical Investigation and Society of Immunology, Mar del Plata, Argentina 2018.
- Plenary Lecture 60<sup>th</sup> Anniversary LALCEC (Association of Cancer Research), Rosario, Argentina 2018.

## 2017

- Invited Speaker Jenner Glycomedicine, Dubrovnik Croacia, 2017
- Invited Speaker Cell Biology and Genetics Symposia, Pontificia Academia Vaticano, Italy, 2017
- Invited Speaker Cell Press Symposium Cancer, Immunity and Inflammation, San Diego; USA 2017
- Induction Lecture, National Academy of Science, Washington DC, USA, 2017
- Invited Speaker in Global Master Immunology, Lima and Arequipa, Perú 2017.
- Plenary Lecture Government House, Award Juan B. Bustos, Córdoba, Argentina 2017
- Invited Speaker Glycobiology of Skin Diseases. Society of Dermatology and Novartis, Buenos Aires 2017
- Invited Speaker Seminar Series Institute Balseiro, Bariloche, Argentina 2017.
- Invited Speaker Seminar Series Hospital Carlos Bonorino Udaondo, Buenos Aires, Argentina 2017
- Plenary Lecture Interamerican Conferences in Oncology, Buenos Aires, Argentina 2017
- Plenary Lecture "Alfredo Lanari", Society of Clinical Investigation, Buenos Aires, Argentina 2017.
- Closing Lecture "ICIVET- Litoral" Contribution of Science and Technology to the Society", Esperanza, Santa Fé, Argentina 2017.

## 2016

- Invited Speaker American Association of Cancer Research (AACR), New Orleans, USA 2016
- Invited Speaker American Society of Hematology (ASH ) Lymphoma Biology, Colorado Springs, USA 2016
- Invited Speaker, Lymphoma Microenvironment, Aarhus, Denmark 2016
- Invited Speaker, Seminar Series Cancer Research UK, Manchester, 2016
- Plenary Lecture "National Hospital Clinicas" National University of Córdoba, Argentina 2016.
- Organizer, Chair and Lecturer at the Symposium "Winning the battle against cancer", Faculty of Exact and Natural Sciences, MINCYT- RAICES University of Buenos Aires, 2016.
- Invited by the President of Argentina to the Meeting of Ministers "The future of Science" Buenos Aires, Argentina 2016.
- Invited Speaker "Update in Immuno-Oncology", University of Córdoba and Roche, Argentina 2016.
- Plenary Lecture "Annual Congress of Biochemistry" NOA, San Salvador de Jujuy, Argentina 2016.
- Plenary Lecture "Glycocheckpoints in Oncology", University of Tucumán, Argentina 2016.
- Plenary Lecture "Immuno-Oncology Conferences, Bristol Meyer Squibb, Buenos Aires, Argentina 2016

- Invited Speaker “Congress of National Universities in Argentina”, Buenos Aires, Argentina 2016.
- Plenary Lecture “1<sup>st</sup> National Congress of Clinical Biochemistry and Translational Medicine”, National University of Córdoba, Córdoba, Argentina 2016.
- Plenary Lecture, Rheumatology Congress “Hospital de Clínicas”, Buenos Aires, Argentina 2016.
- Invited Speaker Argentinean Council of International Affairs, Presidency of Argentina, Buenos Aires, 2016
- Invited Speaker “International Max Plank Institute Symposium” Buenos Aires, Argentina 2016.
- Plenary Lecture “Argentinean Congress of Clinical Neurology” Mar del Plata, Argentina 2016.
- Invited Speaker “Faculty of Exact and Natural Sciences” University of Córdoba, Argentina 2016
- Invited Speaker Seminar at the National Institute of Technology (INTA), Buenos Aires, 2016
- Invited Speaker “Translational Research Symposium” FLENI Institute , Buenos Aires, 2016
- Invited Speaker “Workshop on Scientific Communication” Faculty of Exact and Natural Sciences, University of Buenos Aires, 2016.
- Invited Speaker “Immuno-glycobiology” . Peruvian Society of Oncology, Lima, Perú 2016.
- Plenary Lecture and Chair “Glycobiology of cancer”. Argentinean Society of Clinical Oncology, Buenos Aires, 2016.
- Online Course on Inmuno-Oncology, MSD Latin America, Buenos Aires, Argentina 2016
- Invited Speaker at the Workshop “Science for Advancement of our Country”, Buenos Aires, Argentina 2016

#### 2015

- Invited Speaker Gordon Conference Glycobiology, Lucca, Barga; Italy 2015
- Invited Speaker Jenner Glycobiology and Medicine Symposium, Paris, France 2015
- Invited Speaker Prospects of Immunity for Precision Cancer Medicine, University of Jerusalem, Israel 2015
- Invited Speaker EMBO Meeting Animal Lectins, Rehovot, Israel 2015
- Closing Lecture Latin American Congress of Glycobiology, México 2015
- Plenary Lecture Latin American Congress of Immunology ALAI-IUIS, Medellin, Colombia 2015
- Invited Speaker Symposium Tumor Immunology, Lima, Perú 2015
- Plenary Lecture Symposium Signal Transduction in Biology, Bariloche, Argentina, 2015
- Opening Lecture International Oncology Conferences Buenos Aires, Argentina, 2015
- Invited Speaker Institute for Research and Innovation in Health, University of Porto, Porto, Portugal 2015
- Invited Speaker Seminar Series Hospital del Mar, Barcelona, Spain 2015
- Invited Speaker Sanofi Boston, USA 2015
- Invited Speaker Seminar Series Ben Gurion University, Beer Sheva, Israel 2015
- Invited Speaker Lutenberg Center for Tumor Immunology, Hadassah Medical School, Jerusalem, Israel 2015
- Plenary Lecture at the 16th Argentinean Congress of Microbiology, Santa Fe, Argentina 2015.
- Opening Lecture at the Interamerican Conferences in Oncology, Buenos Aires, Argentina 2015.
- Invited Speaker PULCOR, Argentinean Association of Clinical Oncology, Córdoba, Argentina 2015.
- Plenary Lecture, University of the South, Bahía Blanca, Argentina 2015.
- Closing Lecture "Symposium on Renal Transplantation" The Argentinean Foundation for Organ Transplantation and Novartis. Buenos Aires, Argentina 2015.
- Plenary Lecture "Argentinean Society of Biology" Buenos Aires, Argentina 2015
- Plenary Lecture First Symposium in Immunotherapy, Hospital Militar, Buenos Aires, Argentina 2015
- Plenary Lecture "Annual Symposium in Biomedicine" Sanatorio Allende, Córdoba, Argentina 2015.

