

STELLARIS DLS Light Sheet Microscope Publication

Light Sheet Re-Imagined

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Digital Light Sheet Publication List

Wt1 transcription factor impairs cardiomyocyte specification and drives a phenotypic switch from myocardium to epicardium

I. J. Marques, A. Ernst, P. Arora, A. Vianin, T. Hetke, A. Sanz-Morejón, U. Naumann, A. Odriozola, X. Langa, L. Andrés-Delgado, B. Zuber, C. Torroja, M. Osterwalder, F. C. Simões, C. Englert & N. Mercader:

Development (2022) 149 (6): dev200375.

<https://pubmed.ncbi.nlm.nih.gov/35312773/>

A quantitative metric for the comparative evaluation of optical clearing protocols for 3D multicellular spheroids.

Diosdi, A., D. Hirling, M. Kovacs, T. Toth, M. Harmati, K. Koos, K. Buzas, F. Piccinini and P. Horvath (2021).

Computational and Structural Biotechnology Journal.

<https://www.sciencedirect.com/science/article/pii/S2001037021000441>

ATP activation of peritubular cells drives testicular sperm transport.

Fleck, D., L. Kenzler, N. Mundt, M. Strauch, N. Uesaka, R. Moosmann, F. Bruentgens, A. Missel, A. Mayerhofer, D. Merhof, J. Spehr and M. Spehr (2021).

Elife 10.

<https://elifesciences.org/articles/62885>

Real-time imaging and analysis of cell-hydrogel interplay within an extrusion-bioprinting capillary.

Poologasundarampillai, G., A. Haweet, S. N. Jayash, G. Morgan, J. E. Moore Jr and A. Candeo (2021). Bioprinting 23: e00144.

<https://www.sciencedirect.com/science/article/pii/S2405886621000178>

Directly imaging the localisation and photosensitization properties of the pan-mTOR inhibitor, AZD2014, in living cancer cells.

Ahmed, A. R., A. Candeo, S. D'Abrantes, S. R. Needham, R. B. Yadav, S. W. Botchway and A. W. Parker (2020). J Photochem Photobiol B 213: 112055.

<https://www.sciencedirect.com/science/article/pii/S1011134420305054>

Comparison of Transparency and Shrinkage During Clearing of Insect Brains Using Media With Tunable Refractive Index.

Bekkouche, B. M. B., H. K. M. Fritz, E. Rigosi and D. C. O'Carroll (2020).
Front Neuroanat 14: 599282.

<https://www.frontiersin.org/articles/10.3389/fnana.2020.599282/full>

New technical approaches for 3D morphological imaging and quantification of measurements.

Brenna, C., A. U. M. Khan, T. Picascia, Q. Sun, V. Heuveline and N. Gretz (2020).
Anat Rec (Hoboken) 303(10): 2702-2715.

<https://anatomypubs.onlinelibrary.wiley.com/doi/full/10.1002/ar.24463>

Polylysine Enriched Matrices: A Promising Approach for Vascular Grafts.

Fusaro, L., M. Calvo Catoira, M. Ramella, F. Sacco Botto, M. Talmon, L. G. Fresu, A. Hidalgo-Bastida and F. Boccafroschi (2020).
Front Bioeng Biotechnol 8: 281.

<https://www.frontiersin.org/articles/10.3389/fbioe.2020.00281/full>

NeuroExaminer: an all-glass microfluidic device for whole-brain in vivo imaging in zebrafish.

Mattern, K., J. W. von Trotha, P. Erfle, R. W. Koster and A. Dietzel (2020).
Commun Biol 3(1): 311.

<https://www.nature.com/articles/s42003-020-1029-7>

Intraflagellar Transport Complex B Proteins Regulate the Hippo Effector Yap1 during Cardiogenesis.

Peralta, M., L. Ortiz Lopez, K. Jerabkova, T. Lucchesi, B. Vitre, D. Han, L. Guillemot, C. Dingare, I. Sumara, N. Mercader, V. Lecaudey, B. Delaval, S. M. Meilhac and J. Vermot (2020).
Cell Rep 32(3): 107932.

<https://www.sciencedirect.com/science/article/pii/S221112472030913X>

Application of ethyl cinnamate based optical tissue clearing and expansion microscopy combined with retrograde perfusion for 3D lung imaging.

Sun, Q., T. Picascia, A. U. M. Khan, C. Brenna, V. Heuveline, A. Schmaus, J. P. Sleeman and N. Gretz (2020).
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<https://www.tandfonline.com/doi/abs/10.1080/01902148.2020.1829183?journalCode=ielu20>

Analysis of calcium signaling in live human Tongue cell 3D-Cultures upon tastant perfusion.

von Molitor, M., E. Nürnberg, T. Ertongur-Fauth, P. Scholz, K. Riedel, M. Hafner, R. Rudolf and T. Cesetti (2020).
Cell Calcium: 87

<https://www.sciencedirect.com/science/article/abs/pii/S0143416020300063>

The development of a high throughput drug-responsive model of white adipose tissue comprising adipogenic 3T3-L1 cells in a 3D matrix.

Graham, A. D., R. Pandey, V. S. Tsancheva, A. Candeo, S. W. Botchway, A. J. Allan, L. Teboul, K. Madi, T. S. Babra and L. A. Zolkiewski (2019). *Biofabrication* 12(1): 015018.

<https://iopscience.iop.org/article/10.1088/1758-5090/ab56fe>

A cationic near infrared fluorescent agent and ethyl-cinnamate tissue clearing protocol for vascular staining and imaging.

Huang, J., C. Brenna, A. U. M. Khan, C. Daniele, R. Rudolf, V. Heuveline and N. Gretz (2019). *Sci Rep* 9(1): 521.

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Light sheet microscopy to measure protein dynamics.

Rieckher, M. (2017).

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Visualization and targeting of LGR5(+) human colon cancer stem cells.

Shimokawa, M., Y. Ohta, S. Nishikori, M. Matano, A. Takano, M. Fujii, S. Date, S. Sugimoto, T. Kanai and T. Sato (2017).

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Exploring Morphological and Biochemical Linkages in Fungal Growth with Label-Free Light Sheet Microscopy and Raman Spectroscopy.

Siddhanta, S., S. K. Paidi, K. Bushley, R. Prasad and I. Barman (2017).

Chemphyschem 18(1): 72-78.

https://www.researchgate.net/publication/310323365_Exploring_Morphological_and_Biochemical_Linkages_in_Fungal_Growth_with_Label-Free_Light_Sheet_Microscopy_and_Raman_Spectroscopy

Super-Resolution Mapping of Neuronal Circuitry With an Index-Optimized Clearing Agent.

Ke, M. T., Y. Nakai, S. Fujimoto, R. Takayama, S. Yoshida, T. S. Kitajima, M. Sato and T. Imai (2016).

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Light Sheet Microscopy Turned Vertically: Light sheet module for confocal microscope enables new applications for multimodal imaging.

Köster, I. and P. Haas (2015).

Optik & Photonik 10(4): 39-43.

<https://onlinelibrary.wiley.com/doi/abs/10.1002/opph.201500028>



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