



## **Dr. Christian Ivan Pérez Shibayama**

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

**Medizinisches Forschungszentrum · Management**

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### **Units**

Medizinisches Forschungszentrum

### **Position**

Post Doctoral fellow

### **Profile Function**

scientist (post doc)

## Publications (29)

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, P. Vu V, P. Nägele M, Rosi V, Parianos D, Zsilavec V, Cooper L, Flammer A, Ruschitzka F, Reiner P, Schmidt D, Ludewig B. Bone morphogenic 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.

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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.

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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.

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Chai Q, Hehlhans T, Stein J, Rülcke T, Thiel V, Luther S, Sparwasser T, Danuser R, Cupovic J, Pérez Shibayama C, Gil Cruz C, Scandella E, Onder L, Ludewig B. Maturation of lymph node fibroblastic reticular cells from myofibroblastic precursors is critical for antiviral immunity. *Immunity* 2013; 38:1013-24.

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## 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*