#### 2014

- Keynote Speaker International Glycomics Meeting, Cannmore, Edmonton, Canada, 2014
- Invited Speaker 29<sup>th</sup> Meeting Society of Immunotherapy of Cancer, National Harbor, MD, USA 2014

- Plenary Lecture International Congress of Immunology Brazilian Society of Immunology, Buzios, 2014
- Closing Lecture PAMBP 37<sup>th</sup> Annual Meeting Chilean Society of Biochemistry, Puerto Varas, Chile 2014
- Invited Speaker Bristoll Meyer Squibb Seminar Series, CIMA, Pamplona, Spain 2014
- Invited Speaker Seminar Series University of Maryland, Baltimore, USA 2014
- Invited Speaker Seminar Series New York University, New York, USA 2014
- Invited Speaker Seminar Series Lankenau Institute of Oncology, Philadelphia, USA 2014
- Invited Speaker Keystone Meeting "Metabolism and Angiogenesis" British Columbia, Canada 2014
- Invited Speaker Jounce Therapeutics Inc, Boston, USA 2014
- Invited Speaker Merck Workshop Translational Research, Boston USA 2014
- Plenary Lecture "Translational Glycobiology" Argentinean Society of Biochemistry and Molecular Biology, Rosario, Argentina 2014.
- Closing Lecture 1st GLYCO-AR (Argentinean Congress of Glycobiology), Buenos Aires, Argentina 2014
- EMBL Lecture (European Molecular Biology Laboratories), Buenos Aires, Argentina 2014.
- Closing Conference, Anniversary Center of Immunology and Biochemistry, Córdoba, Argentina 2014.
- Bunge & Born Conference Award, Santa Fé, Argentina 2014.
- Honoris Causa Lecture "National University of Córdoba", Córdoba, Argentina 2014.
- Invited Speaker Seminar Series Cardini "Luis F. Leloir Institute" , Buenos Aires, Argentina 2014.
- Invited Speaker Seminar Series National University of San Martin, San Martin, Argentina 2014
- Invited Speaker Seminar Series "Frontiers in Biosciences" Institute of Biological Research (IBR), Rosario, Argentina 2014.
- Plenary Lecture Meeting of the Argentinean Society of Immunology, Glycoimmunology, Argentina 2014.
- Invited Speaker Córdoba, Secretary of Science and Technology, University of Córdoba, Argentina 2014.
- Plenary Lecture 15th Congress of Internal Medicine, Hospital de Clínicas, Buenos Aires, Argentina 2014.
- Plenary Lecture High Complexity Laboratories (ALAC), Lujan, Argentina 2014.
- Plenary Lecture CCT Mendoza, National University of Cuyo, Mendoza, Argentina 2014.
- Plenary Lecture Faculty of Medicine, North East National University, Corrientes, Argentina 2014.
- "Oscar Orias" Lecture , Society of Biology of Córdoba, Córdoba, Argentina 2014.
- Plenary Lecture "Argentinean Medical Society and Argentinean Society of Oncology" Argentina 2014.
- Invited Speaker Seminar Series CCT CONICET Tandil, Buenos Aires, Argentina 2014.
- Plenary Lecture at the "14th International Conference on Neuronal Ceroid Lipofuscinoses (Batten Disease) & Patient Organization Meeting". Córdoba, Argentina 2014.
- Plenary Lecture at the Academy of Sciences of Buenos Aires, Glycobiology of Inflammation. Argentina 2014.
- Invited Speaker Seminar Series Henry Moore Institute of Oncology, Buenos Aires, Argentina 2014.

### 2013

- Plenary Lecture International Congress of Immunology Milan, Italy 2013
- Invited Speaker American Association of Immunologists AAI; Symposium Glycoimmunology, Hawaii, 2013
- Invited Speaker German-Argentinean Meeting on Immunology and Infection- Hannover, Germany 2013
- First Distinguished Lecturer Experimental Oncology- Weill Cornell Medical College, New York, USA 2013
- Invited Speaker Satellite Symposium on Neuroimmunology, Milan, Italy 2013
- Invited Speaker at Genentech, San Francisco, USA 2013
- Invited Speaker Seminar Series Jacques Monod Institute, University of Paris, France, 2013.
- Plenary Lecture Induction Ceremony National Academy of Science, Córdoba, Argentina 2013.
- Plenary Lecture "Jorge Avalos" Society of Biology of Córdoba, Argentina 2013.
- Plenary Lecture "Government of Argentina" BECAR Program, Buenos Aires, Argentina 2013.



## 2012

- Plenary Lecture Anniversary Mizutani Foundation for Glycoscience Tokyo, Japan 2012
- Invited Speaker Symposium Glyco-minded Biology of Disease Tokyo, Japan 2012
- Invited Speaker Seminar Rikey Tokyo, Japan 2012
- Opening Lecture Latin American Society of Immunology Lima, Perú 2012
- Plenary Lecture 11<sup>th</sup> International Congress Neuroimmunology, Boston, USA 2012
- Invited Speaker Annual Meeting Mexican Society of Immunology, Merida, México 2012
- Invited Speaker 22<sup>nd</sup> IUBMB and 37<sup>th</sup> FEBS Congress, Sevilla, Spain 2012
- Invited Speaker Immunology Course Universidad de La República, Montevideo, Uruguay 2012
- Opening Conference German-Argentinean Symposium on Pathogen Invasion and Immune Evasion, Buenos Aires, Argentina 2012.
- Interdisciplinary Symposium (Maths-Biology) organized by the Ministry of Science and Technology, Buenos Aires, Argentina 2012.
- Plenary Lecture Argentinean Congress of Clinical Biochemistry. Catamarca, Argentina 2012.
- Plenary Lecture "Alberto Taquini" Clinical Society of Investigation (SAIC). Mar del Plata, Argentina 2012.

## 2011

- Chair and Organizer (together with Brian Cobb and Yvette van Kooyk) "First Keystone Symposium on Glycoimmunology" Lake Louis, Alberta, Canada 2011
- Keynote Speaker "International NIH Meeting Glycans in Cell Communication" Bethesda, USA 2011
- Invited Speaker "Sixth Annual Georgia Glycoscience Symposium", Georgia, USA 2011
- Invited Speaker "Society of Glycobiology", Seattle, USA 2011
- Plenary Speaker "Third World Academy of Sciences TWAS", Trieste, Italy 2011
- Invited Speaker "American Association of Cancer Research AACR", Orlando, Florida, USA 2011
- Invited Speaker University of Tel Aviv, School of Life Sciences, Tel Aviv, Israel 2011.
- Invited Speaker Ben Gurion University, Beer Sheva, Israel 2011
- Invited Speaker Weizmann Institute of Science, Rehovot, Israel 2011
- Invited Speaker VU University, Amsterdam, The Netherland 2011
- Invited Speaker Nestle Research Center, Laussane, Switzerland, 2011
- Invited Speaker Seminar Series Moffitt Cancer Center, Tampa, USA 2011
- Invited Speaker Seminar Series IHEM-CONICET, Mendoza, Argentina 2011.
- Plenary Lecture Tecnopolis, Argentinean Government, Villa Martelli, Argentina 2011.
- Plenary Lecture University of Tel Aviv "Last advances in Biology and Ecology" 2011
- Invited Speaker Workshop on Cancer organized by the Minister of Science and Technology and the Institute of Oncology (IFON, Milan) 2011.

