

Publications

Gerst R, Cseresnyés Z, Figge MT[#] (2025) Intuitive Abläufe für die automatisierte Bildanalyse. JIPipe als quelloffene Softwarelösung für FAIRe Bildanalyse. Online-Publikation bei Wiley Analytical Science

Gerst R, Cseresnyés Z, Figge MT[#] (2025) Intuitive workflows for automated image analysis - JIPipe as an open-source tool for FAIR image analysis. *Microsc Anal* 39(1), 45-47.

Ulrich HF, Klein T, Zhao Z, Cseresnyés Z, Carravilla P, Gerst R, Kasberg A, Scharfenberg FP, Figge MT, Eggeling C, Brendel JC[#] (2025) Selective activation of dynamics in kinetically frozen supramolecular polymer bottlebrush assemblies. *Small* 21(44), e05481.

Moore J[#], Kunis S, Grüning B, Blank-Burian M, Mallm JP, Stöter T, Zuschratter W, Figge MT, Kreshuk A, Tischer C, Haase R, Zobel T, Bauer P, Svensson CM, Gerst R, Hanne J, Schmidt C, Becker MM, Bocklitz T, Bumberger J, Chalopin C, Chen J, Czodrowski P, Dickscheid T, Fortmann-Grote C, Huisken J, Lohmann J, Schauss A, Baumann M, Beretta C, Burel JM, Heuveline C, Kuner R, Kuner T, Landwehr M, Leibfried A, Nitschke R, Mittal D, von Suchodoletz D, Valencia-Schneider M, Zentis P, Brilhaus D, Hartley M, Hülsmann B, Dunker S, Keppler A, Mathur A, Meesters C, Möbius W, Nahnsen S, Pfander C, Rehwald S, Serrano-Solano B, Vilardell Scholten L, Vogl R, Becks L, Ferrando-May E^{*#}, Weidtkamp-Peters S^{*#} (2024) NFDI4BIOIMAGE - National research data infrastructure for microscopy and bioimage analysis. *Zenodo*, (Review)

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Behrendt F^{*}, Cseresnyés Z^{*}, Gerst R, Gottschaldt M, Figge MT[#], Schubert US[#] (2023) Evaluation of reproducible cryogel preparation based on automated image analysis using deep learning. *J Biomed Mater Res A* 111(11), 1734-1749.

Gerst R^{*}, Cseresnyés Z^{*}, Figge MT[#] (2023) JIPipe: Visual batch processing for ImageJ. *Nat Methods* 20(2), 168-169.

Hoffmann B^{*}, Gerst R^{*}, Cseresnyés Z, Foo W, Sommerfeld O, Press AT, Bauer M, Figge MT (2022) Spatial quantification of clinical biomarker pharmacokinetics through deep learning-based segmentation and signal-oriented analysis of MSOT data. *Photoacoustics* 26, 100361.

Richter I, Radosa S, Cseresnyés Z, Ferling I, Büttner H, Niehs SP, Gerst R, Scherlach K, Figge MT, Hillmann F, Hertweck C (2022) Toxin-producing endosymbionts shield pathogenic fungus against micropredators. *mBio* 13(5), e0144022.

Büttner H^{*}, Niehs SP^{*}, Vandelannoote K, Cseresnyés Z, Dose B, Richter I, Gerst R, Figge MT, Stinear TP, Pidot SJ, Hertweck C[#] (2021) Bacterial endosymbionts protect beneficial soil fungus from nematode attack. *Proc Natl Acad Sci U S A* 118(37), e2110669118.

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