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**Cortical column and whole-brain imaging with
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#	Paper	IF	Citations
248	NRStitcher: non-rigid stitching of terapixel-scale volumetric images. 2019 , 35, 5290-5297		19
247	TeraVR empowers precise reconstruction of complete 3-D neuronal morphology in the whole brain. 2019 , 10, 3474		32
246	BigStitcher: reconstructing high-resolution image datasets of cleared and expanded samples. 2019 , 16, 870-874		104
245	Expansion Microscopy: Scalable and Convenient Super-Resolution Microscopy. 2019 , 35, 683-701		17
244	Methods for Assessing Surface Cleanliness. 2019 , 23-105		7
243	Light-Sheet Microscopy in Neuroscience. 2019 , 42, 295-313		67
242	A Review of Intrinsic Optical Imaging Serial Blockface Histology (ICI-SBH) for Whole Rodent Brain Imaging. 2019 , 6, 66		0
241	An atlas of nano-enabled neural interfaces. 2019 , 14, 645-657		80
240	Rapid single-wavelength lightsheet localization microscopy for clarified tissue. 2019 , 10, 4762		11
239	New Design of the Electrophoretic Part of CLARITY Technology for Confocal Light Microscopy of Rat and Human Brains. 2019 , 9,		0
238	Scalable and Isotropic Expansion of Tissues with Simply Tunable Expansion Ratio. 2019 , 6, 1901673		22
237	The case for emulating insect brains using anatomical "wiring diagrams" equipped with biophysical models of neuronal activity. 2019 , 113, 465-474		3
236	Light-sheet microscopy of cleared tissues with isotropic, subcellular resolution. 2019 , 16, 1109-1113		69
235	. 2019 , 5, 16-22		1
234	Molecular organization of mammalian meiotic chromosome axis revealed by expansion STORM microscopy. 2019 , 116, 18423-18428		49
233	Fast 3-D Imaging of Brain Organoids With a New Single-Objective Planar-Illumination Two-Photon Microscope. 2019 , 13, 77		20
232	Spatial and temporal tools for building a human cell atlas. <i>Molecular Biology of the Cell</i> , 2019 , 30, 2435-2438		2

231	Improved spatial resolution by induced live cell and organelle swelling in hypotonic solutions. 2019 , 9, 12911	4
230	Expansion Microscopy Imaging Technique and Its Application. 2019 , 47, 643-651	
229	3D cellular reconstruction of cortical glia and parenchymal morphometric analysis from Serial Block-Face Electron Microscopy of juvenile rat. 2019 , 183, 101696	34
228	Forgetting memories through distinct actin remodeling mechanisms. 2019 , 116, 20807-20808	
227	Three-Dimensional and Chemical Mapping of Intracellular Signaling Nanodomains in Health and Disease with Enhanced Expansion Microscopy. 2019 , 13, 2143-2157	19
226	Strategies for increasing the throughput of super-resolution microscopies. 2019 , 51, 84-91	12
225	Enabling technologies in super-resolution fluorescence microscopy: reporters, labeling, and methods of measurement. 2019 , 58, 224-232	7
224	mRNA Localization During Later Development: Past, Present, and Future. 2019 , 10, 135	11
223	Brain maps at the nanoscale. 2019 , 37, 378-380	2
222	A practical guide to optimization in X10 expansion microscopy. 2019 , 14, 832-863	53
221	Comparing 3D ultrastructure of presynaptic and postsynaptic mitochondria. 2019 , 8,	11
220	Revealing the Synaptic Hodology of Mammalian Neural Circuits With Multiscale Neurocartography. 2019 , 13, 52	1
219	References. 2019 , 177-249	
218	Challenges of Processing and Analyzing Big Data in Mesoscopic Whole-brain Imaging. 2019 , 17, 337-343	2
217	Come Fly with Me: An overview of dopamine receptors in Drosophila melanogaster. 2020 , 126 Suppl 6, 56-65	13
216	Rapid high resolution 3D imaging of expanded biological specimens with lattice light sheet microscopy. 2020 , 174, 11-19	7
215	Multiplexed expansion microscopy of the brain through fluorophore screening. 2020 , 174, 3-10	8
214	Visualizing Mitochondrial Form and Function within the Cell. 2020 , 26, 58-70	25

