

Important Papers 2008–2017

- Lee, J.S., R. Krause, J. Schreiber, H.-J. Mollenkopf, J. Kowall, R. Stein, B.Y. Jeon, J.Y. Kwak, M.K. Song, J.P. Patron, S. Joerg, K. Roh, S.N. Cho, and S.H.E. Kaufmann: Mutation in the transcriptional regulator PhoP contributes to avirulence of *Mycobacterium tuberculosis* H37Ra strain.
Cell Host Microbe 3: 97-103 (2008)
<http://www.ncbi.nlm.nih.gov/pubmed/18312844>
- Darmoise, A., S. Teneberg, L. Bouzonville, R.O. Brady, M. Beck, S.H.E. Kaufmann, F. Winau. Lysosomal α -galactosidase controls the generation of self lipid antigens for NKT cells.
Immunity 33:216-228 (2010)
<http://www.ncbi.nlm.nih.gov/pubmed/20727792>
- Dorhoi, A., C. Desel, V. Yeremeev, O. Gross, L. Pradl, V. Brinkmann, H.-J. Mollenkopf, K. Hahnke, J. Ruland and S.H.E. Kaufmann: The adaptor molecule CARD9 is essential for tuberculosis control.
J. Exp. Med. 207:777-792 (2010)
<http://www.ncbi.nlm.nih.gov/pubmed/20351059>
- Kaufmann, S.H.E., G. Hussey, P.-H. Lambert: New vaccines for tuberculosis.
The Lancet 375: 2110-2119 (2010)
<http://www.ncbi.nlm.nih.gov/pubmed/20488515>
- Kaufmann, S.H.E: Future vaccination strategies against tuberculosis: thinking out of the box.
Immunity 33:567-577 (2010)
<http://www.ncbi.nlm.nih.gov/pubmed/21029966>
- Reece, S.T., C. Loddenkemper, D.J. Askew, U. Zedler, S. Schommer-Leitner, M. Stein, F.-A. Mir, A. Dorhoi, H.-J. Mollenkopf, G.A. Silverman, S.H.E. Kaufmann: Serine protease activity contributes to control of tuberculosis in hypoxic granulomas in mice.
J. Clin. Invest. 120:3365-3376 (2010)
<http://www.ncbi.nlm.nih.gov/pubmed/20679732>
- Maertzdorf, J., J. Weiner, H.-J. Mollenkopf, TBor notTB network, T. Bauer, A. Prasse, J. Müller-Quernheim, S.H.E. Kaufmann: Common patterns and disease-related signatures in tuberculosis and sarcoidosis.
Proc. Natl. Acad. Sci. 109: 7853-7858 (2012)
<http://www.ncbi.nlm.nih.gov/pubmed/22547807>
- Dorhoi, A., M. Iannaccone, M. Farinacci, K.C. Faé, J. Schreiber, P. Moura-Alves, H.-J. Mollenkopf, D. Oberbeck-Mueller, S. Jörg, E. Heinemann, K. Hahnke, F. Del Nonno, D. Goletti, R. Capparelli, S.H.E. Kaufmann: MicroRNA miR-223 controls susceptibility to tuberculosis by regulating lung neutrophil recruitment.
J. Clin. Invest. 123:4836-4848 (2013)
<http://www.ncbi.nlm.nih.gov/pubmed/24084739>
- Nouailles, G., A. Dorhoi, M. Koch, J. Zerrahn, J. Weiner 3rd, Fae, K., F. Arrey, P. Moura-Alves, S. Kuhlmann, S. Bandermann, D. Loewe, H.-J. Mollenkopf, A. Vogezang, C. Meyer-Schwesinger, H.-W. Mittrücker,

S.H.E. Kaufmann: CXCL5/LIX-secreting pulmonary epithelial cells drive destructive neutrophilic inflammation in tuberculosis.

J. Clin. Invest. 24(3):1268-1282 (2014)

<http://www.ncbi.nlm.nih.gov/pubmed/24509076>

Vogelzang, A., C. Perdomo, U. Zedler, S. Kuhlmann, R. Hurwitz, M. Gengenbacher, S.H.E. Kaufmann: Central memory CD4 T cells are responsible for superior protection against tuberculosis of the recombinant Bacillus Calmette-Guérin $\Delta ureC::hly$ vaccine.

J. Infect. Dis. 210(12):1928-1937 (2014)

<http://www.ncbi.nlm.nih.gov/pubmed/24943726>

Feng, Y., A. Dorhoi, H.-J. Mollenkopf, H. Yin, Z. Dong, L. Mao, J. Zhou, A. Bi, S. Weber, J. Maertzdorf, G. Chen, Y. Chen, S.H.E. Kaufmann: Platelets direct monocyte differentiation into epithelioid-like multinucleated giant foam cells with suppressive capacity upon mycobacterial stimulation.

