

# Yannick Schwab

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

6,225  
citations

76196

40  
h-index

82410

72  
g-index

111  
all docs

111  
docs citations

111  
times ranked

12204  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Software tools for automated transmission electron microscopy. <i>Nature Methods</i> , 2019, 16, 471-477.   | 9.0  | 367       |
| 2  | The V0-ATPase mediates apical secretion of exosomes containing Hedgehog-related proteins in <i>Caenorhabditis elegans</i> . <i>Journal of Cell Biology</i> , 2006, 173, 949-961.  | 2.3  | 281       |
| 3  | Ultrastructural Characterization of Zika Virus Replication Factories. <i>Cell Reports</i> , 2017, 18, 2113-2123.  | 2.9  | 274       |
| 4  | Selective autophagy degrades DICER and AGO2 and regulates miRNA activity. <i>Nature Cell Biology</i> , 2012, 14, 1314-1321.   | 4.6  | 225       |
| 5  | Hemodynamic Forces Tune the Arrest, Adhesion, and Extravasation of Circulating Tumor Cells. <i>Developmental Cell</i> , 2018, 45, 33-52.e12.  | 3.1  | 219       |
| 6  | Integrative Imaging Reveals SARS-CoV-2-Induced Reshaping of Subcellular Morphologies. <i>Cell Host and Microbe</i> , 2020, 28, 853-866.e5.  | 5.1  | 213       |
| 7  | Dengue Virus Perturbs Mitochondrial Morphodynamics to Dampen Innate Immune Responses. <i>Cell Host and Microbe</i> , 2016, 20, 342-356.   | 5.1  | 207       |
| 8  | STARD3/STARD3NL and VAP make a novel molecular tether between late endosomes and the ER. <i>Journal of Cell Science</i> , 2013, 126, 5500-12.   | 1.2  | 206       |
| 9  | RAL-1 controls multivesicular body biogenesis and exosome secretion. <i>Journal of Cell Biology</i> , 2015, 211, 27-37.   | 2.3  | 193       |
| 10 | Endothelial Cilia Mediate Low Flow Sensing during Zebrafish Vascular Development. <i>Cell Reports</i> , 2014, 6, 799-808.   | 2.9  | 180       |
| 11 | In-cell architecture of the nuclear pore and snapshots of its turnover. <i>Nature</i> , 2020, 586, 796-800.   | 13.7 | 139       |
| 12 | Luminal signalling links cell communication to tissue architecture during organogenesis. <i>Nature</i> , 2014, 515, 120-124.  | 13.7 | 129       |
| 13 | Insulin secretory granules control autophagy in pancreatic $\beta$ cells. <i>Science</i> , 2015, 347, 878-882.  | 6.0  | 127       |
| 14 | Dendritically released transmitters cooperate via autocrine and retrograde actions to inhibit afferent excitation in rat brain. <i>Journal of Physiology</i> , 2004, 559, 611-624.  | 1.3  | 124       |
| 15 | AAV-mediated intramuscular delivery of myotubularin corrects the myotubular myopathy phenotype in targeted murine muscle and suggests a function in plasma membrane homeostasis. <i>Human Molecular Genetics</i> , 2008, 17, 2132-2143. | 1.4  | 115       |
| 16 | Defects in amphiphysin 2 (BIN1) and triads in several forms of centronuclear myopathies. <i>Acta Neuropathologica</i> , 2011, 121, 253-266.   | 3.9  | 113       |
| 17 | Profiling cellular diversity in sponges informs animal cell type and nervous system evolution. <i>Science</i> , 2021, 374, 717-723.   | 6.0  | 111       |
| 18 | Pre-assembled Nuclear Pores Insert into the Nuclear Envelope during Early Development. <i>Cell</i> , 2016, 166, 664-678.  | 13.5 | 101       |

