

CURRICULUM VITAE

Name : **MARIA ROSA BONO**
Date of Birth : 25 June 1951
Nationality : chilean
Personal address : Camino de la Vocacion 6807, La Florida, Santiago, Chile.
Professional address : Departamento de Biología
Facultad de Ciencias, Universidad de Chile.
Casilla 653, Santiago.
Tel. : (562) 2978 7339
Fax : (562) 2271 3891
e-mail : mrbono@uchile.cl
Web page : www.inmunolab.cl

DEGREES

1974 Master in Sciences (Chemistry)
Faculty of Sciences, University of Chile.

1977 PhD in Sciences (Physical Chemistry)
Faculty of Sciences, University of Paris XI. France.

1979 Diploma of Immunology.
Pasteur Institute. París. Francia.

PROFESSIONAL ACTIVITY

- 1974-77 Fellowship of Departement du Rayonnement et Analyse.
Commissariat à l'Energie Atomique, Saclay, France.
- 1978-79 Research Associated. Service d'Immunoematologie, Centre
Hayem, Hopital St. Louis, Paris, France.
- 1979-80 Research Associated. Laboratoire de Physiologie Cellulaire,
Collège de France, Paris, France.
- 1980-83 Research Associated. Department of Biochemistry and Molecular
Biology, Harvard University, Cambridge, Mass., U.S.A.
- 1983-91 Research Associated. C.N.R.S. Centre National de Recherche
Scientifique. Unité d'Immunogénétique Humaine, Institut Pasteur,
Paris, France.
- 1991-2005 Associated Professor. Departamento de Biología, Facultad de
Ciencias. Universidad de Chile.
- 2006- Full Professor, Departamento de Biología, Facultad de Ciencias.
Universidad de Chile.

Teaching.

1. Course of Basic Immunology.

I currently teach immunology for undergraduate students from the career of Engineering in Molecular Biotechnology, Faculty of Science, University of Chile (BC-810). I designed the immunology course especially for biotechnology students, and I coordinate it since 1998. This course includes four modules: basic immunology, laboratory techniques currently used in immunology including classes on animals of experimentation, diseases of the immune system and seminars presented by all students. This course is attended by 30 to 40 students each year.

2. Experimental course of Immunology.

Along with the Course of Basic Immunology, I perform an experimental workshop that is elective for undergraduate students. This course has a limited capacity. Students from the Course of Basic Immunology must apply to attend this workshop. The workshop is conducted by myself and collaborators, and it is developed in the laboratory of immunology. During the course, students learn different techniques used in the laboratory. They learn how to work in sterility, do transfections of cell lines, ELISA, Western blotting, production of monoclonal antibodies, immunomagnetic selection of cell subpopulations and flow cytometry. We place special emphasis on flow cytometry due to the versatility of this technology. This course is attended by 16 students each year.

3. Advanced Course of Immunology.

This course is directed to students from several Ph.D. programs from the University of Chile or other Universities. This course starts with an intensive week of immunology where we hope that all students get similar levels of Immunology. Then the course continues with ten 2-hour sessions where the students must analyze works of the literature selected by issues related to basic immunology and immune response in health and disease. The works the students analyze come from journals such as Nature, Science, Nature Immunology, Immunity, etc. This course is attended by 15-20 students each year.

4. Other teaching.

Besides these courses, I am invited to participate in several courses in cell biology at the University of Chile, the Catholic University, and the Andres Bello University. Moreover, during the summer, I participate in courses for school professors.

5. Flow cytometry courses.

I teach basic and apply flow cytometry for medical or research centers. I learn flow cytometry in France at Pasteur Institute, and I run a Flow Cytometry facility in Chile since 1993 at the University of Chile. We have in the laboratory a FACSCanto II and a FACSAria III disponsible to everybody that needs to use this technology.