## 2010

- Invited Speaker "Keystone Symposium Immune Escape in Cancer" Keystone Colorado, USA 2010
- Invited Speaker "Cancer Research Institute Annual Symposium" Glycans in cancer, New York, USA 2010
- Invited Speaker "38<sup>th</sup> Annual Meeting Australasian Society of Immunology", Camberra, Australia 2010
- Invited Speaker "International Immunopharmacology Conference" –Regulatory cells, Washington; USA 2010
- Closing Lecture "French-Argentinian Congress of Immunology" – Buenos Aires, Argentina 2010
- Invited Speaker William Harvey Research Institute, London, UK 2010
- Keynote Speaker "Glycans in Cell Communication" NIH Bethesda, USA 2010
- Invited Speaker Immunology/ Microbiology University of Maryland, Baltimore, USA 2010
- Invited Speaker Seminar Series Dana Farber Cancer Institute, Harvard Medical School, Boston 2010

- Invited Speaker Seminar Diabetes Research Institute, University of Miami, USA 2010.
- Invited Speaker Congress of Immunology, Universidad de la República, Montevideo, Uruguay 2010
- Invited Speaker Congress International Dendritic Cell Society, Paris, France 2010
- Invited Speaker Seminar Series University of Washington, Seattle, USA 2010
- Invited Speaker Seminar Series John Hopkins University, Baltimore, USA 2010
- Invited Speaker Seminar Series NIH, Oral and Pharyngeal Cancer Branch, Bethesda, USA 2010
- Invited Speaker "Latin American Congress of Autoimmunity LACA 2010" Buenos Aires, Argentina 2010
- Plenary Lecture in the Symposium "Three Generations of Scientists" in Memorial of the Nobel Prize Bernardo Houssay. Argentinean Society of Biology, Buenos Aires, Argentina. 2010.
- Invited Speaker at the Symposium "Scientists of the Bicentenary", Ministry of Science and Technology, Buenos Aires, Argentina 2010.
- Plenary Lecture Bicentenary, University of Buenos Aires, Buenos Aires, Argentina 2010.
- Plenary Lecture National University of San Luis, San Luis, Argentina 2010

## 2009

- Invited Speaker "Gordon Conference Glycobiology", Ventura, California 2009
- Keynote Speaker "10<sup>th</sup> International Congress of Mucins in Health and Disease" Cambridge, UK 2009
- Invited Speaker "Acquired Immunity and Glycobiology" Kazusa, Japan 2009
- Invited Speaker "III Iberoamerican Congress of Neuroimmunomodulation" Buenos Aires, Argentina 2009
- Invited Speaker Seminar Series University of California Davis, Sacramento, USA 2009
- Keynote Speaker Plenary Lecture "Latin American Congress of Immunology", Viña del Mar, Chile 2009
- Invited Speaker "World Allergy Congress WAC", Buenos Aires, Argentina 2009
- Invited Speaker Workshop Consortium for Functional Glycomics, Cambridge UK 2009
- Plenary Lecture 28th Congress of the Society of Clinical Biochemistry, Buenos Aires, Argentina 2009
- Invited Speaker International Symposium in Tumor Immunity, University of Quilmes, Argentina 2009
- Plenary Lecture "Ranwell Caputto Award" National Academy of Sciences, Córdoba, Argentina 2009
- Plenary Lecture in the Latin American Workshop for Science Education". Academy of Exact and Natural Sciences, Bernardino Rivadavia Museum, Buenos Aires, Argentina 2009.

## 2008

- Invited Speaker "38<sup>th</sup> Annual Meeting Australasian Society of Immunology", Canberra, Australia 2008
- Invited Speaker Seminar Center de Recherche en Infectiologie "Labal University", Quebec, Canada, 2008.
- Invited Speaker Symposium "University of Pennsylvania Host-Microbe Interactions", Philadelphia, USA 2008
- Invited Speaker Seminars "University of San Francisco", San Francisco, CA; USA 2008.
- Invited Speaker Diabetes Research Center, University of Miami, Miami, FL, USA 2008.
- Invited Speaker Seminars University of Maastrich, The Netherlands, 2008.
- Invited Speaker Pasteur Institute, Montevideo, Uruguay 2008.
- Invited Speaker Tumor Immunology Workshop, Camberra, Australia 2008
- Invited Speaker Immunology Symposium Organized by INFANT Foundation, Buenos Aires, Argentina 2008
- Chair and Speaker Symposium "Glycomics in Health and Disease" Argentinean Society of Clinical Investigation, Mar del Plata, Argentina 2008.
- Plenary Lecture "Leonardo Satz" Argentinean Society of Immunology, Córdoba, Argentina 2008.
- Plenary Lecture "Lymphomas" Argentinean Society of Hematology, Córdoba, Argentina 2008.
- Plenary Lecture 12th Congress of Internal Medicine, Buenos Aires, Argentina 2008.

## 2007

- Invited Speaker “Sapporo Conferences” Glycobiology and Cancer, Sapporo, Japan 2007.
- Invited Speaker Society of Glycobiology, Consortium for Functional Glycomics, Boston, USA 2007
- Invited Speaker Meeting “Trauma, Shock, Inflammation and Sepsis”Munchen, Germany 2007
- Invited Speaker Symposium “Tango Lessons for Brain Cancer Research: Understanding Cellular Intrincacy, Improvising New Therapies”. James McDonnel Foundation Workshop. Córdoba, Argentina 2007
- Invited Speaker Seminars MD Anderson Cancer Center, Houston, USA 2007..
- Invited Speaker American Society of Chemistry, Symposium: Galectins, structure, biochemistry and function, Boston, USA 2007.
- Invited Speaker Workshop “Glycomics of Immune Responses” 13<sup>th</sup> International Congress of Immunology, Rio de Janeiro, Brazil, 2007
- Invited Speaker Seminar Series “Tuffts University”, Department of Immunology, Boston, USA 2007.
- Invited Speaker Seminar Series “Harvard Medical School” Department of Neurology, Boston, USA 2007.
- Invited Speaker “International Congress of Cell Death” , Angra dos Reis, Brazil 2007.
- Plenary Lecture “5<sup>th</sup> International Congress of Reproductive Immunology”, Berlin, Germany 2007.
- Invited Speaker International Symposium "Recent Progress in Cancer Biology and Therapeutics", National Academy of Medicine, Buenos Aires, Argentina 2007.
- Plenary Lecture International Symposium "Current Status and Future of anti-cancer targeted therapies", 1st Interamerican Oncology Conferences, Buenos Aires, Argentina 2007
- Plenary Lecture "Congress of Clinical Biochemisry" Carlos Paz, Argentina 2007.
- Invited Speaker Symposium "Argentinean Society of Biochemistry and Molecular Biology" Mar del Plata, Argentina 2007.
- Plenary Lecture Biochemical Congress of the Province of Buenos Aires, Mar del Plata, Argentina 2007
- Plenary Lecture 6th meeting of the Ministry of Education ITBA, Buenos Aires, Argentina 2007
- Plenary Lecture 2nd Argentinean School of Maths and Biology, Faculty of Physical Sciences, Córdoba, Argentina 2007.

