

Publications Daniela Finke

Peer-reviewed journals

1. Li Y, Masse-Ranson G, Garcia Z, Bruel T, Kök A, Strick-Marchand H, Jouvion G, Serafini N, Lim AI, Dusseaux M, Hieu T, Bourgade F, Toubert A, **Finke D**, Schwartz O, Bousso P, Mouquet H and Di Santo JP. 2018. A human immune system mouse model with robust lymph node development. *Nat. methods.* 15, 623-630.
2. Turchinovich G, Ganter S, Bärenwaldt A and **Finke D**. 2018. NKp46 calibrates tumoricidal potential of type 1 innate lymphocytes by regulating TRAIL expression. *J. Immunol.* 200, 3762-3768.
3. Raykova A, Carrega P, Lehmann FM, Ivanek R, Landtwing V, Quast I, Lünemann JD, **Finke D**, Ferlazzo G, Chijioke O, Münz C. 2017. Interleukin 12 and 15 induce cytotoxicity and early NK-cell differentiation in type 3 innate lymphoid cells. *Blood Adv.* 1, 2679-2691.
4. Dalmas E, Lehmann FM, Dror E, Wueest S, Thienel C, Borsigova M, Stawiski M, Traunecker E, Lucchini FC, Dapito DH, Kallert SM, Guigas B, Pattou F, Kerr-Conte J, Maechler P, Girard JP, Konrad D, Wolfrum C, Böni-Schnetzler M, **Finke D**, Donath MY. 2017. Interleukin-33-activated islet-resident innate lymphoid cells promote insulin secretion through myeloid cell retinoic acid production. *Immunity*, 47, 928-947.
5. Von Muenchow L, Alberti-Servera L, Klein F, Capoferri G, **Finke D**, Ceredig R, Rolink A, Tsapogas P. 2016. Permissive roles of cytokines Interleukin-7 and Flt3-ligand in mouse B cell lineage commitment. *PNAS*, 113, E8122-E8130.
6. Bank U, Deiser K, **Finke D**, Häggerling GJ, Arnold B and Schüler T. 2016. Cutting edge: innate lymphoid cells suppress homeostatic T cell expansion in neonatal mice. *J. Immunol.*, 196, 3532-6.
7. Baerenwaldt A, von Burg N, Kreuzaler M, Sitte S, Horvath E, Peter A, Voehringer D, Rolink AG and **Finke D**. 2016. Flt3 Ligand regulates the development of innate lymphoid cells in fetal and adult mice. *J. Immunol.*, 196 (6):2561-71.
8. Schmaler M, Broggi MA, Lagarde N, Stöcklin BF, King CG, **Finke D** and Rossi SW. 2015. IL-7R signalling in regulatory T cells maintains peripheral and allograft tolerance in mice. *PNAS*, 112 (43):13330-5.
9. Brasseit J, Althaus-Steiner E, Faderl M, Dickgreber N, Saurer L, Genitsch V, Dolowschiak T, Li H, **Finke D**, Hardt WD, McCoy KD, Macpherson AJ, Corazza N, Noti M, Mueller C. 2015. CD4 T cells are required for both development and maintenance of disease in a new mouse model of reversible colitis. *Mucosal Immunology*, 9, 689-701.
10. Von Burg N, Chappaz S, Baerenwaldt A, Horvath E, Dasgupta SB, Ashok D, Pieters J, Tacchini-Cottier F, Rolink H, Acha-Orbea H and **Finke D**. 2014. Activated group 3 innate lymphoid cells promote T-cell-mediated immune responses. *PNAS*, 111(35): 12835-40.