LIST OF PUBLICATIONS

1. L. Gilles, **M.R. Bono** and M. Schmidt. "Electron in cold alcohols: a pulse radiolysis study in ethanol". *Can. J. Chem.* 55, 2003-2008 (1977).
2. **M.R. Bono**. "Etude par radiolyse pulsée de la formation et de la réactivité de l'électron solvaté dans l'éthanol et le n-propanol à basses températures". Physical Chemistry Thesis. Published as NOTE-CEA-N°2014 (1977).
3. M. Fellous, M. Kamoun, I. Gresser and **R. Bono**. "Enhanced expression of HLA antigens and b₂-microglobulin on interferon treated cells". *Eur. J. Immunol.* 9, 446-449 (1979).
4. **R. Bono**, F. Hyafil, J. Kalil, V. Koblar, J. Wiels, E. Wolman, C. Mawas and M. Fellous. "Monoclonal antibodies against HLA-D, DRw antigens". *Transpl. Clin. Immunol.* Vol. XI, 109-117 (1979).
5. **R. Bono** and M. Fellous. "Methods of detection of H-Y antigen". *Pediatr. Adolesc. Endocr. MS 5-Vol. 8*, 29-39 (1980).
6. C. Roy, M. Roger, L. Boccon-Gibod, M. Fellous, **R. Bono**, J. Pasqualini and J.P. Harpey. "Clinical, cytological, histological, immunological and hormonal studies in a case of true hermaphroditism". *Clin. Endocr.* 12, 423-434 (1980).
7. P. Avner, **R. Bono**, M. Fellous and R. Berger. "Characterisation of five human teratoma cell lines for their developmental properties and expression of embryonic and major histocompatibility locus associated antigens". *J. Immunogen.* 8, 151-162 (1981).
8. **R. Bono**, J.P. Cartron, c; Mulet, P. Avner and M. Fellous. "Selective expression of blood group antigens on human teratocarcinoma cell lines". *Blood Transf. and Immunohematol.* 24, 97-107 (1981).
9. M. Fellous, **R. Bono**, F. Hyafil and I. Gresser. "Interferon enhances the amount of membrane bound b₂-microglobulin and its release from human Burkitt cells". *Eur. J. Immunol.* 11, 524-526 (1981).
10. **M.R. Bono**, and J.L. Strominger. "Direct evidence of homology between human DC-1 antigen and murine I-A molecules". *Nature* 299, 836-838 (1982).
11. D.W. Andrews, **M.R. Bono** and J.L. Strominger. "A homozygous human cell line contains three subsets of HLA-DR-Like antigens distinguishable by amino acid sequencing". *Biochem.* 21, 6625-6628 (1982).
12. C. Auffray, A.J. Korman, M. Roux-Dosseto, **R. Bono** and J.L. Strominger. "cDNA clone for the heavy chain of the human B cell alloantigen DC-1: Strong sequence homology to the HLA-DR heavy chain". *Proc. Natl. Acad. Sci. USA* 79, 6337-6341 (1982).