213	Two-beam interference lattice lightsheet for structured illumination microscopy. 2020 , 53, 044005	2
212	The Next 50 Years of Neuroscience. 2020 , 40, 101-106	9
211	Fast and accurate sCMOS noise correction for fluorescence microscopy. 2020 , 11, 94	37
210	Tissue clearing and its applications in neuroscience. 2020 , 21, 61-79	178
209	Super-resolution microscopy for analyzing neuromuscular junctions and synapses. 2020 , 715, 134644	5
208	Design and Validation of a Human Brain Endothelial Microvessel-on-a-Chip Open Microfluidic Model Enabling Advanced Optical Imaging. 2020 , 8, 573775	56
207	Super-Resolution Three-Dimensional Imaging of Actin Filaments in Cultured Cells and the Brain Expansion Microscopy. 2020 , 14, 14999-15010	11
206	Lattice Light-Sheet Microscopy Multi-dimensional Analyses (LaMDA) of T-Cell Receptor Dynamics Predict T-Cell Signaling States. 2020 , 10, 433-444.e5	10
205	Nano-imaging trace elements at organelle levels in substantia nigra overexpressing β synuclein to model Parkinson's disease. 2020 , 3, 364	3
204	The Functional Impact of Mitochondrial Structure Across Subcellular Scales. 2020 , 11, 541040	33
203	Non-invasive single-cell morphometry in living bacterial biofilms. 2020 , 11, 6151	10
202	Fast Retrograde Access to Projection Neuron Circuits Underlying Vocal Learning in Songbirds. 2020 , 33, 108364	4
201	Light microscopy of proteins in their ultrastructural context. 2020 , 11, 3850	31
200	Light microscopy based approach for mapping connectivity with molecular specificity. 2020 , 11, 4632	13
199	Transforming FIB-SEM for Large Volume Imaging: A Powerful Discovery Platform for Biological Sciences. 2020 , 26, 594-596	
198	Three-dimensional reconstruction of laryngeal cancer with whole organ serial immunohistochemical sections. 2020 , 10, 18962	3
197	A Versatile Tiling Light Sheet Microscope for Imaging of Cleared Tissues. 2020 , 33, 108349	11
196	The cell biologist's guide to super-resolution microscopy. 2020 , 133,	36

195	Homogeneous multifocal excitation for high-throughput super-resolution imaging. 2020 , 17, 726-733	18
194	Expansion Microscopy for Beginners: Visualizing Microtubules in Expanded Cultured HeLa Cells. 2020 , 92, e96	5
193	Comparison of Multiscale Imaging Methods for Brain Research. 2020 , 9,	4
192	Mapping the Brain-Wide Network Effects by Optogenetic Activation of the Corpus Callosum. 2020 , 30, 5885-5898	6
191	Single-Molecule Imaging of Protein Interactions and Dynamics. 2020 , 13, 337-361	8
190	Nanoscale imaging of clinical specimens using conventional and rapid-expansion pathology. 2020 , 15, 1649-1672	14
189	Visualizing Surface T-Cell Receptor Dynamics Four-Dimensionally Using Lattice Light-Sheet Microscopy. 2020 ,	5
188	NIR-II Chemiluminescence Molecular Sensor for In Vivo High-Contrast Inflammation Imaging. 2020 , 132, 18538-18543	11
187	Activity regulates brain development in the fly. 2020 , 65, 8-13	9
186	NIR-II Chemiluminescence Molecular Sensor for In Vivo High-Contrast Inflammation Imaging. 2020 , 59, 18380-18385	47
185	A synchrotron X-ray imaging strategy to map large animal brains. 2020 , 65, 24-32	7
184	Toward nanoscale localization of memory engrams in. 2020 , 34, 151-155	5
183	Behavioral Evolution of : Unraveling the Circuit Basis. 2020 , 11,	9
182	Dual-functional chemosensor with colorimetric/ratiometric response to Cu(II)/Zn(II) ions and its applications in bioimaging and molecular logic gates. 2020 , 177, 108255	28
181	Fluorescence microscopy tensor imaging representations for large-scale dataset analysis. 2020 , 10, 5632	4
180	Recent advances in computational methods for measurement of dendritic spines imaged by light microscopy. 2020 , 69, 196-213	12
179	Homer1a Undergoes Bimodal Transcriptional Regulation by CREB and the Circadian Clock. 2020 , 434, 161-170	5
178	Enhanced expansion microscopy to measure nanoscale structural and biochemical remodeling in single cells. 2021 , 161, 147-180	4