## 2006

- Invited Speaker “American Society of Hematology ASH” Lymphocyte Biology Sessions, Orlando, USA 2006
- Invited Speaker Seminar Series “Harvard Medical School” Department of Neurology, Boston, USA 2006.
- Invited Speaker Seminar “Center of Marine Biotechnology” University of Maryland, Baltimore, USA 2006
- Invited Speaker Seminar Series “New York University” Medical Center, New York, USA 2006
- Invited Speaker Seminar Series “Charite University” Berlin, Germany 2006.
- Invited Speaker Seminar Series “Dana Farber Cancer Institute” Boston, USA 2006
- Invited Speaker Plenary Conference “Universidad Autónoma de Coahuila” Torreon, México 2006.
- Invited Speaker “Hospital Oca; División Ciencias de la Salud” UDEM, Monterrey, México 2006.
- Invited Speaker “Brazilian Society of Immunology” Buzios, Brazil 2006.
- Plenary Lecture “TWAS ROLAC First Regional Conference” Promoting Life Sciences for Sustainable Development, Angra dos Reis, Brazil 2006.
- Invited Speaker Seminar Series Institute of Biotechnology, University of San Martin, Argentina 2006.
- Invited Speaker 1st German-Argentinean Meeting on Cell Therapies in Cancer and Degenerative diseases. ARGER Foundation. Buenos Aires, Argentina 2006.
- Invited Speaker 3rd Meeting on Lymphoproliferative Disorders, Córdoba, Argentina 2006.
- Invited Speaker Meeting Advances in Cancer Treatment, University of Rosario and Roche Lab, Rosario 2006
- Invited Speaker Argentinean Association of Cancer, Buenos Aires, Argentina 2006.
- Plenary Conference "Nobel Prize Luis F. Leloir" National Academy of Medicine, Buenos Aires, Argentina 2006

## 2005

- Invited Speaker at the Weizmann Institute of Science “80<sup>th</sup> Anniversary of Prof. Nathan Sharon”, Rehovot, Israel 2005.
- Invited Speaker Symposium “Targeted Therapies” European Academy of Rheumatology EULAR, Nisa, France, 2005
- Invited Speaker Seminar Series “Institute of Genetics” Montpellier, France, 2005
- Invited Speaker Universidad de la República, Symposium Tumor Immunology, Montevideo, Uruguay 2005
- Invited Speaker Chilean Society of Cell Biology, Pucón, Chile 2005
- Invited Speaker Latin American Society of Immunology, Córdoba, Argentina 2005.
- Plenary Conference Argentinean Genetics Society, Mar del Plata, Argentina 2005.
- Plenary Conference 24th Meeting of the Latin American Society of Dermatology (RADLA), Buenos Aires, Argentina 2005.
- Plenary Conference of the Annual Congress of Clinical Biochemistry, University of Litoral, Santa Fe, Argentina 2005.
- Invited Speaker "Symposium in Oncology" Hospital Angel Roffo, Buenos Aires, Argentina 2005
- Invited Speaker "Max Plank Symposium" Claridge Hotel Buenos Aires, Argentina, 2005
- Invited Speaker Seminar Series "Luis Federico Leloir Institute", Buenos Aires, Argentina 2005.

## 2004

- Invited Speaker “Interlec 21: International Congress of Lectins 21”, Shonan Village, Japan 2004.
- Invited Speaker “Glycobiology Interest Group”, John Hopkins University, Baltimore, USA 2004.
- Invited Speaker Seminar “Center for Marine Biotechnology” University of Maryland, Baltimore, USA 2004.
- Invited Distinguished Speaker Seminar Series “Moffit Cancer Center”, Tampa, Florida 2004.
- Invited Speaker Seminar Series “London School of Hygiene and Tropical Medicine”, London, UK 2004.
- Invited Speaker Seminar Series Glycoscience Department “Imperial College” London, UK 2004.
- Invited Speaker “12<sup>th</sup> Meeting on Cell Biology” Sao Paulo, Brazil 2004.
- Invited Speaker "Iberoamerican Congress of Rheumatology" Buenos Aires, Argentina 2004.
- Plenary Conference "Society of Biology of Córdoba" Córdoba, Argentina 2004.
- Opening Lecture "3rd Interdisciplinary Meeting of Universities" La Plata, Argentina 2004.
- Invited Speaker "Immunity and Cancer" 10th International Congress of Internal Medicine, Buenos Aires, Argentina 2004.
- Invited Speaker "Ministry of Education" Buenos Aires Piensa. Government of Buenos Aires City, 2004.
- Invited Speaker Symposium on Cancer. Meeting of Science, Technology and Society, Buenos Aires, 2004
- Invited Speaker Seminars Faculty of Exact and Natural Sciences, University of Buenos Aires, 2004.
- Invited Speaker Seminars Institute of Technology (INTA-Castelar), Castelar, Argentina 2004.

## 2003

- Invited Speaker “Mediterranean School of Oncology” Symposium “New Molecular Targets in Cancer Therapy”, Rome, Italy 2003
- Invited Speaker Seminar Series “University of Tor-Vergata” Rome, Italy 2003.
- Invited Speaker Seminar Series “University of Chieti” Chieti, Italy 2003.
- Invited Speaker Seminar Series “Max Plank on Neurobiology” Munchen, Germany 2003.
- Invited Speaker Seminar Series “Institute of Physiology, Physiological Chemistry and Animal Nutrition, Faculty of Veterinary Medicine, Lux-Maximilians University of Munchen” Munchen, Germany 2003.

- Plenary Lecture “2<sup>nd</sup> International Congress of Immunology”, Lima, Perú 2003.
- Symposium Anniversary Hospital Italiano, Córdoba, Argentina 2003.
- Symposium "Mechanisms of tumor-immune escape", Argentinean Society of Clinical Investigation, Mar del Plata, Argentina 2003.