13. **M.R. Bono** and J.L. Strominger. "NH₂-terminal sequence of the a and b chains of human DC-1 antigen isolated from the JY cell line. Homology with murine I-A molecules". *Immunogenet.* 18, 453-459 (1983).
14. D.W. Andrews, **M.R. Bono**, J.F. Kaufman, P. Knudsen and J.L. Strominger. "Use of monoclonal antibody immunoaffinity columns to purify subsets of human HLA-DR antigens". *Methods in Enzymology*, Vol. 108, 600-606 (1984). Ed. G. di Sabato, J.J. Langone and H. van Yunakis, Academic Press, Inc.
15. **M.R. Bono**., V. Simons and M. Roseblatt. "Blocking of human T lymphocyte activation by channel antagonists". *Cell Biochem. Funct.* 7, 219-226 (1989).
16. **M.R. Bono**, P. Benech, C. Alcaide, P. Couillin, M.C. Grisard, H. Jouin, D. Fisher and M. Fellous. "Characterisation of the human IFN-g response using somatic cell hybrids of hematopoietic and non-hematopoietic origin. *Som. Cell Mol. Genet.* 15, 513-523 (1989).
17. C. Alcaide-Loridan, **M.R. Bono**, P. Benech, B. Letouzé, J. Chebath and M. Fellous. "Selection of mouse cells expressing an interferon-inducible hygromycin resistance : An approach for the cloning of the interferon-b receptor gene". *Meth. Mol. Cell. Biol.* 2, 52-58 (1990).
18. **M.R. Bono**, C. Alcaide-Loridan, P. Couillin, B. Letouzé, M.C. Grisard, H. Jouin and M. Fellous. "Human chromosome 16 encodes a factor involved in induction of class-II MHC antigens by interferon gamma". *Proc. Natl. Acad. Sci. (USA)* 88, 6077-6081 (1991).
19. **M.R. Bono**, C. Alcaide-Loridan, B. Letouzé, H. Jouin, S. J. P. Gobin and M. Fellous "The recombinant human interferon-g receptor is fully functional in a human x murine hybrid containing human chromosome 21." *Res. Immunol.* 142, 765-772 (1991).
20. J.M. Delabar, Z. Chettouh, Z. Rahmani, D. Theophile, J.L. Blouin, **R. Bono**, J. Kraus, J. Barton, D. Patterson and P.M. Sinet. "Gene-dosage mapping of 30 DNA markers on chromosome 21". *Genomics* 13, 887-889 (1992).
21. S.J.P. Gobin, C. Alcaide-Loridan, **M.R. Bono**, C. Ottone, I. Chumakov, R. Rothstein and M. Fellous. "Yeast artificial chromosome transfer into mammalian cells and comparative study of their integrity". *Gene* 163, 27-33 (1995).
22. A. Castro, **M.R. Bono**, V. Simon and M. Roseblatt. "Lymphocyte adhesion to endothelium derived human lymphoid tissue". *Eur. J. Cell Biology* 70, 61-68 (1996).
23. A.M. Lennon, C. Ottone, A. Peijninburg, Ch. Hamond-Benais, F. Colland, S. Gobin, M.P. van der Elsen, M. Fellous, **R. Bono** and C. Alcaide-Loridan. "The RAG cell line defines a new complementation group of MHC class II deficiency". *Immunogenetics* 43, 352-359 (1996).