177	Protein-retention expansion microscopy: Improved sub-cellular imaging resolution through physical specimen expansion. 2021 , 161, 1-14	0
176	The future of cerebral organoids in drug discovery. 2021 , 111, 67-73	5
175	Current Status of Tissue Clearing and the Path Forward in Neuroscience. 2021 , 12, 5-29	4
174	POEMS (POLYMERIC OPTO-ELECTRO-MECHANICAL SYSTEMS) FOR ADVANCED NEURAL INTERFACES. 2021 , 285,	3
173	The present and the future of microstructure MRI: From a paradigm shift to normal science. 2021 , 351, 108947	9
172	Light-Sheet Fluorescence Microscopy for Multiscale Biological Imaging. 2021 , 373-382	
171	Optical Tissue Clearing: Illuminating Brain Function and Dysfunction. 2021 , 11, 3035-3051	4
170	Imaging of spine synapses using super-resolution microscopy. 2021 , 96, 343-358	1
169	Protein-Retention Expansion Microscopy (ExM): Scalable and Convenient Super-Resolution Microscopy. 2021 , 2304, 147-156	
168	Activatable Chemiluminescent Molecular Probes for Bioimaging and Biosensing. 2021 , 1, 75-89	3
167	A Picture Worth a Thousand Molecules-Integrative Technologies for Mapping Subcellular Molecular Organization and Plasticity in Developing Circuits. 2020 , 12, 615059	1
166	Expansion microscopy imaging of various neuronal structures. 2021 , 161, 83-103	
165	Extended field of view of light-sheet fluorescence microscopy by scanning multiple focus-shifted Gaussian beam arrays. 2021 , 29, 6158-6168	5
164	In vivo NIR-II structured-illumination light-sheet microscopy. 2021 , 118,	11
163	Chemical sectioning fluorescence tomography: high-throughput, high-contrast, multicolor, whole-brain imaging at subcellular resolution. 2021 , 34, 108709	7
162	REBOR: A new sketch-based 3d object retrieval framework using retina inspired features. 2021 , 80, 23297	1
161	Visualizing cellular and tissue ultrastructure using Ten-fold Robust Expansion Microscopy (TREx).	7
160	Imaging mitotic processes in three dimensions with lattice light-sheet microscopy. 2021 , 29, 37-50	3

159	Current molecular approaches to investigate pre-synaptic dysfunction. 2021 , 157, 107-129	1
158	Single Image-based Vignetting Correction for Improving the Consistency of Neural Activity Analysis in 2-Photon Functional Microscopy.	
157	A highly homogeneous polymer composed of tetrahedron-like monomers for high-isotropy expansion microscopy. 2021 , 16, 698-707	16
156	Challenges facing quantitative large-scale optical super-resolution, and some simple solutions. 2021 , 24, 102134	3
155	Expansion-Assisted Iterative-FISH defines lateral hypothalamus spatio-molecular organization.	1
154	The role of molecular diffusion within dendritic spines in synaptic function. 2021 , 153,	5
153	Super-resolving Microscopy in Neuroscience. 2021 , 121, 11971-12015	12
152	Advanced imaging and labelling methods to decipher brain cell organization and function. 2021 , 22, 237-255	28
151	Mushroom body output differentiates memory processes and distinct memory-guided behaviors. 2021 , 31, 1294-1302.e4	3
150	A simple method defines 3D morphology and axon projections of filled neurons in a small CNS volume: Steps toward understanding functional network circuitry. 2021 , 351, 109062	
149	Spatial and temporal scales of dopamine transmission. 2021 , 22, 345-358	31
148	Tools and approaches for analyzing the role of mitochondria in health, development and disease using human cerebral organoids. 2021 , 81, 591-607	2
147	Towards computational analytics of 3D neuron images using deep adversarial learning. 2021 , 438, 323-333	0
146	Super-Resolution Imaging by Dual Iterative Structured Illumination Microscopy.	1
145	Three-dimensional adaptive optical nanoscopy for thick specimen imaging at sub-50-nm resolution. 2021 , 18, 688-693	7
144	Expansion Microscopy with Multifunctional Polymer Dots. 2021 , 33, e2007854	7
143	CALM supports clathrin-coated vesicle completion upon membrane tension increase. 2021 , 118,	5
142	Spatiotemporal Insights Into RNA-Organelle Interactions in Neurons. 2021 , 9, 663367	0