11. Iolyeva M, Aebscher D, Ecoiffier T, Häner S, Bouchaud G, Krieg C, Onder L, Ludewig B, Santambrogio L, Boyman O, Chen L, **Finke D** and Halin C. 2013. Interleukin-7 is produced by afferent lymphatic vessels and supports lymphatic drainage. *Blood*, 122(13):2271-81.
12. Zuklys S, Mayer CE, Zhanybekova S, Stefanski HE, Nusspaumer G, Gill J, Barthlott T, Chappaz S, Nitta T, Dooley J, Nogales-Cadenas R, Takahama Y, **Finke D**, Liston A, Blazar BR, Pascual-Montano A, Holländer GA. 2012. MicroRNAs control the maintenance of thymic epithelia and their competence for T lineage commitment and thymocyte selection. *J Immunol*, 189(8):3894-904.
13. Shalapour S, Deiser K, Kühl AA, Glauben R, Krug SM, Fischer A, Sercan O, Chappaz S, Bereswill S, Heimesaat MM, Loddenkemper C, Fromm M, **Finke D**, Hämmерling GJ, Arnold B, Siegmund B, Schüler T. 2012. Interleukin-7 links T lymphocyte and intestinal epithelial cell homeostasis. *PLoS One*. 7(2):e31939.
14. Kiss EA, Vonarbourg C, Kopfmann S, Hobeika E, **Finke D**, Esser C, Diefenbach A. 2011. Natural aryl hydrocarbon receptor ligands control organogenesis of intestinal lymphoid follicles. *Science*. 334(6062):1561-65.
15. Vonarbourg C, Mortha A, Bui VL, Hernandez PP, Kiss EA, Hoyler T, Flach M, Bengsch B, Thimme R, Hölscher C, Höning M, Pannicke U, Schwarz K, Ware CF, **Finke D**, Diefenbach A. 2010. Regulated expression of nuclear receptor ROR γ t confers distinct functional fates to NK cell receptor-expressing ROR γ t(+) innate lymphocytes. *Immunity*. 24;33(5):736-51.
16. Chappaz S, Gärtner C, Rodewald HR, **Finke D**. 2010. Kit ligand and IL7 differentially regulate Peyer's patch and lymph node development. *J Immunol*;185(6):3514-19.
17. Chappaz S, **Finke D**. 2010. The IL-7 signaling pathway regulates lymph node development independent of peripheral lymphocytes. *J Immunol*. 1;184(7):3562-69.
18. Dumortier A, Durham AD, Di Piazza M, Vauclair S, Koch U, Ferrand G, Ferrero I, Demehri S, Song LL, Farr AG, Leonard WJ, Kopan R, Miele L, Hohl D, **Finke D**, Radtke F. 2010. Atopic dermatitis-like disease and associated lethal myeloproliferative disorder arise from loss of Notch signaling in the murine skin. *PLoS One*. 18;5(2):e9258.
19. Schmutz, S., N. Bosco, S. Chappaz, O. Boyman, H. Acha-Orbea, R. Ceredig, A.G. Rolink and **D. Finke**. 2009. Cutting edge: Interleukin 7 regulates the peripheral pool of adult ROR γ t⁺ lymphoid tissue inducer cells. *JI*, 183, 2217-2221.
20. Elentner, A., **D. Finke**, M. Schmuth, S. Ebner, P. Chambon, B. Malissen, A. Kissenseppennig, N. Romani and S. Dubrac. 2009. Langerhans cells are critical in the development of atopic dermatitis-like inflammation and symptoms in mice. *Journal of Cellular and Molecular Medicine*, 13(8B): 2657-72.

