

**Peer-reviewed original publications**

1. *Ricardo-Gonzales RR<sup>#</sup>, Schneider C<sup>#</sup>, Liao C, Lee J, Liang HE, Locksley RM.* Tissue-specific pathways extrude activated ILC2s to disseminate type 2 immunity. **Journal of Experimental Medicine**. 2020 April 6. (<sup>#</sup> equal contribution)
2. *Li F, Okreglicka KM, Pohlmeier LM, Schneider C, Kopf M.* Fetal monocytes possess increased metabolic capacity and replace primitive macrophages in tissue macrophage development. **EMBO J**. 2020 January 2.
3. *Schneider C<sup>#</sup>, Lee J<sup>#</sup>, Koga S, Ricardo-Gonzales RR, Nussbaum JC, Liang HE, Smith LK, Villeda SA, Locksley RM.* Tissue-resident group 2 innate lymphoid cells differentiate by layered ontogeny and in situ perinatal priming. **Immunity**. 2019 June 18. (<sup>#</sup> equal contribution)
4. *Piattini F, Le Foll C, Kisielow J, Rosenwald E, Nielsen P, Lutz T, Schneider C, Kopf M.* A spontaneous leptin-receptor point mutation in obese mice differentially affects leptin signaling in hypothalamic nuclei and results in a metabolic dysfunction distinct from db/db mice. **Molecular Metabolism**. 2019 April 25.
5. *Ricardo-Gonzalez RR<sup>#</sup>, Van Dyken SJ<sup>#</sup>, Schneider C, Lee J, Nussbaum JC, Liang HE, Vaka D, Eckalbar WL, Molofsky AB, Erle DJ, Locksley RM.* Tissue signals imprint ILC2 identity with anticipatory function. **Nature Immunology**. 2018 September 10.
6. *Nadsjombati MS, McGinty JW, Lyons-Cohen MR, Jaffe JB, DiPeso L, Schneider C, Miller CN, Pollack JL, Nagana Gowda GA, Fontana MF, Erle DJ, Anderson MS, Locksley RM, Raftery D, von Moltke J.* Detection of succinate by intestinal tuft cells triggers a type 2 innate immune circuit. **Immunity**. 2018 July 17.
7. *Schneider C, O'Leary CE, von Moltke J, Liang HE, Ang QY, Turnbaugh PJ, Radhakrishnan S, Pellizzon M, Ma A, Locksley RM.* A metabolite-triggered tuft cell-ILC2 circuit drives small intestinal remodeling. **Cell**. 2018 July 12.
8. *Singh PB, Pua HH, Happ HC, Schneider C, von Moltke J, Locksley RM, Baumjohann D, Ansel KM.* MicroRNA regulation of type 2 innate lymphoid cell homeostasis and function in allergic inflammation. **Journal of Experimental Medicine**. 2017 November 9.
9. *Yakimovich A, Huttunen M, Zehnder B, Coulter LJ, Gould V, Schneider C, Kopf M, McInnes CJ, Greber UF, Mercer J.* Inhibition of Poxvirus Gene Expression and Genome Replication by Bisbenzimidate Derivatives. **Journal of Virology**. 2017 August 24.
10. *Nobs SP, Natali S, Pohlmeier L, Okreglicka K, Schneider C, Kurrer M, Sallusto F, Kopf M.* PPAR $\gamma$  in dendritic cells and T cells drives pathogenic type-2 effector responses in lung inflammation. **Journal of Experimental Medicine**. 2017 August 10.
11. *Schneider C<sup>#</sup>, Nobs SP<sup>#</sup>, Heer AK, Hirsch E, Penninger J, Siggs OM, Kopf M.* Coincidental null mutation of *Csf2ra* in a colony of PI3K $\gamma$ <sup>-/-</sup> mice causes alveolar macrophage deficiency and fatal respiratory viral infection. **Journal of Leukocyte Biology**. 2016 July 28. (<sup>#</sup> equal contribution)
12. *Nobs SP, Schneider C, Heer AK, Huotari J, Helenius A, Kopf M.* PI3K $\gamma$  is critical for dendritic cell-mediated CD8<sup>+</sup> T cell priming and viral clearance during influenza virus infection. **PLoS Pathogens**. 2016 March 31.
13. *Nobs SP, Schneider C, Dietrich MG, Brocker T, Rolink A, Hirsch E, Kopf M.* PI3-Kinase- $\gamma$  has a distinct and essential role in lung-specific dendritic cell development. **Immunity**. 2015 October 6.

