

Publications

Praetorius JP^{*}, Hitzler SUJ^{*}, Gresnigt MS[#], Figge MT[#] (2025) Image-based quantification of *Candida albicans* filamentation and hyphal length using the open-source visual programming language JIPipe. *FEMS Yeast Res* [Accepted]

Sarkar A, Praetorius JP, Figge MT[#] (2024) Deep learning-based characterization of neutrophil activation phenotypes in *ex vivo* human *Candida* blood infections. *Comput Struct Biotechnol J* 23, 1260-1273.

Walluks K^{*}, Praetorius JP^{*}, Arnold D[#], Figge MT[#] (2024) Impact of functional electrical stimulation on nerve-damaged muscles by quantifying fat infiltration using deep learning. *Sci Rep* 14(1), 12158.

Praetorius JP, Walluks K, Svensson CM, Arnold D, Figge MT[#] (2023) IMFSegNet: Cost-effective and objective quantification of intramuscular fat in histological sections by deep learning. *Comput Struct Biotechnol J* 21, 3696-3704.

Belyaev I^{*}, Marolda A^{*}, Praetorius JP, Sarkar A, Medyukhina A, Hünninger K, Kurzai O, Figge MT (2022) Automated characterisation of neutrophil activation phenotypes in *ex vivo* human *Candida* blood infections. *Comput Struct Biotechnol J* 20, 2297-2308.

Belyaev I^{*}, Praetorius JP^{*}, Medyukhina A, Figge MT (2021) Enhanced segmentation of label-free cells for automated migration and interaction tracking. *Cytometry A* 99(12), 1218-1229.

Lehnert T, Prauße MTE, Hünninger K, Praetorius JP, Kurzai O, Figge MT (2021) Comparative assessment of immune evasion mechanisms in human whole-blood infection assays by a systems biology approach. *PLOS One* 16(4), e0249372.

^{*}equal contribution [#]corresponding author