141	Can Developments in Tissue Optical Clearing Aid Super-Resolution Microscopy Imaging?. 2021 , 22,	
140	Optical volumetric brain imaging: speed, depth, and resolution enhancement. 2021 , 54, 323002	6
139	Expansion Microscopy with a Thermally Adjustable Expansion Factor Using Thermoresponsive Biospecimen-Hydrogel Hybrids. 2021 , 13, 28962-28974	1
138	Expansion microscopy: A powerful nanoscale imaging tool for neuroscientists. 2021 , 154, 105362	8
137	Imaging of In Vitro and In Vivo Neurons in Drosophila Using Stochastic Optical Reconstruction Microscopy. 2021 , 1, e203	
136	From whole organism to ultrastructure: progress in axonal imaging for decoding circuit development. 2021 , 148,	0
135	A hybrid erbium(III)-bacteriochlorin near-infrared probe for multiplexed biomedical imaging. 2021 , 20, 1571-1578	29
134	High-throughput mapping of a whole rhesus monkey brain at micrometer resolution. 2021 ,	11
133	Improved blind demixing methods for recovering dense neuronal morphology from barcode imaging data.	
132	Basic principles of hydrogel-based tissue transformation technologies and their applications. 2021 , 184, 4115-4136	10
131	A serotonergic axon-cilium synapse drives nuclear signaling to maintain chromatin accessibility.	0
130	High-resolution imaging and manipulation of endogenous AMPA receptor surface mobility during synaptic plasticity and learning.	
129	Protein-retention expansion microscopy for visualizing subcellular organelles in fixed brain tissue. 2021 , 361, 109285	1
128	Volumetric ultrasound localization microscopy of the whole brain microvasculature.	1
127	Progress towards a cellularly resolved mouse mesoconnectome is empowered by data fusion and new neuroanatomy techniques. 2021 , 128, 569-591	1
126	Real-time Noise-suppressed Wide-Dynamic-Range Compression in Ultrahigh-Resolution Neuronal Imaging.	
125	A Pictorial History of the Neuronal Cytoskeleton. 2021 , 41, 11-27	6
124	Imaging intercellular interaction and extracellular vesicle exchange in a co-culture model of chronic lymphocytic leukemia and stromal cells by lattice light-sheet fluorescence microscopy. 2020 , 645, 79-107	2

123	EASE: EM-Assisted Source Extraction from calcium imaging data.	3
122	A Versatile Oblique Plane Microscope for Large-Scale and High-Resolution Imaging of Subcellular Dynamics.	6
121	Non-Invasive Single-Cell Morphometry in Living Bacterial Biofilms.	1
120	Anin-vitroBBB-on-a-chip open model of human blood-brain barrier enabling advanced optical imaging.	2
119	The connectome of the adult Drosophila mushroom body: implications for function.	9
118	NuMorph: tools for cellular phenotyping in tissue cleared whole brain images.	3
117	A comprehensive, FAIR file format for neuroanatomical structure modeling.	3
116	High-throughput whole-brain mapping of rhesus monkey at micron resolution.	2
115	Light-sheet microscopy with isotropic, sub-micron resolution and solvent-independent large-scale imaging.	2
114	Dense neuronal reconstruction through X-ray holographic nano-tomography.	8
113	A highly homogeneous expansion microscopy polymer composed of tetrahedron-like monomers.	5
112	A versatile tiling light sheet microscope for cleared tissues imaging.	1
111	Enabling FIB-SEM Systems for Large Volume Connectomics and Cell Biology.	9
110	Systematic and quantitative comparison of lattice and Gaussian light-sheets. 2020 , 28, 27052-27077	13
109	Digital Spindle: A New Way to Explore Mitotic Functions by Whole Cell Data Collection and a Computational Approach. 2020 , 9,	1
108	Nitric oxide acts as a cotransmitter in a subset of dopaminergic neurons to diversify memory dynamics. 2019 , 8,	41
107	A versatile oblique plane microscope for large-scale and high-resolution imaging of subcellular dynamics. 2020 , 9,	39
106	The connectome of the adult Drosophila mushroom body provides insights into function. 2020 , 9,	70

