

Nikon Imaging Center List of Publications

Adam, L., M. Stanifer, F. Springer, J. Mathony, M. Brune, C. Di Ponzio, R. Eils, S. Boulant, D. Niopek, and S.M. Kallenberger. 2023. Transcriptomics-inferred dynamics of SARS-CoV-2 interactions with host epithelial cells. *Sci Signal*. 16:eabl8266.

Baltissen, D., C.S. Bold, L. Rehra, M. Banicevic, J. Fricke, J. Just, S. Ludewig, C.J. Buchholz, M. Korte, and U.C. Muller. 2023. APPsalpha rescues CDK5 and GSK3beta dysregulation and restores normal spine density in Tau transgenic mice. *Front Cell Neurosci*. 17:1106176.

Buhler, B., J. Schokolowski, A. Benderoth, D. Englert, F. Grun, A. Jaschke, and M. Sunbul. 2023. Avidity-based bright and photostable light-up aptamers for single-molecule mRNA imaging. *Nat Chem Biol*. 19:478-487.

Englert, D., E.M. Burger, F. Grun, M.S. Verma, J. Lackner, M. Lampe, B. Buhler, J. Schokolowski, G.U. Nienhaus, A. Jaschke, and M. Sunbul. 2023. Fast-exchanging spirocyclic rhodamine probes for aptamer-based super-resolution RNA imaging. *Nat Commun*. 14:3879.

Etherington, R.D., M. Bailey, J.B. Boyer, L. Armbruster, X. Cao, J.C. Coates, T. Meinnel, M. Wirtz, C. Giglione, and D.J. Gibbs. 2023. Nt-acetylation-independent turnover of SQUALENE EPOXIDASE 1 by Arabidopsis DOA10-like E3 ligases. *Plant Physiol*. 193:2086-2104.

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Garg, N., U.K. Stibler, B. Eismann, M. Mercker, B.G. Bergheim, A. Linn, P. Tuchscherer, U. Engel, S. Redl, A. Marciniak-Czochra, T.W. Holstein, M.W. Hess, and S. Ozbek. 2023. Non-muscle myosin II drives critical steps of nematocyst morphogenesis. *iScience*. 26:106291.

Kubikova, J., G. Ubartaite, J. Metz, and M. Jeske. 2023. Structural basis for binding of *Drosophila* Smaug to the GPCR Smoothed and to the germline inducer Oskar. *Proc Natl Acad Sci U S A*. 120:e2304385120.

Linke, P., N. Munding, E. Kimmle, S. Kaufmann, K. Hayashi, M. Nakahata, Y. Takashima, M. Sano, M. Bastmeyer, T. Holstein, S. Dietrich, C. Muller-Tidow, A. Harada, A.D. Ho, and M. Tanaka. 2023. Reversible Host-Guest Crosslinks in Supramolecular Hydrogels for On-Demand Mechanical Stimulation of Human Mesenchymal Stem Cells. *Adv Healthc Mater*:e2302607.

Maegele, I., S. Rupp, S. Ozbek, A. Guse, E.A. Hambleton, and T.W. Holstein. 2023. A predatory gastrula leads to symbiosis-independent settlement in *Aiptasia*. *Proc Natl Acad Sci U S A*. 120:e2311872120.

Martin-Cortecero, J., E.U. Isaias-Camacho, B. Boztepe, K. Ziegler, R.A. Mease, and A. Groh. 2023. Monosynaptic trans-collicular pathways link mouse whisker circuits to integrate somatosensory and motor cortical signals. *PLoS Biol*. 21:e3002126.

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- Miske, R., M. Scharf, K. Borowski, N. Rieckhoff, B. Teegen, Y. Denno, C. Probst, K. Guthke, I. Didrihsone, B. Wildemann, K. Ruprecht, L. Komorowski, and S. Jarius. 2023. Septin-3 autoimmunity in patients with paraneoplastic cerebellar ataxia. *J Neuroinflammation*. 20:88.
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- Onistschenko, J., S. Kaminsky, J. Vazquez-Marin, K. Gross, T. Wang, A. Seleit, M. Dorr, and L. Centanin. 2023. Temporal and clonal characterization of neural stem cell niche recruitment in the medaka neuromast. *Cells Dev*. 174:203837.
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- Tanaka, M., J. Thoma, L. Poisa-Beiro, P. Wuchter, V. Eckstein, S. Dietrich, C. Pabst, C. Muller-Tidow, T. Ohta, and A.D. Ho. 2023. Physical biomarkers for human hematopoietic stem and progenitor cells. *Cells Dev*. 174:203845.
- Veschgini, M., R. Suzuki, S. Kling, H.O. Petersen, B.G. Bergheim, W. Abuillan, P. Linke, S. Kaufmann, M. Burghammer, U. Engel, F. Stein, S. Ozbek, T.W. Holstein, and M. Tanaka. 2023. Wnt/beta-catenin signaling induces axial elasticity patterns of Hydra extracellular matrix. *iScience*. 26:106416.

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Grimm, E., F. van der Hoeven, D. Sardella, K.I. Willig, U. Engel, N. Veits, R. Engel, E.A. Cavalcanti-Adam, F. Bestvater, L. Bordoni, R. Jennemann, K. Schonig, I.M. Schiessl, and R. Sandhoff. 2022. A Clathrin light chain A reporter mouse for in vivo imaging of endocytosis. *PLoS One*. 17:e0273660.

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Linster, E., F.L. Forero Ruiz, P. Miklankova, T. Ruppert, J. Mueller, L. Armbruster, X. Gong, G. Serino, M. Mann, R. Hell, and M. Wirtz. 2022. Cotranslational N-degron masking by acetylation promotes proteome stability in plants. *Nat Commun*. 13:810

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uchs, V.A., P. Denninger, M. Župunski, Y. Jaillais, U. Engel, and G. Grossmann. 2021. Nanodomain-mediated lateral sorting drives polarization of the small GTPase ROP2 in the plasma membrane of root hair cells. *bioRxiv*.

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