21. Vogt, T.K., J. Perrin, **D. Finke** and S.A. Luther. 2009. Novel function for interleukin 7 in dendritic cell development and maintenance. *Blood*, 113, 3961-3968.
22. Combaluzier, B., J. Massner, **D. Finke** and J. Pieters. 2009. Coronin 1 is essential for IgM mediated Ca²⁺ mobilization in B cells but dispensable for *in vivo* B cell function. *J. Immunol.*, 182, 1954-61.
23. Scandella, E., B. Bollinger, E. Lattmann, S. Miller, S. Favre, D.R. Littman, **D. Finke**, S.A. Luther, T. Junt and B. Ludewig. 2008. Restoration of lymphoid organ integrity through interaction of lymphoid tissue-inducer cells with stroma of the T cell zone. *Nature Immunology*, 9, 667-675.
24. White, A.J., D.R. Withers, S.M. Parnell, H.S. Scott, **D. Finke**, P.J. Lane, E.J. Jenkinson and G. Anderson. 2008. Sequential phases in the development of aire-expressing medullary epithelial cells involve distinct cellular input. *European Journal of Immunology*, 38, 1-6.
25. Chappaz, S., L. Flueck, A.G. Farr, A.G. Rolink and **D. Finke**. 2007. Increased TSLP availability restores T and B cell compartments in adult IL-7-deficient mice. *Blood*, 110, 3862-70.
26. Meier, D., C. Bornmann, S. Chappaz, S. Schmutz, L.A. Otten, R. Ceredig, H. Acha-Orbea and **D. Finke**. 2007. Ectopic lymphoid-organ development occurs through interleukin-7-mediated enhanced survival of lymphoid-tissue-inducer cells. *Immunity*, 26, 643-654.
27. Rumbo, M., F. Sierro, N. Debard, J.P. Kraehenbuhl, **D. Finke**. 2004. Lymphotoxin b receptor signaling induces the chemokine CCL20 in intestinal epithelium. *Gastroenter*. 127, 213-223.
28. Esslinger, C., L. Chapatte, **D. Finke**, I. Miconnet, P. Guillaume, F. Lévy, H.R. MacDonald. 2003. In vivo administration of a lentiviral vaccine targets dendritic cells and induces efficient CD8⁺ T cell responses, *J. Clin. Inv.*, 111, 1673-1681.
29. Capone, M., R.K. Lees, **D. Finke**, B. Ernst, J.P.M. Van Meerwijk, H.R. MacDonald. 2003. Selective absence of CD8⁺TCRab⁺ intestinal epithelial cells in transgenic mice expressing b2 microglobulin-associated ligands exclusively on thymic cortical epithelium. *Eur. J. Immunol.*, 33, 1471-1477.
30. Ramirez, J.C. *, **Finke, D.***, J.P. Kraehenbuhl, M. Esteban, H. Acha-Orbea. 2003. Tissue distribution of the Ankara strain of vaccinia virus (MVA) after mucosal or systemic administration. *Arch. Virol.*, 148, 827-839. *equal contribution
31. Mpandi, M., L.A. Otten, C. Lavanchy, H. Acha-Orbea, **D. Finke**. 2003. Passive immunization with neutralizing antibodies interrupts the mouse mammary tumor virus life cycle. *J. Virol.*, 77, 9369-9377.
32. **Finke, D.**, S. Luther, H. Acha-Orbea. 2003. The role of neutralizing antibodies for mouse mammary tumor virus transmission and mammary cancer development. *PNAS*, 100, 199-204.

33. **Finke, D.**, H. Acha-Orbea, A. Mattis, M. Lipp, J.P. Kraehenbuhl, 2002. CD4⁺CD3⁻ cells induce Peyer's patch development: role of a4b1-integrin-activation by CXCR5. *Immunity*, 17, 363-373.
34. Wehrli, N., Legler, D.F., **D. Finke**, K.-M. Toellner, P. Loetscher, M. Baggioolini, J.C.M. MacLennan, H. Acha-Orbea. 2001. Changing responsiveness to chemokines allows medullary plasmablasts to leave lymph nodes. *Eur. J. Immunol.* 31, 609-616.
35. **Finke, D.**, F. Baribaud, H. Diggelmann, H. Acha-Orbea. 2001. Extrafollicular plasmablast B cells play a key role in carrying retroviral infection to peripheral organs. *J. Immunol.*, 166, 6276-6286.
36. **Finke, D.** and H. Acha-Orbea. 2001. Differential migration of *in vivo* primed B and T lymphocytes to lymphoid and non-lymphoid organs. *Eur. J. Immunol.*, 31, 2603-2611.
37. Schneider, P., H. Takatsuka, A. Wilson, F. Mackay, A. Tardivel, S. Lens, T.G. Cachero, **D. Finke**, F. Beermann, J. Tschoopp. 2001. Maturation of marginal zone and follicular B cells requires B cell activation factor of the tumor necrosis factor family and is independent of B cell maturation antigen. *J. Exp. Med.*, 194, 1691-1697.
38. Astori, M. *, **Finke, D.***, O. Karapetian, H. Acha-Orbea. 1999. Development of T cell/B cell collaboration in neonatal mice. *Int. Immunol.*, 11, 445-451. *equal contribution
39. **Finke, D.**, L. Mortezaei, H. Acha-Orbea. 1998. Preactivation of B lymphocytes does not enhance mouse mammary tumor virus infection. *J. Virol.*, 72, 7688-7691.
40. **Finke, D.**, U.G. Brinckmann, V. ter Meulen, U.G. Liebert. 1995. Gamma Interferon is a major mediator of the antiviral defense in experimental measles virus-induced encephalitis. *J. Virol.*, 69, 5469-5474.
41. **Finke, D.**, U.G. Liebert, V. ter Meulen. 1994. CD4⁺ T Lymphocytes are essential in overcoming experimental murine measles encephalitis. *Immunology*, 83, 184-189.

