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EDUCATION

- 2003-2007 Doctoral studies
 Academic Medical Center
 University of Amsterdam, Amsterdam, The Netherlands.
- 2001 Professional degree in Biochemistry
 Faculty of Biological Sciences
 Universidad Católica de Chile, Santiago, Chile.
- 1998 Licentiate in Biochemistry
 Faculty of Biological Sciences
 Universidad Católica de Chile, Santiago, Chile.

PROFESSIONAL EXPERIENCE

- 2012 Research Scientist
 Department of Nutrition, Diabetes and Metabolism, School of Medicine
 Universidad Católica de Chile, Santiago, Chile.
- 2010-2012 Research Specialist
 Janelia Farm Research Campus
 Howard Hughes Medical Institute, Ashburn, VA, USA.
- 2007-2010 Postdoctoral Fellow
 Max Planck Institute of Biochemistry, Martinsried, Germany.
- 2001-2003 Research Assistant
 Gastroenterology Department, School of Medicine
 Universidad Católica de Chile, Santiago, Chile.

TEACHING EXPERIENCE

- 1997-2000 Teaching Assistant. Molecular and Cell Biology.
 School of Medicine.
 Universidad Católica de Chile, Santiago, Chile.

PUBLICATIONS

Licentiate Thesis:

Mardones P. Hepatic cholesterol and bile acid metabolism in scavenger receptor class B type I (SR-BI)-deficient mice. Facultad de Ciencias Biológicas. Universidad Católica de Chile (2001).

Peer Reviewed:

1. Amigo, L., Quiñones V., **Mardones, P.**, Zanlungo, S., Miquel, J. F., Nervi, F., Rigotti, A. Impaired biliary cholesterol secretion and decreased gallstone formation in apolipoprotein E-deficient mice fed a high-cholesterol diet. *Gastroenterology* 118: 772-779 (2000).
2. **Mardones, P.**, Quiñones, V., Amigo, L., Moreno, M., Miquel, J., Schwarz, M., Miettinen, H., Trigatti, B., Krieger, M., Van Patten, S., Cohen, D., Rigotti, A. Hepatic cholesterol and bile acid metabolism and intestinal cholesterol absorption in scavenger receptor class B type I (SR-BI)-deficient mice. *Journal of Lipid Research* 42: 170-180 (2001).
3. **Mardones, P.**, Strobel, P., Miranda, S., Leighton, F., Quiñones, V., Amigo, L., Rozowski, J., Krieger, M., Rigotti, A. Abnormal alpha-tocopherol metabolism in scavenger receptor class B type I (SR-BI)-deficient mice. *Journal of Nutrition* 132: 443-449 (2002).
4. Amigo, L., **Mardones, P.**, Ferrada, C., Quiñones, V., Nervi, F., Miquel, J. F., Rigotti, A. Biliary lipid secretion, bile acid metabolism, and gallstone formation are not impaired in hepatic lipase-deficient mice. *Hepatology* 38: 726-734 (2003).
5. **Mardones, P.**, Pilon, A., Bouly, M., Duran, D., Arai, H., Kozarsky, K. F., Gonzalez, F., Altayo, M., Miquel, J. F., Luc, G., Clavey, V., Staels, B., Rigotti, A. Fibrates down-regulate hepatic scavenger receptor class B type I (SR-BI) protein expression in mice. *Journal of Biological Chemistry* 278: 7884-7890 (2003).
6. Miquel, J. F., Moreno, M., Amigo, L., Molina, H., **Mardones, P.**, Wistuba, I., Rigotti, A. Expression and regulation of scavenger receptor class B type I (SR-BI) in gallbladder epithelium. *Gut* 52: 1017-1024 (2003).
7. **Mardones, P.**, Rigotti, A. Cellular mechanisms of vitamin E uptake: relevance in alpha-tocopherol metabolism and potential implications for disease. *Journal of Nutritional Biochemistry* 15: 252-260 (2004).
8. Recalde, S., Muruzabal, F., Looije, N., Kunne, C., Burrell, M. A., Saez, E., Martinez-Anso, E., Salas, J. T., **Mardones, P.**, Prieto, J., Medina, J. F., Elferink, R. P. Inefficient Chronic Activation of Parietal Cells in $Ae2_{a,b}^{-/-}$ Mice. *American Journal of Pathology* 169: 165-76 (2006).
9. Lyaruu, D. M., Bronckers, A. L. J. J., Mulder, L., **Mardones, P.**, Medina, J. F., Kellokumpu, S., Oude Elferink, R. P. J., Everts, V. The anion exchanger Ae2 is required for enamel maturation in mouse teeth. *Matrix Biology* 27: 119-127 (2008).
10. **Mardones, P.**, Medina, J. F., Oude Elferink, R. P. J. Activation of cAMP signaling in Ae2-deficient mouse fibroblasts. *Journal of Biological Chemistry* 283: 12146-12153 (2008).
11. Jansen, I. D. C., **Mardones, P.**, de Vries, T. J., Recalde, S., Hoeben, K. A., Schoenmaker, T., Ravesloot, J-H., van Borren, M. M. G. J., van Eijden, T. M., Bronckers, A. L. J. J., Kellokumpu, S., Lecanda, F., Medina, J. F., Everts, V., Oude Elferink, R. P. J. $Ae2_{a,b}$ -deficient mice exhibit osteopetrosis of long bones but not of calvaria. *FASEB Journal* 23: 3470-3481(2009).
12. Cortés, V., Busso, D., **Mardones, P.**, Maiz, A., Arteaga, A., Nervi, F., Rigotti, A. Advances in the physiological and pathophysiological implications of cholesterol. *Biological Reviews*, in press doi: 10.1111/brv.12025 (2013).

INTERNATIONAL CONFERENCE ABSTRACTS

1. **Mardones, P.**, Quiñones, V., Amigo, L., Moreno, M., Miquel, J., Schwarz, M., Miettinen, H., Trigatti, B., Krieger, M., Van Patten, S., Cohen, D., Rigotti, A. Hepatic cholesterol and bile acid metabolism and intestinal cholesterol absorption in scavenger receptor class B type I (SR-BI)-deficient mice. *Gastroenterology* 120 (Suppl.1): A65 (2001).
2. Cortes, V., Quezada, N., Riano, C., Donoso, K., **Mardones, P.**, Amigo, L., Zanlungo, S., Brandan, E., Rigotti, A. Recombinant adenovirus-mediated functional expression and heterodimeric nuclear receptor-dependent regulation of syndecan-1 in the murine liver: Implications in cholesterol metabolism. *Gastroenterology* 128 (Suppl. 2): A370 (2005).
3. **Mardones, P.**, Medina, J., Prieto, J., Oude Elferink, R. O. The role of anion exchanger 2 (Ae2) in bile secretion. Annual Meeting of the Dutch Society for Hepatology, Veldhoven, The Netherlands (2005).
4. **Mardones, P.**, Farese, R. V. Jr., Walther, T. C. A model of inducible lipid droplet assembly in *S. Cerevisiae*. 9th Yeast Lipid Conference, Berlin, Germany (2009).