

# Publications

Graf M<sup>\*</sup>, Sarkar A<sup>\*</sup>, Svensson CM, Munser AS, Schröder S, Hengoju S, Rosenbaum MA<sup>#</sup>, Figge MT<sup>#</sup> (2025) Rapid detection of microbial antibiotic susceptibility via deep learning supported analysis of angle-resolved scattered-light images of picoliter droplet cultivations. *Sens Actuators B Chem* 424, 136866.

Abou-Kandil A<sup>\*</sup>, Tröger-Görler S<sup>\*</sup>, Pschibul A<sup>\*</sup>, Krüger T, Rosin M, Schmidt F, Akbarimoghaddam P, Sarkar A, Cseresnyés Z, Shadkchan Y, Heinekamp T, Gräler MH, Barber AE, Walther G, Figge MT, Brakhage AA, Osherov N<sup>#</sup>, Kniemeyer O<sup>#</sup> (2024) The proteomic response of *Aspergillus fumigatus* to Amphotericin B (AmB) reveals the involvement of the RTA-like protein RtaA in AmB resistance. *microLife* 6, uqae024.

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

Belyaev I<sup>\*</sup>, Marolda A<sup>\*</sup>, Praetorius JP, Sarkar A, Medyukhina A, Hänniger 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.

Sarkar A (2022) Explainable ai and its applications in healthcare. In: Mehta M, Palade V, Chatterjee I (eds.) *Explainable AI: Foundations, Methodologies and Applications*. 232, pp. 111-133. Springer. ISBN: 978-303112807-3. (Review)

Sarkar A, Vandenhirtz J, Nagy J, Bacsa D, Riley M (2021) Identification of images of COVID-19 from chest X-rays using deep learning: Comparing COGNEX vision Pro deep learning 1.0™ software with open source convolutional neural networks. *SN Comput Sci* 2(3), 130.

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