



Nombres:

MARIO CÉSAR

Apellidos:

ROSEMBLATT SILBER

Contacto (Opcional):

mroseubl@uchile.cl

Título Profesional o Grado Académico (incluya el año de obtención):

- **BIOQUÍMICO, UNIVERSIDAD DE CHILE, 1966**
 - **PH.D., WAYNE STATE UNIVERSITY, DETROIT, USA, 1973**
-

Estudios de Postgrado o Especialización (institución donde lo obtuvo y año de obtención):

- **POSTDOCTORAL FELLOW, HARVARD MEDICAL SCHOOL, BOSTON, USA 1973**
-

Actividad Actual e Institución en la cual trabaja:

- **PROFESOR TITULAR DE LA UNIVERSIDAD DE CHILE. DEPARTAMENTO DE BIOLOGÍA, FACULTAD DE CIENCIAS.**
-

Reseña de su actividad laboral actual:

- | |
|--|
| <ul style="list-style-type: none">• Papel de las Células Dendríticas en la regulación del balance entre inmunidad y tolerancia. Regulación epigenética• Generación de linfocitos reguladores y su uso en trasplante de órganos• Estudios del sistema inmune del salmón |
|--|
- Lista de publicaciones indexadas en los últimos 10 años (indique índice: ISI, Scielo u otra).

PUBLICACIONES INDEXADAS: ULTIMOS 10 AÑOS

C. Doñas, M. Fritz, V. Manríquez, G. Tejón, M.R. Bono, M.A. Loyola and M. Roseblatt. "Trichostatin A promotes the generation and suppressive functions of regulatory T cells". *Clinical and Developmental Immunology*, Vol 2013, Article ID 679804, 8 pages, 2013. doi.org/10.1155/2013/679804.

PAULINA RUIZ, PAULA MALDONADO, YESSIA HIDALGO, ALEJANDRA GLEISNER, DANIELA SAUMA, JUAN JOSE SAEZ, SARAH NUÑEZ, MARIO ROSEMBLATT AND M. BONO. Transplant Tolerance: New Insights and Strategies for Long-Term Allograft Acceptance. *Clinical and Developmental Immunology*. (2013) Open Access Article. ID 210506

CRISTIAN DOÑAS, MACARENA FRITZ, VALERIA MANRÍQUEZ, GABRIELA TEJÓN, MARÍA ROSA

BONO, ALEJANDRA LOYOLA AND MARIO ROSEMBLATT. Trichostatin A promotes the generation and suppressive functions of regulatory T cells. *Clinical and Developmental Immunology* Accepted April (2013) Open Access Article. ID 679804

NUÑEZ S, SAEZ JJ, FERNANDEZ D, FLORES-SANTIBAÑEZ F, ALVAREZ K, TEJON G, RUIZ P, MALDONADO P, HIDALGO Y, MANRIQUEZ V, BONO MR, ROSEMBLATT M AND SAUMA D. Th17 cells contribute to anti-tumor immunity and promote the recruitment of th1 cells to the tumor. *Immunology* 139; 61-71 (2013)

GLEISNER MA. REYES P, ALFARO J, SOLANES P, SIMON V, CRISOSTOMO N, SAUMA D, ROSEMBLATT M AND BONO MR. Dendritic and stromal cells from the spleen of lupic mice present phenotypic and functional abnormalities. *Mol Immunol* 54;423-34 (2013)

PAULA MICHEA, PABLO VARGAS, MARIE-HÉLÈNE DONNADIEU. MARIO ROSEMBLATT, MARÍA ROSA, GUILLAUME DUMÉNIL AND VASSILI SOUMELIS. Epithelial control of the human pDC response to extracellular bacteria. *Eur. J. Immunol.* 43: 1–10 (2013)

LEIDY X. LAGOS , DIMITAR B. ILIEV, RONNY HELLAND, MARIO ROSEMBLATT, AND JORUNN B. JØRGENSEN. CD40L - An important Costimulatory molecule involved in the maturation of antigen presenting cells in Atlantic salmon (*Salmo salar* S.). *Developmental and Comparative Immunology* 38;416-430 (2012)

D. SAUMA, A. RAMIREZ, K. ALVAREZ, ,. Notch Signalling Regulates Cytokine Production by CD8+ and CD4+ T Cells. *Scandinavian Journal of Immunology* 75; 389-400 (2012)

JAIME DE CALISTO, EDUARDO J. VILLABLANCA, SEN WANG, MARIA R. BONO, MARIO ROSEMBLATT & J. RODRIGO MORA. T cell homing to the gut mucosa: General concepts and methodological considerations. In: *Integrin And Cell Adhesion Molecules: Methods And Protocols Series*. 757; 166-189 (2012)