## 2002

- Invited Speaker National Congress of Genetics, Mar del Plata, Argentina 2002.
- Invited Speaker Seminar Series Rheumatology Division Hospital de Clínicas "José de San Martín", School of Medicine, University of Buenos Aires, Buenos Aires, Argentina 2002.
- Invited Speaker "Gene Therapy in Latin America: From the bench to the clinic" Institute Luis F Leloir, Buenos Aires, Argentina 2002.
- Invited Speaker "Neuroimmunology" FLENI Institute, Buenos Aires, Argentina 2002.
- Invited Speaker "New Advances in Cancer" "Meeting of the Association of Biochemistry", Córdoba, Argentina, 2002.
- Invited Speaker "Emerging solutions in Rheumatology", Congress of Hospital de Clínicas "José de San Martín", Buenos Aires, Argentina, 2002.
- Invited Speaker "New Therapies in Rheumatoid Arthritis", Latin American Congress of Rheumatology", Mar del Plata, Argentina, 2002.

## 2001

- Invited Speaker EC Conferences, Symposium on Glycosciences and Inflammation, Brussels, Belgium 2001.
- Plenary Conference 5th Meeting of Biochemistry, Faculty of Biochemical and Pharmaceutical Sciences, National University of Rosario, Argentina. 2001.
- Invited Speaker Round Table "Juniors meeting". 25th Annual Meeting of the Argentinean Society of Allergy and Immunology, Buenos Aires, Argentina 2001.

## 2000

- Invited Speaker “100<sup>th</sup> Anniversary Instituto Oswaldo Cruz”, Symposium on Genetic Manipulation and Gene Therapy”, Rio de Janeiro, Brazil 2000
- Invited Speaker “Annual Meeting of the Chilean Society of Biochemistry and Molecular Biology” Viña del Mar, Chile 2000.
- Invited Speaker "Symposium Hot Topics in Immunology" Argentinean Society of Allergy and Immunology, Buenos Aires, Argentina 2000.
- Invited Speaker "New therapeutic strategies in Autoimmunity". Argentinean Society of Allergy and Immunology, Buenos Aires, Argentina 2000.
- Invited Speaker "Advances in Molecular Immunopharmacology". 2nd Congress of Neuropsychopharmacology, Córdoba, Argentina 2000.
- Invited Speaker "Immunomodulatory therapies". 48th Annual Meeting of the Argentinean Society of Immunology and Clinical Investigation, Mar del Plata, Argentina 2000.
- Invited Speaker Round Table Gene Therapy "Argentinean Society of Cancer. Buenos Aires, Argentina 2000

## 1999

- Invited Speaker, Interdisciplinary Symposium "Frontiers of Cell and Molecular Biology". Society of Biology of Córdoba, Córdoba, Argentina 1999.

1998

- Invited Speaker Symposium "Young Talent Scientists of South America" 27<sup>th</sup> Annual Meeting of the Brazilian Society of Biochemistry and Molecular Biology, First Prize given to the Young Talented Scientists of South America, Caxambu, Brazil, 1998.
- Invited Speaker, Symposium in Memorial of Leonardo Satz. Argentinean Society of Allergy and Immunology, Buenos Aires, Argentina 1998.
- Invited Speaker, Symposium on Molecular Cloning. Faculty of Exact and Natural Sciences, University of Córdoba, Argentina. 1998.

1997

- Seminar Speaker "Weizmann Institute of Science" Department of Immunology, Rehovot, Israel 1997
- Seminar Speaker "The Kennedy Institute of Rheumatology" Imperial College, London, UK 1997
- Seminar Speaker "Department of Clinical Biochemistry"; National University of Cordoba, Argentina, 1997

## 15. CHAIR AND ORGANIZER OF SCIENTIFIC MEETINGS

- Member of the International Organizing Committee 1st International Immunology Congress, Lima, Perú 2003
- Chair and Organizer of the Symposium "Apoptosis", 52th Meeting of the Argentinean Society of Immunology, 2004
- Chair and Organizer of the Symposium "Tumor Immunology" Congress of the Latin American Society of Immunology 2005.
- Organizer and chair First Workshop on "Glycomics of the Immune Response", International Congress of Immunology, Río de Janeiro, Brazil 2007.
- Member of the Organizing Committee 13th International Congress of Immunology, Río de Janeiro, Brazil 2007.
- Organizer and Chair Symposium "Glycans in Health and Disease", Argentinean Society of Clinical Investigation Mar del Plata, Argentina 2008
- Member of the International Organizing Committee Latin American Congress of Immunology, Santiago de Chile, 2009.
- Organizer and Chair Symposium "Molecular signatures and therapeutic targets in lymphoproliferative disorders", Argentinean Society of Clinical Investigation, Mar del Plata, Argentina 2009
- Member of the Organizing Committee "French-Argentinean" Symposium in Tumor Immunology, Buenos Aires, 2010
- Chair Symposium "Glycobiology of neuroinflammation" Society of Clinical Investigation , Mar del Plata, Argentina 2011
- Chair and Organizer First Keystone Symposium in "Glycoimmunology", Lake Louise, Canada 2011.
- Member of the Organizing Committee "International Congress of Cell Biology", Buzios, Brazil 2012
- Member of the Advisory Committee "Latin American Congress of Immunology", Lima, Perú 2012
- Organizer of the First Congress of Glycobiology of Argentina, Glyco-AR, Buenos Aires 2014
- Chair and Organizer of the International Symposium "The war against cancer" (Symposium that attracted 1200 young scientists and students from all the country with special invited speakers including the Nobel Prize Laureate "Jack Szostak" lecture, Faculty of Exact and Natural Science, University of Buenos Aires 2015.

- Member of the International Committee of Keystone Meetings (2015-present)
- Member of the Organizing Committee of the Second Congress of Glycobiology, Glyco-AR, Villa General Belgrano, Córdoba 2016
- Director Immuno-Oncology Meeting- Argentinean Society of Clinical Oncology, 2016 BA, Argentina
- Chair and Organizer Symposium "Immunotherapy: The Revolution in the Treatment of Cancer", Faculty of Exact and Natural Sciences, University of Buenos Aires, 2017. Special Invited Speakers: Robert Schreiber, Lisa Coussiens, Antoni Ribas.
- Co-Chair 2nd LACOG meeting of the American Association of Cancer Research (AACR), Sao Paulo, Brazil 2018.
- Organizer of the Meeting on Science and Communication, Argentinean Society of Clinical Investigation, Mar del Plata, 2018.
- Member of the Organizing Committee 17th International Congress of Immunology (IUIS2019), Beijing, China 2019.
- Member of the Organizing Committee International Congress of Metastasis (Chair Julio Aguirre-Ghiso), Buenos Aires, 2020
- Member of the Organizing Committee of the Third Congress of Glycobiology, Glyco-AR Buenos Aires 2019.
- Chair and Organizers of the International Symposium and Course "Immunotherapy 2022" (Special Invited Speakers: James Allison (Nobel Prize 2018), Lawrence Steinmann, Sebastian Amigorena, Buenos Aires, Argentina.
- Member of the Organizing Committee: "Latin American Congress of Glycobiology" Virtual, 2021
- Member of the Organizing Committee: "International Congress of Immunology" Cape Town, South Africa, 2022
- Member of the Organizing Committee Annual Meeting of the American Association of Cancer Research (AACR) 2022

