Publications

Mokhtari Z*, Mech F*, Zehentmeier S, Hauser AE, Figge MT (2015) Quantitative image analysis of cell colocalization in murine bone marrow. *Cytometry A* 87(6), 503-512, *authors contributed equally.

Mech F, Wilson D, Lehnert T, Hube B, Figge MT (2014) Epithelial invasion outcompetes hypha development during *Candida albicans* infection as revealed by an image-based systems biology approach. *Cytometry A* 85(2), 126-139.

Mokhtari Z, Mech F, Zitzmann C, Hasenberg M, Gunzer M, Figge MT (2013) Automated characterization and parameter-free classification of cell tracks based on local migration behavior. *PLOS ONE* 8(12), e80808.

Zang E*, Brandes S*, Tovar M, Martin K, Mech F, Horbert P, Henkel T, Figge MT, Roth M (2013) Real-time image processing for label-free enrichment of Actinobacteria cultivated in picolitre droplets. *Lab Chip* 13(18), 3707-3713, *authors contributed equally.

Guthke R, Linde J, Mech F, Figge MT (2012) Systems biology of microbial infection. *Front Microbiol* 3, 328.

Mech F, Figge MT (2012) Image-based systems biology: A quantitative approach to elucidate the kinetics of fungal morphologies and virulence. In: Highlight Papers of the German Conference on Bioinformatics 2012 German Conference on Bioinformatics, Jena, GCB.

Tokarski C, Hummert S, Mech F, Figge MT, Germerodt S, Schroeter A, Schuster S (2012) Agent-based modeling approach of immune defense against spores of opportunistic human pathogenic fungi. *Front Microbiol* 3, 129.

Albrecht D, Kniemeyer O, Mech F, Gunzer M, Brakhage A, Guthke R (2011) On the way toward systems biology of *Aspergillus fumigatus* infection. *Int J Med Microbiol* 301(5), 453-459.

Mech F*, Thywissen A*, Guthke R, Brakhage AA, Figge MT (2011) Automated image analysis of the host-pathogen interaction between phagocytes and *Aspergillus fumigatus*. *PLOS ONE* 6(5), e19591, *authors contributed equally.

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