14. Mohapatra A, Van Dyken SJ, **Schneider C**, Nussbaum JC, Liang HE, Locksley RM. Group 2 innate lymphoid cells utilize the IRF4–IL-9 module to coordinate epithelial cell maintenance of lung homeostasis. **Mucosal Immunology**. 2015 July 1.
15. Matsushita M, Freigang S, **Schneider C**, Conrad M, Bornkamm GM, Kopf M. T cell lipid peroxidation induces ferroptosis and prevents immunity to infection. **Journal of Experimental Medicine**. 2015 March 30.
16. Banerjee I, Miyake Y, Nobs SP, **Schneider C**, Horvath P, Kopf M, Matthias P, Helenius A, Yamauchi Y. Influenza A virus uses the aggresome processing machinery for host cell entry. **Science**. 2014 October 24.
17. **Schneider C**, Nobs SP, Kurrer M, Rehrauer H, Thiele C, Kopf M. Induction of the nuclear receptor PPAR- $\gamma$  by the cytokine GM-CSF is critical for the differentiation of fetal monocytes into alveolar macrophages. **Nature Immunology**. 2014 September 28.
18. **Schneider C**, Nobs SP, Heer A, Kurrer M, Klinke G, van Rooijen N, Vogel J, Kopf M. Alveolar macrophages are essential for protection from respiratory failure and associated morbidity following influenza virus infection. **PLoS Pathogens**. 2014 April 3.
19. Kilcher S, Schmidt FI, **Schneider C**, Kopf M, Helenius A, Mercer J. siRNA screen of early poxvirus genes identifies the AAA+ ATPase D5 as the virus genome-uncoating factor. **Cell Host & Microbe**. 2014 January 15.
20. Weber B, Schuster S, Zysset D, Rihs S, Dickgreber N, Schuerch C, Riether C, Siegrist M, **Schneider C**, Pawelski H, Gurzeler U, Ziltener P, Genitsch V, Tacchini-Cottier F, Ochsenbein A, Hofstetter W, Kopf M, Kaufmann T, Oxenius A, Reith W, Saurer L, Mueller C. TREM-1 deficiency can attenuate disease severity without affecting pathogen clearance. **PLoS Pathogens**. 2014 January 16
21. Schmitz I, **Schneider C**, Fröhlich A, Frebel H, Christ D, Leonard WJ, Sparwasser T, Oxenius A, Freigang S, Kopf M. IL-21 restricts virus-driven Treg cell expansion in chronic LCMV infection. **PLoS Pathogens**. 2013 May 16.
22. Wolf MJ, Hoos A, Bauer J, Boettcher S, Knust M, Weber A, Simonavicius N, **Schneider C**, Lang M, Stürzl M, Croner RS, Konrad A, Manz MG, Moch H, Aguzzi A, van Loo G, Pasparakis M, Prinz M, Borsig L, Heikenwalder M. Endothelial CCR2 signaling induced by colon carcinoma cells enables extravasation via the JAK2-Stat5 and p38MAPK pathway. **Cancer Cell**. 2012 July 10.

### Reviews and viewpoints

23. **Schneider C**<sup>#</sup>, O'Leary CE<sup>#</sup>, Locksley RM. Regulation of immune responses by tuft cells. **Nat. Rev. Immunol.** 2019 May 21. (# equal contribution)
24. O'Leary CE<sup>#</sup>, **Schneider C**<sup>#</sup>, Locksley RM. Tuft cells—systemically dispersed sensory epithelia integrating immune and neural circuitry. **Annu. Rev. Immunol.** 2018 October 31. (# equal contribution)
25. **Schneider C**, Kopf M. tEMPTing Fate MaYBe the Solution. *Preview*. **Immunity**. 2015 April 21.
26. Kopf M, **Schneider C**, Nobs SP. The development and function of lung-resident macrophages and dendritic cells. **Nature Immunology**. 2014 December 18.