## 16. TEACHING RESPONSIBILITIES

- Assistant Professor "General Immunology Course", National University of Córdoba, Argentina 1993-1999
- Assistant Professor "Applied Immunology Course", National University of Córdoba, Argentina 1996-1999
- Invited Professor "Post-graduate Course in Allergy and Immunopathology" National University of Córdoba, Argentina 1994, 1995, 1996, 1997, 1998, 1999.
- Invited Professor "Pathology Course", National University of Córdoba, Argentina 1996-2000.
- Organizer of the Workshop "Molecular and Immunological Aspects of HIV infection". National University of Córdoba, Argentina 1996.
- Co-chair Course Molecular Biology "Principle and applications of PCR" Villa Giardino, Córdoba, 1997.
- Director of the Course on Molecular Immunology, Master in Immunology, San Luis, Argentina 1998
- Invited Professor "4th Post-graduate Course on Medical Genetics", Córdoba, Argentina 1998
- Invited Professor "Post-graduate Course in Dermatology" Hospital de Clínicas Córdoba, Argentina 1998.
- Invited Professor "Post-graduate Course in Medical Genetics", Córdoba, Argentina 1999.
- Invited Professor Course "Glycobiology of cancer" "Hospital Angel Roffo", Buenos Aires, Argentina 1999
- Invited Professor Course "Glycobiology of Infectious Diseases", Buenos Aires, Argentina 1999
- Director of the Course "Advances in Immunology" Argentinean Society of Pediatrics 2000.
- Assistant Professor "Course on Microbiology, Parasitology and Immunology", Faculty of Medicine, University of Buenos Aires 2000-2005
- Invited Professor Master in Molecular Medicine, Institute Leloir, Buenos Aires, Argentina 2000
- Invited Professor Course "Immune Tolerance and Autoimmunity", Córdoba, Argentina 2000.

- Invited Professor Course Immunology, Children Hospital Gutierrez , Buenos Aires, Argentina 2000.
- Invited Professor Doctoral Course "Immunity and Infection" , Córdoba, Argentina 2000.
- Invited Professor "Internal Medicine Course", School of Medicine, University of Buenos Aires, 2000-2002
- Invited Professor "Molecular Glycobiology", National University of Córdoba, Córdoba, Argentina 2001.
- Invited Professor "Physiology of the Immune Response" Course. Faculty of Exact and Natural Sciences, University of Buenos Aires 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019.
- Invited Professor Master in Biotechnology, Faculty of Veterinary Sciences , Buenos Aires, Argentina 2001.
- Invited Professor Course "Topics in Molecular Immunology" Argentinean Society of Allergy and Immunology, 2001
- Invited Professor Course "Gene Therapy" Hospital de Clínicas José de San Martín, Buenos Aires, 2001
- Director of the Course "Immunotechnology and Gene Therapy", Argentinean Society of Immunology, Buenos Aires 2002.
- Invited Professor Brazilian-Argentinean Biotechnology Center (CABBIO), San Salvador de Bahía, Brazil 2002.
- Invited Professor Course on "Autoimmunity" School of Biochemistry, San Juan, Argentina 2002
- Professor Course "Cell Death Mechanisms", Hospital de Clínicas, Buenos Aires, Argentina 2002
- Professor "International Course of Oncology" European School of Oncology, Rome, Italy 2003.
- Professor "Course on Biotechnology" , Faculty of Veterinarian Sciences, Univ. Buenos Aires, 2003
- Professor "Course on Endocrinology", Hospital Posadas, Buenos Aires 2003
- Professor Course "Advances in Cell and Molecular Biology", Institute Leloir, Buenos Aires 2003.
- Professor Course "Immunology", Hospital Rivadavia, Buenos Aires 2003.
- Professor Satellite Course 2nd International Congress of Immunology, Lima, Perú 2003.
- Invited Professor Master in Molecular Medicine, Institute Leloir, University of Buenos Aires, 2003
- Director Course of "Tumor Immunology" Master in Immunology, University San Luis, Argentina 2004.
- Invited Professor Society of Endocrinology and Metabolism, Buenos Aires 2004.
- Professor Course "Carcinogenesis: from molecular pathways to therapy" IBYME, Buenos Aires 2004.
- Professor Course "Molecular Oncology" University of Rosario, 2004.
- Invited Professor "Molecular Biology in Medicine" Clínica Suizo-Argentina, Buenos Aires 2004.
- Invited Professor "Master in Molecular Medicine" University of Buenos Aires, Argentina 2004.
- Director together with Dr. Eduardo Arzt of the Course of "Molecular Physiology of Immune Responses" Faculty of Exact and Natural Sciences, University of Buenos Aires 2005
- Director of the Course "Immunity, Tolerance and Cancer", University of Rio Cuarto, Argentina 2006
- Invited Professor "Immunology Course" Faculty of Exact and Natural Sciences, National University of La Plata, Buenos Aires, Argentina 2005-2007
- Invited Professor "Glycobiology" Course on Biological Chemistry. Luis Federico Leloir Institute, Buenos Aires, Argentina 2002, 2003, 2004.
- Invited Professor Microbiology Course, Department of Biological Chemistry, Faculty of Exact and Natural Sciences, University of Buenos Aires, 2005-2014
- Adjunct Professor responsible of the Immunology Course, Department of Biological Chemistry, Faculty of Exact and Natural Sciences, University of Buenos Aires, 2005-2010
- Invited Professor "Basic Immunology Course" . Children Hospital Gutierrez 2005
- Invited Professor Course "Glycobiology: from molecules to function", Department of Organic Chemistry, University of Buenos Aires 2005.
- Invited Professor Course "Glycobiology of Cancer" Universidad de la República" , Montevideo, Uruguay 2005.
- Invited Professor Course "Science Communication" Institute Leloir, Buenos Aires, Argentina 2005.



