



Dr. Christian Ivan Pérez Shibayama

**Post Doctoral fellow
scientist (post doc)**

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Units

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Position

Post Doctoral fellow

Profile Function

scientist (post doc)

Publications (30)

Cadosch N, Gil Cruz C, Pérez Shibayama C, Ludewig B. Cardiac Fibroblastic Niches in Homeostasis and Inflammation. *Circ Res* 2024; 134:1703–1717.

Pérez Shibayama C, Gil Cruz C, Cadosch N, Lütge M, Cheng H, De Martin A, Frischmann K, Joachimbauer A, Onder L, Papadopoulou I, Papadopoulou C, Ring S, Krebs P, Vu V, Nägele M, Rosi V, Parianos D, Zsilavec V, Cooper L, Flammer A, Ruschitzka F, Reiner P, Schmidt D, Ludewig B. Bone morphogenetic protein-4 availability in the cardiac microenvironment controls inflammation and fibrosis in autoimmune myocarditis. *Nature Cardiovascular Research* 2024; volume 3:301–316.

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Pérez Shibayama C, Gil Cruz C, Ludewig B. Fibroblasts tune myocardial inflammation and remodeling. *Nature Cardiovascular Research* 2022; 1:694–695.

Cheng H, Scandella E, Hehlhans T, Pérez Shibayama C, Gil Cruz C, Novkovic M, Onder L, Engetschwiler C, Lütge M, Mörbe U, Ludewig B. Intestinal fibroblastic reticular cell niches control innate lymphoid cell homeostasis and function. *Nat Commun* 2022; 13:2027.

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Pikor N, Onder L, Linterman M, Nagasawa T, Nombela-Arrieta C, Cheng H, Novkovic M, Pérez Shibayama C, Gil Cruz C, Lütge M, Mörbe U, Ludewig B. Remodeling of light and dark zone follicular dendritic cells governs germinal center responses. *Nat Immunol* 2020; 21:649–659.

Valero-Pacheco N, Klenerman P, Reyes-Sandoval A, Isibasi A, Pastelin-Palacios R, Sánchez-Torres L, Gil Cruz C, Pérez Shibayama C, Kurioka A, Wong-Baeza I, Pérez-Toledo M, Kemlo P, Aldapa-Vega G, Blight J, López-Macías C. Conservation of the OmpC Porin Among Typhoidal and Non-Typhoidal Serovars. *Front Immunol* 2020; 10:2966.

Li C, Ludewig B, Martin A, Liao S, He H, Navarre W, Sun T, Rojas O, Korneev K, Brownlie E, Ahmed M, Nguyen A, Lee D, Zhang J, Ward L, Pérez Shibayama C, Lam E, Gommerman J. Early-life programming of mesenteric lymph node stromal cell identity by the lymphotoxin pathway regulates adult mucosal immunity. *Sci Immunol* 2019; 4

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Gil Cruz C, Jahns R, Wyss M, Mooser C, Lambrecht B, Maeder M, Rickli H, Flatz L, Eriksson U, Geuking M, McCoy K, Boivin-Jahns V, Slack E, Arnoldini M, Pérez Shibayama C, De Martin A, Ronchi F, Van der Borgh K, Niederer R, Onder L, Lütge M, Novkovic M, Nindl V, Ramos G, Ludewig B. Microbiota-derived peptide mimics drive lethal inflammatory cardiomyopathy. *Science* 2019; 366:881-886.

Colston J, Hutchings C, Chinnakannan S, Highton A, Pérez Shibayama C, Ludewig B, Klenerman P. Divergent memory responses driven by adenoviral vectors are impacted by epitope competition. *Eur J Immunol* 2019

Pérez Shibayama C, Gil Cruz C, Ludewig B. Fibroblastic reticular cells at the nexus of innate and adaptive immune responses. *Immunol Rev* 2019; 289:31-41.

