



## Dr. Christian Perez Shibayama

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### Bereiche

Medizinisches Forschungszentrum

### Funktion

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## Publikationen (27)

D'Rozario J, Knoblich K, Lütge M, Perez Shibayama C, Cheng H, Alexandre Y, Roberts D, Campos J, Dutton E, Suliman M, Denton A, Turley S, Boyd R, Mueller S, Ludewig B, Heng T, Fletcher A. Fibroblastic reticular cells provide a supportive niche for lymph node-resident macrophages. *Eur J Immunol* 2023; 53:e2250355.

Lütge M, De Martin A, Gil Cruz C, Perez Shibayama C, Stanossek Y, Onder L, Cheng H, Kurz L, Cadosch N, Soneson C, Robinson M, Stöckli S, Ludewig B, Pikor N. Conserved stromal-immune cell circuits secure B cell homeostasis and function. *Nat Immunol* 2023

Cheng H, Scandella E, Hehlweg T, Perez 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.

Ring S, Spiegl M, Besse A, Bonilla W, Stemeseder F, Schmidt S, Orlinger K, Krebs P, Ludewig B, Wenger R, Hartmann F, Cupovic J, Onder L, Lütge M, Perez Shibayama C, Gil Cruz C, Scandella E, De Martin A, Mörbe U, Flatz L. Viral vector-mediated reprogramming of the fibroblastic tumor stroma sustains curative melanoma treatment. *Nat Commun* 2021; 12:4734.

Prados A, Ludewig B, Koliaraki V, Perez Shibayama C, Gil Cruz C, Lütge M, Mörbe U, Cheng H, Onder L, Kollias G. Fibroblastic reticular cell lineage convergence in Peyer's patches governs intestinal immunity. *Nat Immunol* 2021; 22:510–519.

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Valero-Pacheco N, Kleinerman P, Reyes-Sandoval A, Isibasi A, Pastelin-Palacios R, Sánchez-Torres L, Gil Cruz C, Perez 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, Perez 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

Brenig R, Antoniades C, Wendon J, Heim M, Ludewig B, Weston C, Duong F, Semela D, Brand S, Boldanova T, Künzler-Heule P, Cupovic J, Besse L, Perez Shibayama C, Singanayagam A, Geng A, Triantafyllou E, Pop O, Bernsmeier C. Expression of AXL receptor tyrosine kinase relates to monocyte dysfunction and severity of cirrhosis. *Life Sci Alliance* 2019; 3

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, Perez Shibayama C, De Martin A, Ronchi F, Van der Borght 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, Perez Shibayama C, Ludewig B, Klenerman P. Divergent memory responses driven by adenoviral vectors are impacted by epitope competition. *Eur J Immunol* 2019;

Perez 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, Jörger 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, Perez Shibayama C, Flatz L. Antibodies as biomarker candidates for response and survival to checkpoint inhibitors in melanoma patients. *J Immunother Cancer* 2019; 7:50.

Perez Shibayama C, Gommerman J, Scandella E, Robinson M, Soneson C, Mack M, Turley S, Buechler M, López-Macías C, Li C, Novkovic M, Mörbe U, Printz A, Onder L, Cheng H, Gil Cruz C, Ludewig B. Fibroblastic reticular cells initiate immune responses in visceral adipose tissues and secure peritoneal immunity. *Sci Immunol* 2018; 3:

Carreño J, Perez 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.

Pérez-Toledo M, Bonifaz L, Isibasi A, Cunningham A, Arriaga-Pizano L, Pérez-Tapia S, Becker I, Moreno-Eutimio M, Perez Shibayama C, Gil Cruz C, Pastelin-Palacios R, Valero-Pacheco N, López-Macías C. *Salmonella Typhi* Porins OmpC and OmpF Are Potent Adjuvants for T-Dependent and T-Independent Antigens. *Front Immunol* 2017; 8:230.

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, Perez 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, Perez 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, Perez Shibayama C, Rülicke 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.

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

Perez Shibayama C, Gil Cruz C, Ludewig B. Plasticity and complexity of B cell responses against persisting pathogens. *Immunol Lett* 2014; 162:53-8.

Perez Shibayama C, López-Macías C, Isibasi A, Waisman A, Regen T, Scandella E, Onder L, Chai Q, Hisaki E, Cervantes-Barragan L, Pastelin-Palacios R, Gil Cruz C, Ludewig B. IFN-γ-producing CD4+ T cells promote generation of protective germinal center-derived IgM+ B cell memory against *Salmonella Typhi*. *J Immunol* 2014; 192:5192-200.

Perez Shibayama C, Gil Cruz C, Nussbacher M, Allgäuer E, Cervantes-Barragan L, Züst R, Ludewig B. Dendritic cell-specific delivery of Flt3L by coronavirus vectors secures induction of therapeutic antitumor immunity. *PloS one* 2013; 8:e81442.

Chai Q, Hehlgans T, Stein J, Rülicke T, Thiel V, Luther S, Sparwasser T, Danuser R, Cupovic J, Perez 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.

Adan M, Edmundo C, Isibasi A, Cecilia B, Marcos F, Isabel B, Rubén L, Gil Cruz C, Perez 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, Perez 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.

## Projekte (6)

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

*Grundlagenforschung - 01.04.2016 - 31.03.2019*

*Automatisch geschlossen*

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

*Grundlagenforschung - 01.10.2015 - 30.09.2016*

*Automatisch geschlossen*

**"Mechanisms of Evasive Resistance in Cancer (MERiC)"**

*Klinische Forschung - 01.11.2014 - 01.11.2020*

*Automatisch geschlossen*

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

*Grundlagenforschung - 01.04.2013 - 31.03.2016*

*Abgeschlossen*

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

*Grundlagenforschung - 01.08.2012 - 31.07.2016*

*Abgeschlossen*

**Polyvalent vaccine against Salmonellosis**

*Grundlagenforschung - 01.11.2011 - 30.04.2013*

*Abgeschlossen*