- Invited Professor Course "Immune Tolerance" Faculty of Pharmacy and Biochemistry, University of Buenos Aires, 2005.
- Invited Professor Course on Endocrinology and Metabolism, Faculty of Medicine, University of Buenos Aires, 2006.
- Invited Professor Post-graduate Course "Dendritic cells from health to disease" National University of Córdoba, Argentina 2006.
- Invited Professor Course "Carcinogenesis from molecular pathways to clinical medicine" Institute of Biology and Experimental Medicine, IBYME, Buenos Aires, Argentina 2006.
- Invited Professor Course "Glycoimmunology" University of Sao Paulo, Riberáo Preto, Brazil 2006
- Invited Professor Course "Cancer at the Frontiers of Glycobiology and Immunology" University of Rio Cuarto, Argentina 2006
- Invited Professor "Genetics and Molecular Biology" Course. Faculty of Pharmacy and Biochemistry, University of Buenos Aires. 2007-2008.
- Invited Professor Course "Apoptosis and Cancer" University of Buenos Aires, Argentina 2007
- Invited Professor Course "Immunological Methods" Faculty of Exact and Natural Sciences, University of Buenos Aires, 2007.
- Invited Professor Course "Cell Death Mechanisms" IBYME, Buenos Aires 2007.
- Invited Professor General Course on Physiology, IBYME, Buenos Aires 2007
- Post-graduate Seminar Course Tufts University, Boston, USA 2007
- Invited Professor Post-graduate Course (PSH-67244) 2007 "Maladies humaines et anomalies du métabolisme-human diseases and abnormality of metabolism". Centre de Recherche en Infectiologie, Université LAVAL, Québec, Canada. 2007
- Invited Professor Course on "Carcinogenesis: from molecules to clinics" IBYME, Buenos Aires 2008
- Invited Professor Course "Bases of Oncohematology" Sanatorio Julio Mendez, Buenos Aires 2008
- Invited Professor "Therapeutic Advances in Cancer" University of Rosario, Argentina 2008
- Invited Professor Course "Advances in Apoptosis" , IBYME, Buenos Aires 2008
- Invited Professor Course on "Immunomodulation" Buenos Aires University, Buenos Aires 2009
- Invited Professor Master in Endocrinology. Modules: Immunology and Glycobiology, Univ. Austral, 2009
- Invited Professor Course in Carcinogenesis, IBYME, Buenos Aires 2010.
- Invited Professor Course Advances in Glyco-immunology, Universidad de La República, Uruguay 2010
- Invited Professor Course Apoptosis in Cancer, Faculty of Exact and Natural Sciences, Universidad de Buenos Aires, Argentina 2010.
- Invited Professor Course "Signal transduction, challenges and therapeutic opportunities" Faculty of Pharmacy and Biochemistry, University of Buenos Aires, 2010.
- Associate Professor responsible of the Immunology Course, Department of Biological Chemistry, Faculty of Exact and Natural Sciences, University of Buenos Aires, 2010-2012
- Invited Professor Master of Endocrinology and Metabolism, Universidad Austral, Pilar, Buenos Aires 2011
- Director Course "Immunity and Cancer" , Master of Immunology, University of San Luis, Argentina 2012
- **Full Professor and Chair, Immunology Course, Department of Biological Chemistry, Faculty of Exact and Natural Sciences, University of Buenos Aires, 2012-present**
- Invited Professor Course of Carcinogenesis, IBYME, Buenos Aires 2012
- Invited Professor French-Argentinean Course on Cell Biology, University of Buenos Aires 2012
- Invited Professor Master of Endocrinology and Immunology, Universidad Austral, Pilar 2013
- Invited Professor Course on "Cancer", Hospital Italiano Buenos Aires, 2013
- Invited Professor Course "Glycobiology of Cancer" , Institute Pasteur, Montevideo, Uruguay 2013
- Invited Professor International Course ASCAI (Argentinean Society of Immunology) Los Cocos, 2013.

- Co-organizer Course on "Glycobiology" , Buenos Aires, Argentina 2014.
- Organizer Workshop "Glycomedicine" Buenos Aires, Argentina 2014
- Invited Professor Course of Carcinogenesis, IBYME, Buenos Aires, Argentina 2014
- Invited Professor Course "Tumor Biology" CONICET Mendoza, Argentina 2014
- Invited Professor Course "Immunopathology of renal transplantation" Foundation of Organ and Tissue Transplantation, Buenos Aires, 2014.
- Invited Professor First Workshop in Immuno-Oncology (MSD Argentina), Buenos Aires, Argentina 2014.
- Invited Professor Cancer Immunology, Hospital Italiano Buenos Aires, Argentina 2015.
- Invited Professor Online Course of Basic Immunology, BMS, Buenos Aires, Argentina 2015
- Invited Extraordinary Professor, Universidad Nacional del Sur, Bahía Blanca, Argentina 2015.
- Invited Professor Training in Immuno-Oncology, BMS, Buenos Aires, Argentina 2015.
- Director Course in Immuno-Oncology, Argentinean Society of Clinical Oncology, Córdoba, Argentina 2016
- Invited Professor Course of Tumor Immunology, Peruvian Society of Oncology, Lima, Perú 2016.
- Invited Professor Course "Cancer at the Frontiers of Immunology and Glycobiology" , Argentinean Society of Clinical Oncology, Buenos Aires 2016.
- Invited Speaker "Immuno-glycobiology", Universidad Cayetano Heredia, Lima, Perú 2017.
- Invited Speaker Course "Carcinogenesis", IBYME, CONICET 2018, 2020, 2022.
- Organizer and Speaker Course Clinical Immuno-Oncology, University of Buenos Aires and Universidad Austral 2020, 2021
- Invited Speaker Annual Course on Uro-Oncology 2020, 2022
- Organizer and Speaker Course "Immunotherapy 2022: From the gene to clinical therapy" Faculty of Exact and Natural Sciences, University of Buenos Aires..

## 17. MEMBER OF ADVISORY COMMITTEES FOR GRANTS, INSTITUTIONS AND AWARDS

- Grant Reviewer Agencia Nacional de Promoción Científica y Tecnológica, Argentina 2000-2019
- Grant Reviewer Universidad de La República, Montevideo, Uruguay 2001-2015
- Grant Reviewer for Fundación Sales 2000-2020
- Grant Reviewer for Doctoral Theses, School of Biochemistry, University of Buenos Aires 2001-2008
- Member of the Advisory Board Editorial Médica Panamericana 2001-2002
- Member of the Advisory Committee Scientific Projects (University of Córdoba; Argentina 2002-2005)
- Ad-hoc Reviewer National Council of Scientific and Technical Investigation, CONICET 2002-2020
- Grant Reviewer, Secretary of Science and Technology, Universidad del Litoral, Santa Fe, Argentina 2002
- Ad-hoc Reviewer Carrillo-Oñativia Fellowships- Ministry of Health, Argentina 2003
- Reviewer of applications for the Patent Office The Netherlands, 2004
- Award Committee Argentinean Society of Biology 2004
- Selection Committee Assistant Professor Department of Microbiology, Parasitology and Immunology, 2004.
- Award Committee 12th International Congress Cell Biology 2005.
- Reviewer Wellcome Trust (UK) 2005-2008
- Reviewer National Science Foundation (NSF; USA) 2005
- Member of the Ad-hoc Committee National Agency for Promotion of Science and Technology (2006, 2007)
- Reviewer "Fonds National de la Recherche Scientifique", Belgium 2006-2007
- Grant Reviewer Foundation for Cancer Treatment, Belgium 2006
- Grant Reviewer CONICYT- Program for Science and Technology, Chile 2007
- Grant Reviewer National Academy of Austria, 2007