24. A.M. Lennon, C. Ottone, A. Peijninburg, Ch. Hamond-Benais, F. Colland, S. Gobin, M. P. van der Elsen, M. Fellous, **R. Bono** and C. Alcaide-Loridan. "Isolation of a B cell-specific promoter for the human class II trans-activator" *Immunogenetics* 45, 266-273 (1997).
25. A. Castro, **M.R. Bono**, V. Simon, L. Vargas and M. Roseblatt. "Spleen-derived stromal cells. Adhesion molecules expression and lymphocyte adhesion to reticular cells". *Eur. J. Cell Biol.* 74, 321-328(1997).
26. A.M. Lennon, C. Ottone, M. Roseblatt, M. Fellous, **M.R. Bono** and C. Alcaide-Loridan. "CIITA B-cell-specific promoter suppression in MHC class II-silenced cell hybrids". *Immunogenet.* 48: 283-291 (1998)
27. R. Delgado. R. Davis, **M.R. Bono**, R. Latorre and P. Labarca. "Outward currents in *Drosophila* larval neurons: *dunce* lacks a maintained outward current component down regulated by cyclic AMP". *J. Neurosc.* 18, 1399-1407 (1998).
28. **Bono, M.R.**, Reyes, L.I. and M. Roseblatt. "A flow cytometric procedure for the quantification of cell adhesion in complex mixtures of cells". *J. Immunol. Meth.* 223: 27-36 (1999).
29. L. Salas-Cortes, F. Jaubert, S. Barbaux, C. Nessmann, **M.R. Bono**, M. Fellous, K. McElreavey and M. Roseblatt. "The human SRY protein is present in embryonic and adult Sertoli cells and germ cells" *Int. J. Dev. Biol.* 43: 135-140 (1999).
30. C. Alcaide-Loridan, A.M. Lennon, **M.R. Bono**, R. Barbouche, K. Dellagi and M. Fellous "Differential expression of the MHC class II isotype chains" *Microbes and infection* 1: 929-934 (1999).
31. P. Burgos, C. Metz, P. Bull, R. Pincheira, L. Massardo, C. Errázuriz, **M.R. Bono**, S. Jacobelli and A. González. "Increased expression of c-rel, from the NF-kB/Rel family, in T cells from patients with systemic lupus erythematosus". *J. Rheumatol.* 27: 116-127 (2000)
32. J.R. Mora, **M.R. Bono**, M. Roseblatt, S. Rodríguez, J. Morales, E. Buckel and A. Fierro. "CD4 and CD8 cytokine producing T cells are transiently reduced following cyclosporine intake: maximal inhibition occurs at two hours coincidental with drug Cmax". *Transplantation Proceedings* 33: 3310-3312 (2001).
33. L. Salas-Cortes, F. Jaubert, **M.R. Bono**, M. Fellous and M. Roseblatt. "Expression of the human SRY protein during development in normal male gonadal and sex-reversed tissues". *J Exp Zool.* 290: 607-15 (2001)
34. C. Hetz, **M.R. Bono**, L.F. Barros and R. Lagos. "Microcin E492, a channel forming bacteriocin from *Klebsiella pneumoniae*, induces apoptosis in some human cell lines". *PNAS* 99: 2696-2701 (2002).
35. R. Naves, A.M. Lennon, G. Barbieri, L. Reyes, G. Puga, L. Salas, V. Deffresnes, M.

- Rosemblatt, M. Fellous, D. Charron, C. Alacide-Loridan and **M.R. Bono**. "MHC class-II deficient tumor cell lines with a defective expression of the class-II transactivator (CIITA)". *Int. Immunol.* 14: 481-491 (2002).
36. G. Barbieri, V. Defresnes, T. Prod'homme, J. Vedrenne, F. Baton, C. Cortes, A. Fisher, **M.R. Bono**, B. Lisowska-Groszpiette, D. Charron and C. Alacide-Loridan. "Isoforms of the class II transactivator (CIITA) protein". *Int. Immunol.*, 14: 839-848 (2002).
 37. L.I. Reyes, P. Escobar, **M.R. Bono** and M. Rosemblatt. "Adhesion of B Lymphocyte to Endothelial Cells from Human Lymphoid Tissue Modulates Tyrosine Phosphorylation and Endothelial Cell Activation". *J. Immunol.* 169: 5881-5888 (2002)
 38. D. Sauma, J.R. Mora, A. Fierro, J. Morales, C. Herzog, E. Buckel, M. Rosemblatt and **M.R. Bono**. "Low-dose prednisone accounts for the marked reduction on CD4+ and CD8+ T cells in renal transplant patients under triple therapy". *Transplantation Proceedings* 34: 3183-3184, 2002.
 39. A. Fierro, J.R. Mora, **M.R. Bono**, J. Morales, E. Buckel, D. Sauma and M. Rosemblatt. "Dendritic cells and the mode of action of anticalcineurinic drugs. An integrating hypothesis" *Nephrology Dialysis Transplantation.* 18: 467-468 (2003).
 40. J.R. Mora, **M.R. Bono**, N. Manjunath, W. Weninger, L.L. Cavanagh, M. Rosemblatt and U. H. von Andrian. "Selective imprinting of gut-homing T cells by Peyer's patch dendritic cells". *Nature* 424: 88-93 (2003).
 41. D. Sauma, A. Fierro, J.R. Mora, A.M. Lennon-Dumenil, **M.R. Bono**, M. Rosemblatt and J. Morales. "Cyclosporine preconditions dendritic cells during differentiation and reduces IL-2 and IL-12 production following activation: a potential tolerogenic effect". *Transplantation Proceedings* 35: 2515-2517 (2003).
 42. M. Rosemblatt and **M.R. Bono**. "Functional consequences of immune cell adhesion to endothelial cells". *Current Pharmaceutical Design* 10: 109-120 (2004).
 43. D. Sauma, P. Michea, A.M. Lennon-Dumenil, A. Fierro, J. Morales, M. Rosemblatt and **M.R. Bono**. "Interleukin-4 selectively inhibits interleukin-2 secretion by lipopolysaccharide-activated dendritic cells". *Scandinavian Journal of Immunology* 59: 183-189 (2004).
 44. R. Naves, L.I. Reyes, S. Jacobelli, A. González, M. Rosemblatt and **M.R. Bono**. "Lymphoid cells induce NF- κ B activation in high endothelial cells from human tonsil". *International Immunology* 18: 259-267 (2006).
 45. P. Vargas, C. Cortés, L. Vargas, M. Rosemblatt and **M.R. Bono**. "Immunization with antigen-pulsed dendritic cells significantly improves the immune response to weak self-antigens" *Immunobiology* 211:29-36 (2006).