EDUARDO J. VILLABLANCA, SEN WANG, JAIME DE CALISTO, DANIEL C.O. GOMES, MAUREEN A. KANE, JOSEPH L. NAPOLI, WILLIAM S. BLANER, HIROYUKI KAGECHIKA, RUNE BLOMHOFF, MARIO ROSEMBLATT, MARIA ROSA BONO, ULRICH H. VON ANDRIAN AND J. RODRIGO MORA. MyD88 and Retinoic Acid Signaling Pathways Interact to Modulate Gastrointestinal Activities of Dendritic Cells. *Gastroenterology* 141; 176-85 (2011)

DANIELA SAUMA, PABLO ESPEJO, ANDRÉS RAMÍREZ, ALBERTO FIERRO, MARIO ROSEMBLATT, MARÍA ROSA BONO. Differential regulation of Notch ligands in dendritic cells upon interaction with T helper cells. *Scand. J. Immunol*, 74(1); 62-70 (2011)

C. MOORE, C. FUENTES, D. SAUMA, J. MORALES, M.R. BONO, M. ROSEMBLATT, AND J.A. FIERRO. Retinoic Acid Generates Regulatory T Cells in Experimental Transplantation. *Transplantation Proceedings*, 43, 2334–2337 (2011)

M.A. GLEISNER, M. ROSEMBLATT, J.A. FIERRO, AND M.R. BONO. Delivery of Alloantigens via Apoptotic Cells Generates Dendritic Cells With an Immature Tolerogenic Phenotype. *Transplantation Proceedings*, 43, 2325–2333 (2011)

KARINA PINO-LAGOS, PAULA MICHEA, DANIELA SAUMA, ANDREA ALBA, JORGE MORALES, MARÍA ROSA BONO, ALBERTO FIERRO AND MARIO ROSEMBLATT. Cyclosporin A-treated Dendritic Cells may affect the outcome of organ transplantation by decreasing CD4+CD25+ regulatory T cell- *Biol. Res.* 43; 333-337 (2010)

JØRGENSEN TN, ALFARO J, ENRIQUEZ HL, JIANG C, LOO WM, ATENCIO S, BUPP MR, MAILLOUX CM, METZGER T, FLANNERY S, ROZZO SJ, KOTZIN BL, ROSEMBLATT M., BONO MR, ERICKSON LD. Development of murine lupus involves the combined genetic contribution of the SLAM and FcgammaR intervals within the Nba2 autoimmune susceptibility locus. *J Immunol.* 15; 775-86, 2010

C. MOORE, D. SAUMA, P. REYES, J. MORALES, M. ROSEMBLATT, M.R. BONO AND J.A. FIERRO. Dendritic Cells and B Cells Cooperate in the Generation of CD4+CD25+Foxp3+ Allogeneic T Cells. *Transplat. Proc.* 42; 371-5 (2010)

MOORE, C., SAUMA, D., MORALES, J., BONO, M. R., ROSEMBLATT, M., FIERRO, J. A. Transforming Growth Factor-beta and All-Trans Retinoic Acid Generate Ex Vivo Transgenic Regulatory T Cells With Intestinal Homing Receptors. *Transplat Proc.* 41; 2670-2 (2009)

RAUL ELGUETA, JAIME A. TOBAR, KENJI F. SHOJI, JAIME DE CALISTO, ALEXIS M. KALERGIS, MARIA R. BONO, MARIO ROSEMBLATT AND JUAN C. SÁEZ. Gap Junctions at the Dendritic Cell-T Cell Interface Are Key Elements for Antigen-Dependent T Cells Activation. *J. Immunol* 183; 277-84 (2009)

GABRIELLE FAURE-ANDRÉ, PABLO VARGAS, MARIA-ISABEL YUSEFF, MÉLINA HEUZÉ, JHEIMMY DIAZ, DANIELLE LANKAR, VERONICA STERI, JEREMY MANRY, STÉPHANIE HUGUES, FULVIA VASCOTTO, JÉRÔME BOULANGER, GRAÇA RAPOSO, MARIA-ROSA BONO, MARIO ROSEMBLATT, MATTHIEU PIEL AND ANA-MARIA LENNON-DUMÉNIL. CD74, the MHC class II-associated Invariant Chain,

regulates the motility and in vivo migration of dendritic cells. *Science* 322; 1705-1710 (2008).

