

Selected Publications 2017

Beigier-Bompadre M., Montagna G.N., Kühl, A., Lozza, L., Weiner III, J., Kupz A., Vogelzang A., Mollenkopf H.-J., Löwe D., Bandermann S., Dorhoi A., Brinkmann V., Matuschewski K., Kaufmann S.H.E. (2017) *Mycobacterium tuberculosis* infection modulates adipose tissue biology. **PLoS Path.** 13: e1006676.

<http://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1006676>

Dunst J., Kamena F., Matuschewski K. (2017) Cytokines and chemokines in cerebral malaria pathogenesis. **Front. Cell. Infect. Microbiol.** 7: 324. (Review)

<https://www.frontiersin.org/articles/10.3389/fcimb.2017.00324/full>

Frischknecht F., Matuschewski K. (2017) *Plasmodium* sporozoite biology. **Cold Spring Harb. Perspect. Med.** 7: a025478.

<http://perspectivesinmedicine.cshlp.org/content/7/5/a025478.long>

Kong P., Ufermann C.M., Zimmermann D.L.M., Yin Q., Suo X., Helms J.B., Brouwers J.F., Gupta N. (2017) Two phylogenetically and compartmentally distinct CDP-diacylglycerol synthases cooperate for lipid biogenesis in *Toxoplasma gondii*. **J. Biol. Chem.** 292(17), 7145-59

<http://www.jbc.org/content/292/17/7145.long>

Koussis K., Goulielmaki E., Chalari A., Withers-Martinez C., Siden-Kiamos I., Matuschewski K., Loukeris T.G. (2017) Targeted deletion of a *Plasmodium* site-2 protease impairs life cycle progression in the mammalian host. **PLoS One** 12: e0170260.

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Kreutzfeld O., Müller K., Matuschewski K. (2017) Engineering of genetically arrested parasites (GAPs) for a precision malaria vaccine. **Front. Cell. Infect. Microbiol.** 7: 198. (Review).

<https://www.frontiersin.org/articles/10.3389/fcimb.2017.00198/full>

Matuschewski K. (2017) Vaccines against malaria – still a long way to go. **FEBS J.** 284: 2560-2568. (Review).

<http://onlinelibrary.wiley.com/doi/10.1111/febs.14107/abstract>

Müller, K., Gibbins, M.P., Matuschewski, K., Hafalla, J.C. (2017) Evidence of cross-stage CD8+ T cell epitopes in malaria pre-erythrocytic and blood stage infections. **Parasite Immunol.** 39: e12434.

<http://onlinelibrary.wiley.com/doi/10.1111/pim.12434/abstract>

Nitzsche N., Günay-Esioyk O., Tischer M., Zagoriy V., Gupta N. (2017) A plant/fungal-type phosphoenolpyruvate carboxykinase located in the parasite mitochondrion ensures glucose-independent survival of *Toxoplasma gondii*. **J. Biol. Chem.** 292(37), 15225-39

<http://www.jbc.org/content/292/37/15225.long>

Nyboer B., Heiss K., Mueller A.K., Ingmundson A. (2017) The *Plasmodium* liver-stage parasitophorous vacuole: A front-line of communication between the parasite and host. **Int J Med Microbiol.** in press. (Review)

<https://doi.org/10.1016/j.ijmm.2017.09.008>

Offeddu V., Olutu A., Osier F., Marsh K., Matuschewski K., Thathy V. (2017) High sporozoite antibody titers in conjunction with microscopically detectable blood infection display signatures of protection from clinical malaria. **Front. Immunol.** 8: 488.

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Petersen W., Stenzel W., Silvie O., Blanz J., Saftig P., Matuschewski K., Ingmundson A. (2017) Sequestration of cholesterol within the host late endocytic pathway restricts liver-stage *Plasmodium* development. **Mol. Biol. Cell** 28: 726-735

<http://www.molbiolcell.org/content/28/6/726.long>

Ren B., Gupta N. (2017) Taming parasites by tailoring them. **Front. Cell. Infect. Microbiol.** 7: 292. (Review)

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Schaer J., Perkins S.L., Ejotre I., Vodzak M.E., Matuschewski K., Reeder D.M. (2017) Epauletted fruit bats display exceptionally high infections with a *Hepatozoon* species complex in South Sudan. **Sci. Rep.** 7: 6928.

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