46. R.A Pinto, S.M. Arredondo, **M.R. Bono**, A.A. Gaggero and P.V. Díaz. "Th-1/Th-2 cytokine imbalance in respiratory syncytial virus infection is associated with increased endogenous plasma cortisol". *Pediatrics* 117: 878-886 (2006).
47. **M.R. Bono**, R. Elgueta, D. Sauma, K. Pino, F. Osorio, P. Michea, A. Fierro and M. Roseblatt. "The essential role of chemokines in the selective regulation of lymphocyte homing". *Cytokine and growth Factor Reviews* 18: 33-43 (2007).
48. G. Ureta, F. Osorio, J. Morales, M. Roseblatt, M.R. Bono and J.A. Fierro. "Generation of dendritic cells with regulatory properties". *Transplantation Proceedings* 39: 633-637 (2007).
49. V. Montecinos, P. Guzmán, V. Barra, M. Villagrán, C. Muñoz-Montecino, K. Sotomayor, E. Escobar, A. Godoy, L. Mardones, P. Sotomayor, C. Guzmán, O. Vásquez, V. Gallardo, B. Van Zundert, **M.R. Bono**, S.A. Oñate, M. Bustamante, J.G. Cárcamo, C.I. Rivas and J.C. Vera. "Vitamin C is an essential antioxidant that enhances survival of oxidatively stressed human vascular endothelial cells in the presence of a vast molar excess of glutathione" *J. Biol. Chem.* 282 (21): 15506-15515 (2007).
50. R. Elgueta, F.E. Sepulveda, F. Vilches, L. Vargas, J.R. Mora, **M.R. Bono** and M. Roseblatt. "Imprinting of CCR9 on CD4 T cells requires IL-4 signalling on mesenteric lymph node dendritic cells". *J. Immunol.* 180: 6501-6507 (2008).
51. J. Morales, **M.R. Bono**, A. Fierro, R. Iñiguez, C. Zehnder, M. Roseblatt, 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". *Transplantation Proceedings* 40(9): 3223-3228 (2008)
52. G. Faure-André, P. Vargas, M.I. Yuseff, J. Diaz, D. Lankar, V. Steri, J. Manry, S. Hugues, F. Vascotto, J. Boulanger, G. Raposo, **M.R. Bono**, M. Roseblatt, M. Piel and A.M. Lennon-Dumenil. "Regulation of dendritic cell migration by CD74, the MHC class II-associated invariant chain". *Science* 322: 1705- 1710 (2008).
53. R. Elgueta, J.A. Tobar, K.F. Shoji, J. De Calisto, A.M. Kalergis, **M.R. Bono**, M. Roseblatt and J.C. Sáez. "Gap junctions at the Dendritic Cell-T cell interface are key elements for antigen-dependent T cell activation" *J. Immunol.* 183 (1):277-284 (2009).
54. C. Moore, D. Sauma, J. Morales, **M.R. Bono**, M. Roseblatt and J.A. Fierro. "Transforming growth factor- β and all-trans retinoic acid generate ex vivo transgenic regulatory T cells with intestinal homing receptors" *Transplantation Proceedings* 41 (6): 2670-2672 (2009).
55. T.N. Jorgensen, J. Alfaro, H.L. Enriquez, W.M. Loo, S. Atencio, M.R. Gubbels Bupp, C. Mailloux, T. Metzger, S.Flannery, C. Ihekweazu, S.S. Rozzo, B.L. Kotzin, M. Roseblatt, **M.R. Bono** and L.D. Erickson. "Development of murine lupus involves the combined genetic contribution of the *SLAM* and *Fcgr* intervals within the *Nba2*