MORALES, M.R. BONO, A. FIERRO, R. IÑIGUEZ, C. ZEHNDER, M. ROSEMBLATT, L. CALABRAN, C. HERZOG, D. BENAVENTE, J. AGUILÓ, J. PEFAUR, A. ALBA, M. FERRARIO, W. SIMON, L. CONTRERAS, AND E. BUCKEL. Alemtuzumab Induction in Kidney Transplantation: Clinical Results and Impact on T-Regulatory Cells. *Transplant Proceedings* 40; 3223-8 (2008)

ELGUETA, R. SEPULVEDA, F. E. VILCHES, F. VARGAS, L. MORA, J. R. BONO, M. R. ROSEMBLATT, M. Imprinting of CCR9 on CD4 T cells requires IL-4 signalling on mesenteric lymph node dendritic cells. *J. Immunol* 180; 6501-7 (2008)

TISCHLER, N. D. ROSEMBLATT, M. VALENZUELA, P. D. Characterization of cross-reactive and serotype-specific epitopes on the nucleocapsid proteins of hantaviruses. *Virus Research* 135; 1-9 (2008)

MICAH J. BENSON, KARINA PINO-LAGOS, MARIO ROSEMBLATT, AND RANDOLPH J. NOELLE. All-trans retinoic acid mediates enhanced Treg growth, differentiation and gut homing in the face of high levels of co-stimulation. *J. Exp. Med.* 204: 1765-74 (2007)

URETA G, OSORIO F, MORALES J, ROSEMBLATT M, BONO MR, FIERRO JA. Generation of dendritic cells with regulatory properties. *Transplant. Proc.* 39 (3):633-7 (2007).

BONO MR, ELGUETA R, SAUMA D, PINO K, OSORIO F, MICHEA, P, FIERRO A, ROSEMBLATT M. The essential role of chemokines in the selective regulation of lymphocyte homing. *Cytokine and Growth Factor Reviews.* 18: (1-2): 33-43 (2007)

WILHELM V, MIQUEL A, BURZIO LO, ROSEMBLATT M, ENGEL E, VALENZUELA S, PARADA G, VALENZUELA PDT. A vaccine against the salmonid pathogen *Piscirickettsia salmonis* based on recombinant proteins. *Vaccine* 24 (23): 5083-5091 (2006).

PABLO VARGAS, CLAUDIO CORTES, LEONARDO VARGAS, MARIO ROSEMBLATT, MARIA ROSA BONO. Immunization with antigen-pulsed dendritic cells significantly improves the immune response to weak self-antigens. *Immunobiology* 211: (2006) 29–36´.

NAVES, R., REYES, L., ROSEMBLATT, M., JACOBELLI, S., GONZÁLEZ, A., BONO, M.R. Lymphoid B cells induce NF-κB activation in high endothelial cells from human tonsils. *International Immunology* 18: 259-267 (2006).

N. TISCHLER, H. GALENO. M. ROSEMBLATT, P.D.T. VALENZUELA. Human and rodent humoral immune response to Andes virus structural proteins. *Virology* 334: 319-326 (2005).

V. WILHELM, C SOZA, R. MARTINEZ, M. ROSEMBLATT, L.O. BURZIO, P.D.T

VALENZUELA. Production and Immune Response of recombinant Hsp60 and Hsp70 from the salmon pathogen *Piscirickettsia salmonis*. *Biol Res.* 38: 69-82 (2005).

V. WILHELM, C MORALES, R. MARTINEZ, M. ROSEMBLATT, L.O. BURZIO, P.D.T VALENZUELA. Isolation and expression of the genes coding for the membrane bound transglycosidase B (MltB) and the transferrin binding protein B (TbpB) of the salmon pathogen *Piscirickettsia salmonis*. *Biol Res.* 37:783-793 (2005).

FIGUEROA. X. F, ALVINA. K, MARTINEZ. A. D, GARCES. G, ROSEMBLATT. M, BORIC. M. P, SAEZ, J. C. Histamine reduces gap junctional communication of human tonsil high endothelial cells in culture. *Microvasc. Res.* 28:247-257 (2004).

DANIELA SAUMA, PAULA MICHEA, ANA-MARÍA LENNON-DUMÉNIL, ALBERTO FIERRO, JORGE MORALES, MARIO ROSEMBLATT, AND MARÍA ROSA BONO. IL-4 Selectively Inhibits IL-2 Secretion by LPS-Activated Dendritic Cells. *Scandinavian J. Immunol.* 59:183-189 (2004).

PROYECTOS DE INVESTIGACIÓN: (últimos 10 años)

MECANISMOS QUE REGULAN LA EXPRESION DE RECEPTORES DE HOMING EN LINFOCITOS T – FONDECYT, 3 AÑOS. 2003

MODULACIÓN DEL HOMING EN EL SISTEMA INMUNE – FONDECYT, 4 AÑOS. 2006

REPROGRAMMING OF REGULATORY T CELLS IN GUT IMMUNITY – FONDECYT, 4 AÑOS. 2010

DESARROLLO DE UN MÉTODO INMUNOLÓGICO MEJORADO PARA EL SEXAJE DE SEMEN DE GANADO VACUNO – FONDEF, 3 AÑOS. 2009

PROYECTO DE FINANCIAMIENTO BASAL – CONICYT, 10 AÑOS. 2008

ACTUALIZACIÓN, MAYO 2014