105	An adaptive microscope for the imaging of biological surfaces. 2021 , 10, 210		1
104	Inhibition of LRRK2 kinase activity promotes anterograde axonal transport and presynaptic targeting of β synuclein.		
103	Expansion light sheet fluorescence microscopy of extended biological samples: Applications and perspectives. 2021 , 168, 33-33		1
102	NuMorph: Tools for cortical cellular phenotyping in tissue-cleared whole-brain images. 2021 , 37, 109802		1
101	A Comprehensive, FAIR File Format for Neuroanatomical Structure Modeling. 2021 , 1		1
100	TeraVR Empowers Precise Reconstruction of Complete 3-D Neuronal Morphology in the Whole Brain.		0
99	How neurons move during action potentials.		3
98	Light microscopy based approach for mapping connectivity with molecular specificity.		2
97	Hybrid multifocal structured illumination microscopy with enhanced lateral resolution and axial localization capability. <i>Biomedical Optics Express</i> , 2020 , 11, 3058-3070	3.5	2
96	A systematic and quantitative comparison of lattice and Gaussian light-sheets.		
95	Super-Resolution Fluorescence Microscopy Using Light-Matter Interactions. 2020 , 86, 524-528		
94	Optically Accessible Microfluidic Flow Channels for Noninvasive High-Resolution Biofilm Imaging Using Lattice Light Sheet Microscopy. 2021 , 125, 12187-12196		0
93	Visualizing subcellular structures in neuronal tissue with expansion microscopy.		
92	Confocal Bessel Beam Light-sheet and Expansion Microscopy for Axonal Connectomics of Mammalian Brains. 2021 ,		
91	Homogeneous multifocal excitation for high-throughput super-resolution imaging.		
90	Light-Sheet Fluorescence Microscopy. 2020 , 173-211		
89	Transforming FIB-SEM Systems for Large-Volume Connectomics and Cell Biology. 2020 , 221-243		5
88	Fast retrograde access to projection neuron circuits underlying vocal learning in songbirds.		

87	DIVA: natural navigation inside 3D images using virtual reality.	1
86	Advanced Technologies for Local Neural Circuits in the Cerebral Cortex. 2021 , 15, 757499	0
85	Inhibition of LRRK2 kinase activity promotes anterograde axonal transport and presynaptic targeting of β -synuclein. 2021 , 9, 180	0
84	Light sheet fluorescence microscopy. 2021 , 1,	15
83	Synaptic counts approximate synaptic contact area in Drosophila.	3
82	Advanced imaging/MRI for tissue engineering. 2022 , 281-343	
81	Light Sheet Illumination for 3D Single-Molecule Super-Resolution Imaging of Neuronal Synapses.. 2021 , 13, 761530	1
80	BCM3D 2.0: Accurate segmentation of single bacterial cells in dense biofilms using computationally generated intermediate image representations.	0
79	Rapid reconstruction of neural circuits using tissue expansion and lattice light sheet microscopy.	1
78	Imaging Three-Dimensional Brain Organoid Architecture from Meso- to Nanoscale across Development.	
77	Single Image-Based Vignetting Correction for Improving the Consistency of Neural Activity Analysis in 2-Photon Functional Microscopy.. 2021 , 15, 674439	
76	Strong emission of excimers realized by dense packing of pyrenes in tailored bola-amphiphile nano assemblies. 2022 , 100734	1
75	Towards a Comprehensive Optical Connectome at Single Synapse Resolution Expansion Microscopy.. 2021 , 13, 754814	1
74	New Approach to Accelerated Image Annotation by Leveraging Virtual Reality and Cloud Computing. 2022 , 1,	0
73	Development of Planar Illumination Strategies for Solving Mysteries in the Sub-Cellular Realm.. 2022 , 23,	1
72	Advanced high resolution three-dimensional imaging to visualize the cerebral neurovascular network in stroke.. 2022 , 18, 552-571	0
71	Technological advances in super-resolution microscopy to study cellular processes.. 2022 , 82, 315-332	3
70	A guide for single-particle chromatin tracking in live cell nuclei.. 2022 ,	