- susceptibility locus" *J. Immunol.* 184 (2): 775-786 (2010).
56. C. Moore, D. Sauma, P. Reyes, J. Morales, M. Roseblatt, J.A. Fierro and **M. R. Bono**. "Dendritic cells and B cells cooperate in the generation of CD4+CD25+Foxp3+ allogeneic T cells". *Transplantation Proceedings* 42 (1): 371-375 (2010).
 57. K. Pino-Lagos, P. Michea, D. Sauma, A. Alba, J. Morales, **M.R. Bono**, A. Fierro and M. Roseblatt. " Cyclosporin A-treated Dendritic Cells may affect the outcome of organ transplantation by decreasing CD4+CD25+ regulatory T cell proliferation ". *Biol. Res.* 43: 333-337 (2010).
 58. M.A. Gleisner, M. Roseblatt, J.A. Fierro and **M.R. Bono**. "Delivery of alloantigens via apoptotic cells generates dendritic cells with an immature tolerogenic phenotype".
 59. *Transplantation Proceedings* 43(6): 2325-2333 (2011). C. Moore, C. Fuentes, D. Sauma, J. Morales, **M.R. Bono**, M. Roseblatt and J.A. Fierro. "Retinoic acid generates regulatory T cells in experimental transplantation". *Transplantation Proceedings* 43(6): 2334-2337 (2011).
 60. D. Sauma, P. Espejo, A. Ramírez, A. Fierro, M. Roseblatt and **M.R. Bono**. "Differential regulation of Notch ligands on dendritic cells upon interaction with T helper cells". *Scan, J. Immunol.* 74: 62-70 (2011).
 61. E.J. Villablanca, S. Wang, J. De Calisto, D.C.O. Gomes, M.A. Kane, J.L. Napoli, W.S. Blaner, H. Kagechika, R. Blomhoff, M. Roseblatt, **M.R. Bono**, U.H. von Andrian and J.R. Mora. "MyD88 and retinoic acid signaling pathways interact to modulate gastrointestinal activities of dendritic cells". *Gastroenterology* 141: 176-185 (2011).
 62. J. De Calisto, E.J. Villablanca, S. Wang, **M.R. Bono**, M. Roseblatt and J.R. Mora. "T cell homing to the gut mucosa: General concepts and methodological considerations" Chapter 24 in "Integrin and cell adhesion molecules: Methods in Molecular Biology", Springer Science Business Media, Springer Protocols, Ed. M. Shimaoka, Vol. 757: 411-434 (2012).
 63. D. Sauma, A. Ramírez, K. Alvarez, M. Roseblatt and **M.R. Bono**. "Notch signaling regulates cytokine production by CD8+ and CD4+ T cells". *Scan, J. Immunol.* 75: 389-400 (2012).
 64. P.V. Diaz, R.A. Pinto, R. Mamani, P.A. Uasapud, **M.R. Bono**, A. Gaggero, J. Guerrero and A. Goecke. "Increased expression of the glucocorticoid receptor b in infants with RSV bronchiolitis". *Pediatrics* 130 (4): 804-811 (2012).
 65. M.A. Gleisner, P. Reyes, J. Alfaro, P. Solanes, V. Simon, N. Crisostomo, D. Sauma, M. Roseblatt and **M.R. Bono**. "Dendritic and stromal cells from the spleen of lupic mice present phenotypic and functional abnormalities". *Mol. Immunol.* 54: 423-434 (2013).