Reviews/Book chapters

1. Von Burg, N, G. Turchinovich and **D. Finke**. 2015. Maintenance of immune homeostasis through ILC/T cell interactions. *Frontiers in Immunology*, 6, 416
2. **Finke D.** 2009. The induction of intestinal lymphoid tissue formation by intrinsic and extrinsic signals. *Seminars in Immunopathology*, 31, 151-69.
3. Chappaz, S and **D. Finke**. 2009. The biology of lymphoid tissue inducer cells. In: *Cell Determination During Hematopoiesis*, chapter 9, novapublisher ISBN, 978-1-60741-733-0.

4. **Finke, D.** and Sandrine Schmutz. 2008. Interleukin 7 induced lymphoid neogenesis in arthritis: recapitulation of a fetal developmental program? *Swiss Med. Weekly*, 138, 500-505.
5. **Finke, D.** 2008 An immunologist's view on establishment of a knowledge dialogue. In: *A Vision of Transdisciplinarity; Laying Foundations for a World Knowledge Dialogue*, Eds. F. Darbellay, M. Cockell, J. Billotte and F. Waldvogel, EPFL press, Lausanne, Switzerland, 75-84.
6. H. Acha-Orbea, A.N. Shakhov and **D. Finke**. 2007. Immune response to MMTV infection. *Frontiers in Bioscience* 12, 1594-1609.
7. **Finke, D.** and D. Meier. 2006. Molecular networks orchestrating GALT development. *Current Topics in Microbiology and Immunology*, 308, 19-57.
8. **Finke, D.** 2005. Fate and function of lymphoid tissue inducer cells. *Current Opinion in Immunology*, 17, 144-150.
9. M. Rumbo, P. Anderle, A. Didierlaurant, F. Sierro, N. Debard, JC Sirard, **D. Finke** and J.P. Kraehenbuhl. 2004. How the gut links innate and adaptive immunity. *Annals of the New York Academy of Sciences*, 1029, 16-21.
10. Otten, L, **D. Finke**, H. Acha-Orbea. 2002. Toll-like receptor 4 and mouse mammary tumor virus: a paradigm for virus-host interactions. *Trends in Microbiology*, 10, 303-305.
11. **Finke, D.** and J.P. Kraehenbuhl. 2001. Formation of Peyer's Patches. *Curr. Opin. Gen. Develop. Biol.*, 11, 561-567.
12. **Finke, D.** and H. Acha-Orbea. 2001, Immune response to murine and feline retroviruses. In: *Retroviral Immunology*, Eds. G. Pantaleo & B.D. Walker, Humana Press, New York, NY, page 125-157.
13. H. Acha-Orbea, **D. Finke**, A. Attinger, S. Schmid, N. Wehrli, S. Vacheron, I Xenarios, K.M. Toellner, I.C.M. MacLennan, S. Luther. 1999. Interplays between mouse mammary tumor virus and the cellular and humoral immune response. *Immunol. Rev.*, 168, 287-303.
14. Liebert, U.G, **D. Finke**. 1994. Measles virus infections in rodents. Current topics in microbiology and immunology. V. ter Meulen and M. Billeter, editors, Springer-Verlag, Berlin, 149-66.