69	A rapid denoised contrast enhancement method digitally mimicking an adaptive illumination in submicron-resolution neuronal imaging.. 2022 , 25, 103773	
68	TISSUE CLEARING.. 2021 , 1,	5
67	Expansion Microscopy of Larval Zebrafish Brains and Zebrafish Embryos.. 2022 , 2440, 211-222	1
66	Quantum Neurobiology. 2022 , 4, 107-126	1
65	Visualizing cellular and tissue ultrastructure using Ten-fold Robust Expansion Microscopy (TREx).. 2022 , 11,	5
64	Flip-Flap: A Simple Dual-View Imaging Method for 3D Reconstruction of Thick Plant Samples.. 2022 , 11,	
63	A Deep Learning-Based Workflow for Dendritic Spine Segmentation.. 2022 , 16, 817903	0
62	Saturated reconstruction of living brain tissue.	1
61	Simultaneous expansion microscopy imaging of proteins and mRNAs via dual-ExM.. 2022 , 12, 3360	1
60	Synaptic counts approximate synaptic contact area in Drosophila.. 2022 , 17, e0266064	1
59	The Convergence Model of Brain Reward Circuitry: Implications for Relief of Treatment-Resistant Depression by Deep-Brain Stimulation of the Medial Forebrain Bundle.. 2022 , 16, 851067	0
58	Blind demixing methods for recovering dense neuronal morphology from barcode imaging data.. 2022 , 18, e1009991	0
57	Revisiting PFA-mediated tissue fixation chemistry: FixEL enables trapping of small molecules in the brain to visualize their distribution dynamics.	
56	Spatial determinates of effector and memory CD8 T cell fates. 2021 ,	0
55	EASI-FISH for thick tissue defines lateral hypothalamus spatio-molecular organization. 2021 ,	5
54	High-Resolution Digital Panorama of Multiple Structures in Whole Brain of Alzheimer'S Disease Mice.. 2022 , 16, 870520	1
53	Video_1.mp4. 2020 ,	
52	Video_2.avi. 2020 ,	

51	Video_3.avi. 2020 ,		
50	Video_4.avi. 2020 ,		
49	Video_5.avi. 2020 ,		
48	Data_Sheet_1.PDF. 2019 ,		
47	Data_Sheet_2.docx. 2019 ,		
46	Combining multiple fluorescence imaging techniques in biology: when one microscope is not enough.. <i>Molecular Biology of the Cell</i> , 2022 , 33, tp1	3.5	0
45	The Cell Physiome: What Do We Need in a Computational Physiology Framework for Predicting Single-Cell Biology?. <i>Annual Review of Biomedical Data Science</i> , 2022 ,	5.6	
44	Myelin Imaging. 2022 , 81-94		
43	High-speed 3D imaging flow cytometry with optofluidic spatial transformation. <i>Biomedical Optics Express</i> , 2022 , 13, 3647	3.5	0
42	Nanoscale fluorescence imaging of biological ultrastructure via molecular anchoring and physical expansion. <i>Nano Convergence</i> , 2022 , 9,	9.2	1
41	Decoding the mouse spinal cord locomotor neural network using tissue clearing, tissue expansion and tiling light sheet microscopy techniques.		1
40	Getting sharper: the brain under the spotlight of super-resolution microscopy. <i>Trends in Cell Biology</i> , 2022 ,	18.3	0
39	On Some Current Challenges in High-Resolution Optical Bioimaging. <i>ACS Photonics</i> ,	6.3	1
38	High-resolution imaging and manipulation of endogenous AMPA receptor surface mobility during synaptic plasticity and learning. 2022 , 8,		0
37	Single-molecule localization microscopy reveals the ultrastructural root constitution of distal appendages in expanded mammalian centrioles.		
36	Presynaptic supervision of cortical spine dynamics in motor learning. 2022 , 8,		0
35	Imaging three-dimensional brain organoid architecture from meso- to nanoscale across development. 2022 , 149,		4
34	Uncovering brain tissue architecture across scales with super-resolution light microscopy.		1