66. S. Nuñez, J.J. Sáez, D. Fernández, F. Flores-Santibáñez, K- Alvarez, G. Tejón, P. Ruiz, P. Maldonado, Y Hidalgo, V. Manriquez, **M.R. Bono**, M. Roseblatt and D. Sauma. "Th17 cells contribute to anti-tumor immunity and promote the recruitment of Th1 cells to the tumor". *Immunology* 139:61-71 (2013).
67. P. Michea, P. Vargas, M.H. Donnadieu, M. Roseblatt, **M.R. Bono**, G. Dumenil, V. Soumelis. "Epithelial control of the human pDC response to extracellular bacteria". *Eur. J. Immunol.* 43:1-10 (2013).
68. 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.
69. P. Ruiz, P. Maldonado, Y. Hidalgo, A. Gleisner, D. Sauma, C. Silva, J. J. Saez, S. Nuñez, M. Roseblatt and **M. R. Bono**. "Transplant tolerance: New Insights and strategies for long-term allograft acceptance". *Clin Developmental Immunol*, Vol. 2013, Article ID 210506, 15 pages, 2013. Doi.org/10.1155/2013/210506.
70. P.V. Diaz, A.A. Gaggero, R.A. Pinto, R. Mamani, P.A. Uasapud, **M.R. Bono**. "Aumento de interleuquinas proinflamatorias y de cortisol plasmático en bronquiolitis por virus respiratorio sincicial: relación con la gravedad de la infección." *Revista Médica de Chile* 141: 574-581 (2013). (SciELO).
71. C. Gonzalez-Silva, J. Vera, **M.R. Bono**, C. Gonzalez-Billault, B. Baxter, A. Hansen, R. Lopez, E.A. Gibson, D. Restrepo and J. Bacigalupo. "Ca²⁺-activated Cl⁻ channels of the ClCa family express in the cilia of a subset of rat olfactory sensory neurons". *PLOS ONE* July 2013, Vol. 8 (7): e69295. doi:10.1371/journal.pone.0069295.
72. S. S. Edwards, G. Zavala, C. P. Prieto, M. Elliott, S. Martínez, J. T. Egaña, **M. R. Bono** and V. Palma. "Functional Analysis Reveals Angiogenic Potential of Human Mesenchymal Stem Cells from Wharton's Jelly in Dermal Regeneration". *Angiogenesis*, Vol 17(4): 851-866 (2014). DOI 10.1007/s10456-014-9432-7.
73. C. Moore, G. Tejon, C. Fuentes, Y. Hidalgo, **M.R. Bono**, P. Maldonado, R. Fernandez, K.J. Wood, J. A. Fierro, M. Roseblatt, D. Sauma and A. Bushell. "Alloreactive regulatory T cells generated with retinoic acid prevent skin allograft rejection". *European Journal of Immunology* 45:452-463 (2015). DOI: 10.1002/eji.201444743.
74. G. Tejón, V. Manriquez, J. De Calisto, F. Flores, Y. Hidalgo, N. Crisostomo, D. Fernandez, D. Sauma, J.R. Mora, **M.R. Bono**, M. Roseblatt. "Vitamin A impairs the reprogramming of Treg into IL-17-producing cells during intestinal inflammation". *BioMed Research International* 2015, Article ID 137893, pp 1-8 (2015). DOI 10.1155/2015/137893.
75. **M. R. Bono**, D. Fernández, F. Flores-Santibáñez, M. Roseblatt and D. Sauma. "CD73 and CD39 ectonucleotidases in T cell differentiation: beyond

immunosuppression". In press, FEBS Letters, July 2015. DOI 10.1016/j.febslet.2015.07.027.

