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**Units**

Institute of Immunobiology

## Publications (17)

Purde M, Cupovic J, Palmowski Y, Makky A, Schmidt S, Rochwarger A, Hartmann F, Stemeseder F, Lercher A, Abdou M, Bomze D, Besse L, Berner F, Tüting T, Hölzel M, Bergthaler A, Kochanek S, Ludewig B, Lauterbach H, Orlinger K, Bald T, Schietinger A, Schürch C, Ring S, Flatz L. A replicating LCMV-based vaccine for the treatment of solid tumors. *Mol Ther* 2023

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De Martin A, Lütge M, Stanossek Y, Engetschwiler C, Cupovic J, Brown K, Demmer I, Broglie M, Geuking M, Jochum W, McCoy K, Stöckli S, Ludewig B. Distinct microbial communities colonize tonsillar squamous cell carcinoma. *Oncoimmunology* 2021; 10:1945202.

Cupovic J, Klenerman P, Engeler D, Krebs P, Scandella E, Oxenius A, Flatz L, Provine N, De Martin A, Cheng H, Lütge M, Colston J, Onder L, Ring S, Ludewig B. Adenovirus vector vaccination reprograms pulmonary fibroblastic niches to support protective inflating memory CD8 T cells. *Nat Immunol* 2021; 22:1042-1051.

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Pikor N, Cupovic J, Onder L, Gommerman J, Ludewig B. Stromal Cell Niches in the Inflamed Central Nervous System. *J Immunol* 2017; 198:1775-1781.

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.

Novkovic M, Turley S, Bocharov G, Stein J, Scandella E, Cremasco V, Bomze D, Abe J, Cupovic J, Onder L, Ludewig B. Topological Small-World Organization of the Fibroblastic Reticular Cell Network Determines Lymph Node Functionality. *PLoS Biol* 2016; 14:e1002515.

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Bhattacharya A, Arnold I, Flatz L, Xu H, Lang P, Aderem A, Takaoka A, Superti-Furga G, Colinge J, Ludewig B, Löhning M, Baazim H, Khamina K, Panse I, Hegazy A, Deigendesch N, Kosack L, Cupovic J, Kandasamy R, Hildebrandt A, Merkler D, Köhl A, Vilagos B, Schliehe C, Bergthaler A. Superoxide Dismutase 1 Protects Hepatocytes from Type I Interferon-Driven Oxidative Damage. *Immunity* 2015; 43:974–86.

Moalli F, Cupovic J, Thelen F, Halbherr P, Fukui Y, Narumiya S, Ludewig B, Stein J. Thromboxane A2 acts as tonic immunoregulator by preferential disruption of low-avidity CD4+ T cell-dendritic cell interactions. *J Exp Med* 2014; 211:2507–17.

Cremasco V, Carroll M, Ludewig B, Wucherpfennig K, Harvey C, Cremasco F, Chang J, Schildberg F, Nieves-Bonilla J, Cupovic J, Onder L, Woodruff M, Turley S. B cell homeostasis and follicle confines are governed by fibroblastic reticular cells. *Nat Immunol* 2014; 15:973–81.

Luzyanina T, Cupovic J, Ludewig B, Bocharov G. Mathematical models for CFSE labelled lymphocyte dynamics: asymmetry and time-lag in division. *J Math Biol* 2013

Bocharov G, Luzyanina T, Cupovic J, Ludewig B. Asymmetry of Cell Division in CFSE-Based Lymphocyte Proliferation Analysis. *Front Immunol* 2013; 4:264.

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.

## Projects (6)

### **Dissecting the association of the human palatine tonsil microbiome and HPV-driven oropharyngeal squamous cell carcinoma**

*Fundamental Research - Jan 1, 2017 - Dec 31, 2018*

*Automatically Closed*

### **Constructing accessory lymph nodes in situ for control of mammary carcinoma**

*Fundamental Research - Jul 1, 2016 - Jun 30, 2019*

*Automatically Closed*

### **Blockade der Fibroblastenreifung zum Schutz vor autoimmuner Sehnerventzündung**

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

*Automatically Closed*

### **Role CCR7-ligands in virus-induced chronic CNS inflammation and demyelination**

*Fundamental Research - Jan 1, 2013 - Dec 31, 2013*

*Completed*

### **Analyse der T-Zellfunktion bei Virus induzierter Chorioretinitis**

*Fundamental Research - Jul 1, 2010 - Jun 30, 2013*

*Completed*

### **Impact of immune regulation on virus-induced chronic CNS inflammation and demyelination**

*Fundamental Research - Aug 1, 2009 - Sep 30, 2009*

*Completed*