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Units

Institute of Immunobiology

Publications (9)

Cheng H, Scandella E, Hehlhans 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.

Cosgrove J, Uguccioni M, Legler D, Lacey C, Coatesworth A, Polak W, Cupedo T, Manoury B, Thelen M, Stein J, Wolf M, Leake M, Timmis J, Ludewig B, Heller M, Venetz D, Taylor E, Novkovic M, Albrecht S, Pikor N, Zhou Z, Onder L, Mörbe U, Cupovic J, Miller H, Alden K, Thuery A, O'Toole P, Pinter R, Jarrett S, Coles M. B cell zone reticular cell microenvironments shape CXCL13 gradient formation. *Nat Commun* 2020; 11:3677.

Pikor N, Onder L, Linterman M, Nagasawa T, Nombela-Arrieta C, Cheng H, Novkovic M, Perez 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.

Denton A, Good-Jacobson K, Groom J, Ludewig B, Mörbe U, Mabbott N, Lafouresse F, Bradford B, Carr E, Innocentin S, Linterman M. Type I interferon induces CXCL13 to support ectopic germinal center formation. *J Exp Med* 2019

Perez Shibayama C, Gommerman J, Scandella E, Robinson M, Sonesson 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

Bösch M, Knauer M, Ruhstaller T, Jochum W, Gastl G, Soppor S, Mörbe U, Novkovic M, Cheng H, Onder L, Ludewig B. Interleukin 7-expressing fibroblasts promote breast cancer growth through sustenance of tumor cell stemness. *Oncoimmunology* 2018; 7:e1414129.

Onder L, Scandella E, Sawa S, Mueller C, Gommerman J, Rülcke T, Waisman A, Becher B, Pfeffer K, Hehlhans T, Cheng H, Novkovic M, Pikor N, Mörbe U, Ludewig B. Lymphatic Endothelial Cells Control Initiation of Lymph Node Organogenesis. *Immunity* 2017; 47:80–92.e4.

Projects (3)

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

Stroma Cell- Immune Cell Interactions in Health and Disease

Fundamental Research - Jan 1, 2012 - Dec 31, 2015

Completed

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