- Grant Reviewer, Master in Immunology, Catholics University of Chile, 2007
- Selection Committee Leonardo Satz Award, Argentinean Society of Immunology 2007
- Member of the Advisory Committee in Medical Sciences (National Research Council, Argentina 2006-2007)
- Member of the Advisory Board Immunology Nucleus Millenium Projects (Chile, 2007-2009)
- Member of Post-graduate Committee Catholics University of Córdoba (Argentina 2007-2019)
- Member of the Selection Committee "Bunge & Born Award" in Experimental Medicine, 2008.
- Ad-hoc Reviewer "John Simon Guggenheim Memorial Foundation" New York, 2008, 2010, 2011
- Ad-hoc Reviewer Bi-National Projecks ICGEB-CBP Italy- Argentina 2008
- Reviewer for Tenure Track Professor, University of California, Davis, USA 2008
- Reviewer of Fellowships IUCC (International Union Cancer Control), Italy 2008
- Grant Reviewer MRC (Medical Research Council), UK 2008.
- Reviewer for Tenure Track Professor, University of Pennsylvania, USA 2009
- Grant Reviewer University of La República, Montevideo, Uruguay 2009
- Grant Project Scientists, University of California, Davis, USA 2009
- Grant Reviewer Dutch Cancer Society, The Netherlands, 2009
- Selection Committee L'Oreal Prize for Women in Science, 2009 and 2019
- Grant Reviewer Third World Academy of Science (TWAS), 2010
- Grant Reviewer USA-Israeli Binational Foundation for Science 2010.
- Grant Reviewer The Netherlands Organization for Scientific Research (NWO). 2010
- Grant Reviewer Australasian Society of Multiple Sclerosis, 2010.
- Grant Reviewer Academia Sinica, Taiwan, 2010.
- Advisory Board International Collaborative Grants Germany-Argentina 2010
- Grant Reviewer Universidad Austral, Argentina 2010
- Selection Committee Assistant Professor Department of Biological Chemistry, Univ. of Buenos Aires 2010
- **Elected Member of the Council of Directors Institute of Biology and Experimental Medicine (2011-2017)**
- **Deputy Director Institute of Biology and Experimental Medicine, CONICET (2011-2020)**
- Reviewer for Tenure Track Professor, University of California, Irwine, USA 2011
- Grant Reviewer Wellcome Trust, London 2011
- Reviewer Tenure Track Professorship, Academia Sinica, Taiwan 2011
- Reviewer to Select Institute Director (CIPYP); 2011.
- Ad-hoc Reviewer Promotion to Senior Scientist Professors, University of Ben Gurion, Beer Sheva, Israel 2013
- Member of the Advisory Board of the Dean University of Buenos Aires (2014-2016)
- Selection Committee Assistant Professor Department of Molecular Physiology, Univ. of Buenos Aires 2014
- International Advisory Board Keystone Symposia (2015)
- Ad-hoc Reviewer Promotion to Associate Professor, University of California, San Diego 2015
- Member of the Latin American Council of the American Association of Cancer Research (2016-present)
- Grant Reviewer Kenneth Rainin Foundation, USA 2016, 2017, 2018, 2019, 2020
- Reviewer new members TWAS (Third World Academy of Science), 2016
- Ad-hoc Reviewer Promotion Associate Professor de Case University, USA, 2016
- Grant Reviewer Pancreatic Cancer Research Foundation UK; 2016
- Selection Committee Awards The Journal of Immunotherapy of Cancer, USA, 2016
- Grant Reviewer Israeli Ministry of Science and Technology, 2016
- Advisory Committee Warshaw Institute of Translational Medicine, Poland 2016
- Member of the Selection Committee "Konex Awards" 2017
- Member of the Selection Committee "National Academy of Sciences Award" Argentina 2017
- Member of the Selection Committee "Perfil Prizes" 2016, 2017, 2018, 2019, 2020

- Grant Reviewer Kenneth Rainin Foundation, USA 2017, 2018, 2019
- Grant Reviewer Netherlands Academy of Arts and Science, 2017
- Reviewer Teaching Plans Career of Biology, University of Buenos Aires 2017
- Grant Reviewer Israeli Scientific Foundation, 2018
- Reviewer Promotions to Professor, John Hopkins University, USA 2018
- Member of the Committee of New Members Election, National Academy of Sciences 2019
- Member of the Selection Committee "Houssay Awards" and "Investigator of the Nation" 2019
- Member of the Selection Committee "L'Oreal Prize for Women in Science" 2019
- Reviewer Promotion to Professors, Univ of Miami, FL 2019
- Reviewer Young TWAS Awards, Brazil 2019
- PhD thesis Advisory Committee for Santiago Zelenay (2002), Mariela Chertkoff (2002), Esteban Hoiyman (2002), Virginia Andreani (2005), Luis Ubillo (2006), Claudia Ruibal (2006), Virginia Pasquinelli (2007), Eugenia Riveiro (2008), Nidia Garnero (2008), Julie Nieminen (2008), Nicolás Amiano (2009), Ariel Quiroga (2009), Virginia Tribulatti (2009), Soledad Sosa (2009), Virginia Andreani (2010), Jimena Giudice (2011), Agustina Merlotti (2012), Sandra Carvalho (2015), Augusto Varese (2018).
- Grant Reviewer for the QBRI, National Biomedical Institute established by Qatar Foundation (<https://www.hbku.edu.qa/en/qbri>) 2020
- Evaluation of Fellows for the Royal Academy of Sciences, UK, 2021.
- Evaluation Associate Professor The Wistar Institute Philadelphia, USA, 2021
- Jury L'Oreal Prize, 2021
- Evaluation Post-doctoral Fellows EMBO 2022
- Advisory Board New Institute on Immuno-Oncology Warshaw, Poland 2022
- Grant Reviewer VENI Grants, The Netherlands, 2023
- Evaluation Academy Fellows, Wayne State University 2023

## 18. SOCIETY MEMBERSHIP

- Society for Glycobiology (SFG; USA)
- Latin American Society of Glycobiology (Mexico)
- American Association of Immunologists (AAI; USA)
- American Association of Cancer Research (AACR; USA)
- Argentinean Society of Immunology (SAI; Argentina)
- Latin American Association of Immunology (ALAI)
- Argentinean Society of Biology (SAB)
- European Research Institute for Integrated Cellular Pathology (ERI-ICP)
- Advisory Board International Society for Dendritic Cell and Vaccine Science
- Honorary Member, Royal College of Physicians (UK)
- Argentinean Society of Clinical Investigation (SAIC)
- Argentinean Society of Clinical Cancerology (SAC)
- Argentinean Society of Biochemistry and Molecular Biology (SAIB)
- British Society of Immunology (BSI) (Honorary Member)
- Latin American Regional Committee American Association of Cancer Research (AACR; USA)