33	Deep neural network automated segmentation of cellular structures in volume electron microscopy.	
32	Imaging three-dimensional dynamics of plasma membrane structures using ultrathin plane illumination microscopy. 2023 , 357-374	0
31	3D Soma Detection in Large-Scale Whole Brain Images via a Two-Stage Neural Network. 2022 , 1-1	0
30	A serotonergic axon-cilium synapse drives nuclear signaling to alter chromatin accessibility. 2022 , 185, 3390-3407.e18	4
29	Fluorescent transgenic mouse models for whole-brain imaging in health and disease. 15,	0
28	Promoting validation and cross-phylogenetic integration in model organism research. 2022 , 15,	2
27	Multiscale imaging informs translational mouse modeling of neurological disease. 2022 ,	0
26	Volumetric ultrasound localization microscopy of the whole rat brain microvasculature. 2022 , 1-1	1
25	Rapid reconstruction of neural circuits using tissue expansion and light sheet microscopy. 11,	0
24	Cerebral Malaria and Neuronal Implications of Plasmodium Falciparum Infection: From Mechanisms to Advanced Models. 2202944	0
23	Practical considerations for quantitative light sheet fluorescence microscopy.	1
22	Meeting Zn Needs during Medaka Eye Development: Nanoscale Visualization of Retina by Expansion Microscopy.	0
21	Large-scale expanded sample imaging with tiling lattice lightsheet microscopy. 2023 , 154, 106340	0
20	SYNAPSE: An international roadmap to large brain imaging. 2023 , 999, 1-60	0
19	Microscopy mash-up quantifies, maps neural circuits.	0
18	IMPASTO: Multiplexed cyclic imaging without signal removal via self-supervised neural unmixing.	0
17	Multi-scale microscopy to decipher plant cell structure and dynamics.	0
16	Revisiting PFA-mediated tissue fixation chemistry: FixEL enables trapping of small molecules in the brain to visualize their distribution changes. 2022 ,	0

- 15 BCM3D 2.0: accurate segmentation of single bacterial cells in dense biofilms using computationally generated intermediate image representations. **2022**, 8,
- 14 Deep neural network automated segmentation of cellular structures in volume electron microscopy. **2023**, 222,
- 13 Structural and functional imaging of brains.
- 12 Multiple airy beams light-sheet fluorescence microscopy. 10,
- 11 Microfluidic cell engineering on high-density microelectrode arrays for assessing structure-function relationships in living neuronal networks. 16,
- 10 Recording of cellular physiological histories along optically readable self-assembling protein chains.
- 9 Expansion Microscopy: Super-Resolution Imaging with Hydrogels. **2023**, 95, 3-32
- 8 Electrochemiluminescence from Single Molecule to Imaging. **2023**, 95, 374-387
- 7 Heat Release by Isolated Mouse Brain Mitochondria Detected with Diamond Thermometer. **2023**, 13, 98
- 6 Current Progress in Expansion Microscopy: Chemical Strategies and Applications. **2023**, 123, 3299-3323
- 5 Single-molecule localization microscopy reveals the ultrastructural constitution of distal appendages in expanded mammalian centrioles. **2023**, 14,
- 4 Expansion-enhanced super-resolution radial fluctuations enable nanoscale molecular profiling of pathology specimens. **2023**, 18, 336-342
- 3 Aptamer-based expansion microscopy platform enables signal-amplified imaging of dendritic spines. **2023**, 260, 124541
- 2 A rapid and bidirectional reporter of neural activity reveals neural correlates of social behaviors in *Drosophila*.
- 1 Rapid, artifact-reduced, image reconstruction for super-resolution structured illumination microscopy. **2023**, 100425