Fässler M, Jörgler M, Recher M, Risch L, Güsewell S, Risch M, Speiser D, Ludewig B, Levesque M, Dummer R, Siano M, Krolik M, Diem S, Mangana J, Hasan Ali O, Berner F, Bomze D, Ring S, Niederer R, Gil Cruz C, Pérez Shibayama C, Flatz L. Antibodies as biomarker candidates for response and survival to checkpoint inhibitors in melanoma patients. *J Immunother Cancer* 2019; 7:50.

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Carreño J, Pérez Shibayama C, Gil Cruz C, López-Macías C, Vernazza P, Ludewig B, Albrich W. Evolution of Salmonella Typhi outer membrane protein-specific T and B cell responses in humans following oral Ty21a vaccination: A randomized clinical trial. *PLoS one* 2017; 12:e0178669.

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Gil Cruz C, Scandella E, Ikuta K, Cui G, Abe S, McCoy K, Geuking M, Lang P, Novkovic M, Cheng H, Cupovic J, Chai Q, Onder L, Pérez Shibayama C, Ludewig B. Fibroblastic reticular cells regulate intestinal inflammation via IL-15-mediated control of group 1 ILCs. *Nat Immunol* 2016; 17:1388-1396.

Carreño J, Gander B, López-Macías C, Tanoue Y, Chariatte D, Isibasi A, Pastelin R, Printz A, Gil Cruz C, Pérez Shibayama C, Ludewig B. PLGA-microencapsulation protects Salmonella typhi outer membrane proteins from acidic degradation and increases their mucosal immunogenicity. *Vaccine* 2016; 34:4263-9.

Cupovic J, Onder L, Gil Cruz C, Weiler E, Caviezel-Firner S, Pérez Shibayama C, Rüllicke T, Bechmann I, Ludewig B. Central Nervous System Stromal Cells Control Local CD8(+) T Cell Responses during Virus-Induced Neuroinflammation. *Immunity* 2016; 44:622-33.

Pérez Shibayama C, Ludewig B. Tuning up FALCs: immunological shielding in the body cavities. *Nat Immunol* 2015; 16:796-8.

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Adan M, Edmundo C, Isibasi A, Cecilia B, Marcos F, Isabel B, Rubén L, Gil Cruz C, Pérez Shibayama C, Pastelin-Palacios R, Alejandra T, López-Macías C. Salmonella Typhi OmpS1 and OmpS2 porins are potent protective immunogens with adjuvant properties. *Immunology* 2013

Pastelin-Palacios R, Isibasi A, Gunn J, Bonifaz L, Alpuche-Aranda C, Becker I, García-Zepeda E, Cunningham A, Ludewig B, Arriaga-Pizano L, Cervantes-Barragan L, Moreno-Eutimio M, Pérez Shibayama C, Gil Cruz C, López-Macías C. Subversion of innate and adaptive immune activation induced by structurally modified lipopolysaccharide from Salmonella typhimurium. *Immunology* 2011; 133:469-81.

Projects (6)

Defining the origin of lymph node and Peyer's patch fibroblastic reticular cells at single cell resolution

Fundamental Research - Apr 1, 2016 - Mar 31, 2019

Automatically Closed

Impact of omental fibroblastic stromal cells on the induction of anti-bacterial immunity

Fundamental Research - Oct 1, 2015 - Sep 30, 2016

Automatically Closed

"Mechanisms of Evasive Resistance in Cancer (MERiC)"

Clinical Studies - Nov 1, 2014 - Nov 1, 2020

Automatically Closed

Selection and education of heart-specific Th cells by thymic and lymph node stromal cells

Fundamental Research - Apr 1, 2013 - Mar 31, 2016

Completed

Systems immunological analysis of lymph node structure and function in viral infection

Fundamental Research - Aug 1, 2012 - Jul 31, 2016

Completed

Polyvalent vaccine against Salmonellosis

Fundamental Research - Nov 1, 2011 - Apr 30, 2013

Completed