76. P.V. Diaz, G. Valdivia, A.A. Gaggero, **M.R. Bono**, G. Zepeda, M.Rivas, P. Usapud, R. Pinto, L. Boza, J. Guerrero. "Pro-inflammatory cytokines in nasopharyngeal aspirate from respiratory syncytial virus single and associated to rhinovirus bronchiolitis as predictor of illness severity". *Medicine* 94(39): 1-6, 2015.
77. F. Flores-Santibañez, D. Fernandez, D. Meza, G. Tejon, L. Vargas, L. Varela-Nallar, s. Arredondo, V. Guixé, M. Roseblatt, **M.R. Bono**, D. Sauma. "CD73-mediated adenosine production promotes stem cell-like properties in Tc17 cells". In press, *Immunology*, 2015. DOI: 10.1111/imm.12529.
78. M.N. Chávez, T.L. Schenck, U. Hopfner, C. Centeno-Cerdas, I. Somlai-Schweiger, C. Schwarz, H.G. Machens, M. Heikenwälder, **M.R. Bono**, M.L. Allende, J. Nickelsen, J.T. Egaña. "Towards Autotrophic Tissue Engineering: Photosynthetic Gene Therapy for Regeneration". *Biomaterials* 75: 25-36 (2015). DOI: 10.1016/j.biomaterials.2015.10.014

CHAPTERS IN BOOKS

1. P. Couillin, P. Métézeau, D. Hatat, **R. Bono**, M. Goldberg, M. Revel et M. Fellous. "La génétique moléculaire". Vol. 1, pp. 99-111 (1988). *La cytométrie en flux pour l'étude de la cellule normale ou pathologique*. Ed. P. Métézeau, X. Ronot, G. Le Noan-Merdignac et M.H. Ratinaud. Medsi/McGraw-Hill.
2. **M. R. Bono**. "Citoquinas". En: *Fundamentos de Inmunobiología*, Ed. I. Palomo, A. Ferreira, C. Sepúlveda, M. Roseblatt y U. Vergara. Ed. Universidad de Talca, Talca, Chile (1998).
3. V. Simon y **M.R. Bono**. "La citometría de flujo: principios básicos y sus aplicaciones". En: *Fundamentos de Inmunobiología*, Ed. I. Palomo, A. Ferreira, C. Sepúlveda, M. Roseblatt y U. Vergara. Ed. Universidad de Talca, Talca, Chile (1998).
4. R. Naves y **M. R. Bono**. "Citoquinas" Capítulo 11. En: *Fundamentos de Inmunología Básica y Clínica*, Ed. I. Palomo, A. Ferreira, C. Sepúlveda, M. Roseblatt y U. Vergara. Ed. Universidad de Talca, Talca, Chile (2002).
5. **M.R. Bono** y V. Simon. "La citometría de flujo: principios básicos y sus aplicaciones". Capítulo 23. En: *Fundamentos de Inmunología Básica y Clínica*, Ed. I. Palomo, A. Ferreira, C. Sepúlveda, M. Roseblatt y U. Vergara. Ed. Universidad de Talca, Talca, Chile (2002).
6. J. De Calisto, E.J. Villablanca, S. Wang, **M.R. Bono**, M. Roseblatt and J.R. Mora. "T cell homing to the gut mucosa: General concepts and methodological

considerations" Chapter in "Integrin and cell adhesion molecules: Methods and protocols" In press 2010.