J. Infect. Dis. 210(11): 1700-1710 (2014)

<http://www.ncbi.nlm.nih.gov/pubmed/24987031>

Moura-Alves, P., K.C. Fae, E. Houthuys, A. Dorhoi, A. Kreuchwig, J. Furkert, N. Barison, A. Diehl, A. Munder, P. Constant, T. Skrahina, U. Gühlich-Bornhof, M. Klemm, A.-B. Koehler, S. Bandermann, C. Goosmann, H.-J. Mollenkopf, R. Hurwitz, V. Brinkmann, S. Fillatreau, M. Daffe, B. Tümmeler, M. Kolbe, H. Oschkinat, G. Krause, S.H.E. Kaufmann: AhR sensing of bacterial pigments regulates antibacterial defence.

Nature 512(7515):387-392 (2014)

<http://www.ncbi.nlm.nih.gov/pubmed/25119038>

Duque-Correa, M.A., A. Köhl, P.C. Rodriguez, U. Zedler, S. Schommer-Leitner, M. Rao, J. Weiner 3rd, R. Hurwitz, J.E. Qualls, G.A. Kosmiadi, P.J. Murray, S.H.E. Kaufmann, S.T. Reece. Macrophage arginase-1 controls bacterial growth and pathology in hypoxic tuberculosis granulomas.

Proc. Natl. Acad. Sci. USA 111(38):E4024-E432 (2014)

<http://www.ncbi.nlm.nih.gov/pubmed/25201986>

Gengenbacher, M., A. Vogelzang, S. Schuerer, D. Lazar, P. Kaiser, S.H.E. Kaufmann: Dietary pyridoxine controls efficacy of vitamin B6-auxotrophic tuberculosis vaccine bacillus Calmette-Guérin $\Delta ureC::hly \Delta pdx1$ in mice.

mBio 5(3): e01262-14 (2014)

<https://www.ncbi.nlm.nih.gov/pubmed/24895310>

Maertzdorf, J., S. Tian, J. Weiner 3rd, G. McEwen, E. Lader, U. Schriek, J. Kenneth, S.H.E. Kaufmann: Concise gene signature for point-of-care classification of tuberculosis.

EMBO Mol. Med. 8(2): 86-95 (2015)

<http://www.ncbi.nlm.nih.gov/pubmed/26682570>

Saiga, H., N. Nieuwenhuizen, M. Gengenbacher, A.-B. Koehler, S. Schuerer, P. Moura-Alves, I. Wagner, H.-J. Mollenkopf, A. Dorhoi, S.H.E. Kaufmann: The recombinant BCG $\Delta ureC::hly$ vaccine targets the AIM2 inflammasome to induce autophagy and inflammation.

J. Infect. Dis. 211(11):1831-1841 (2015)

<http://www.ncbi.nlm.nih.gov/pubmed/25505299>

- Zak, D., A. Penn-Nicholson, T.J. Scriba, E. Thompson, S. Suliman, L.M. Amon, H. Mahomed, M. Erasmus, W. Whatney, G.D. Hussey, D. Abrahams, F. Kafaar, T. Hawkridge, S. Verver, E.J. Hughes, M. Ota, J. Sutherland, R. Howe, H.M. Dockrell, W. H. Boom, B. Thiel, T.H.M. Ottenhoff, H. Mayanja-Kizza, A.C. Crampin, K. Downing, M. Hatherill, J. Valvo, S. Shankar, S.K. Parida, S.H.E. Kaufmann, G. Walzl, A. Aderem, W.A. Hanekom for other members of the ACS^s and GC6-74⁺ cohort study team: A blood RNA signature for tuberculosis disease risk: a prospective cohort study.
The Lancet 387(10035):2312-22 (2016)
<http://www.ncbi.nlm.nih.gov/pubmed/27017310>
- Kupz, A., U. Zedler, M. Stäber, C. Perdomo, A. Dorhoi, R. Brosch, S.H.E. Kaufmann: ESAT-6-dependent cytosolic pattern recognition drives noncognate tuberculosis control in vivo.
J Clin Invest 126(6):2109-2122. doi:10.1172/JCI84978 (2016)
<http://www.ncbi.nlm.nih.gov/pubmed/27111234>
- Gengenbacher, M., N. Nieuwenhuizen, A. Vogelzang, H. Liu, P. Kaiser, S. Schuerer, D. Lazar, I. Wagner, H.-J. Mollenkopf, S.H.E. Kaufmann: Deletion of *nuoG* from the vaccine candidate *Mycobacterium bovis* BCG $\Delta ureC::hly$ improves protection against tuberculosis.
mBio, 7(3): e00679-16. doi:10.1128/mBio.00679-16 (2016)
<http://www.ncbi.nlm.nih.gov/pubmed/27222470>
- Kaufmann, S.H.E., A. Dorhoi, R.S. Hotchkiss and R. Bartenschlager: Host-directed therapy for bacterial and viral infections.
Nat. Rev. Drug Discov. , doi:10.1038/nrd.2017.162 (2017)
<http://www.ncbi.nlm.nih.gov/pubmed/28935918>