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|----|--|------|-----------|
| 19 | A <i>Caenorhabditis elegans</i> model for epithelial neuronal transdifferentiation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3790-3795. | 3.3  | 98        |
| 20 | Autistic-Like Syndrome in Mu Opioid Receptor Null Mice is Relieved by Facilitated mGluR4 Activity. Neuropsychopharmacology, 2014, 39, 2049-2060.   | 2.8  | 97        |
| 21 | Fast and precise targeting of single tumor cells <i>in vivo</i> by multimodal correlative microscopy. Journal of Cell Science, 2016, 129, 444-56.  | 1.2  | 97        |
| 22 | The glutamate transporter EAAT5 works as a presynaptic receptor in mouse rod bipolar cells. Journal of Physiology, 2006, 577, 221-234.   | 1.3  | 93        |
| 23 | Nuclear Pores Assemble from Nucleoporin Condensates During Oogenesis. Cell, 2019, 179, 671-686.e17.  | 13.5 | 87        |
| 24 | Intravital Correlative Microscopy: Imaging Life at the Nanoscale. Trends in Cell Biology, 2016, 26, 848-863.   | 3.6  | 86        |
| 25 | Spatiotemporal Coupling of the Hepatitis C Virus Replication Cycle by Creating a Lipid Droplet-Proximal Membranous Replication Compartment. Cell Reports, 2019, 27, 3602-3617.e5.          | 2.9  | 86        |
| 26 | The BAR Domain Protein Arfaptin-1 Controls Secretory Granule Biogenesis at the trans-Golgi Network. Developmental Cell, 2012, 23, 756-768.   | 3.1  | 85        |
| 27 | Acetylated tubulin is essential for touch sensation in mice. ELife, 2016, 5, .   | 2.8  | 78        |
| 28 | Enterocyte Purge and Rapid Recovery Is a Resilience Reaction of the Gut Epithelium to Pore-Forming Toxin Attack. Cell Host and Microbe, 2016, 20, 716-730.                                 | 5.1  | 77        |
| 29 | Postmitotic nuclear pore assembly proceeds by radial dilation of small membrane openings. Nature Structural and Molecular Biology, 2018, 25, 21-28.  | 3.6  | 75        |
| 30 | A precise and rapid mapping protocol for correlative light and electron microscopy of small invertebrate organisms. Biology of the Cell, 2010, 102, 121-132.                               | 0.7  | 72        |
| 31 | A pathway for unicellular tube extension depending on the lymphatic vessel determinant Prox1 and on osmoregulation. Nature Cell Biology, 2013, 15, 157-168.                                | 4.6  | 72        |
| 32 | Single organelle dynamics linked to 3D structure by correlative live-cell imaging and 3D electron microscopy. Traffic, 2018, 19, 354-369.  | 1.3  | 72        |
| 33 | From Dynamic Live Cell Imaging to 3D Ultrastructure: Novel Integrated Methods for High Pressure Freezing and Correlative Light-Electron Microscopy. PLoS ONE, 2010, 5, e9014.              | 1.1  | 70        |
| 34 | Amphiphysin 2 Orchestrates Nucleus Positioning and Shape by Linking the Nuclear Envelope to the Actin and Microtubule Cytoskeleton. Developmental Cell, 2015, 35, 186-198.                 | 3.1  | 65        |
| 35 | Whole-body integration of gene expression and single-cell morphology. Cell, 2021, 184, 4819-4837.e22.  | 13.5 | 65        |
| 36 | Dynamics of <i>in vivo</i> ASC speck formation. Journal of Cell Biology, 2017, 216, 2891-2909.   | 2.3  | 60        |

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|----|---|------|-----------|
| 37 | Tunneling nanotube-mediated intercellular vesicle and protein transfer in the stroma-provided imatinib resistance in chronic myeloid leukemia cells. <i>Cell Death and Disease</i> , 2019, 10, 817. | 2.7  | 59        |
| 38 | Lysosomal degradation of newly formed insulin granules contributes to $\beta$ cell failure in diabetes. <i>Nature Communications</i> , 2019, 10, 3312.  | 5.8  | 53        |
| 39 | Myotubularin and PtdIns3P remodel the sarcoplasmic reticulum in muscle <i>in vivo</i> . <i>Journal of Cell Science</i> , 2013, 126, 1806-19.  | 1.2  | 51        |
| 40 | Morphological bases of phytoplankton energy management and physiological responses unveiled by 3D subcellular imaging. <i>Nature Communications</i> , 2021, 12, 1049.                               | 5.8  | 51        |
| 41 | Asymmetric Centriole Numbers at Spindle Poles Cause Chromosome Missegregation in Cancer. <i>Cell Reports</i> , 2017, 20, 1906-1920.   | 2.9  | 49        |
| 42 | Distinct mechanisms eliminate mother and daughter centrioles in meiosis of starfish oocytes. <i>Journal of Cell Biology</i> , 2016, 212, 815-827.   | 2.3  | 48        |
| 43 | Correlating Intravital Multi-Photon Microscopy to 3D Electron Microscopy of Invading Tumor Cells Using Anatomical Reference Points. <i>PLoS ONE</i> , 2014, 9, e114448.                             | 1.1  | 46        |
| 44 | In vivo testing of gold nanoparticles using the <i>Caenorhabditis elegans</i> model organism. <i>Acta Biomaterialia</i> , 2017, 53, 598-609.  | 4.1  | 46        |
| 45 | Volume electron microscopy. <i>Nature Reviews Methods Primers</i> , 2022, 2, .  | 11.8 | 46        |
| 46 | Algal Remodeling in a Ubiquitous Planktonic Photosymbiosis. <i>Current Biology</i> , 2019, 29, 968-978.e4.  | 1.8  | 45        |
| 47 | Human prion protein binds Argonaute and promotes accumulation of microRNA effector complexes. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 517-524.                                   | 3.6  | 43        |
| 48 | Find your way with X-Ray. <i>Methods in Cell Biology</i> , 2017, 140, 277-301.  | 0.5  | 42        |
| 49 | Bio-identity and fate of albumin-coated SPIONs evaluated in cells and by the <i>C. elegans</i> model. <i>Acta Biomaterialia</i> , 2016, 43, 348-357.  | 4.1  | 41        |
| 50 | <i>In Vivo</i> Visualization of Delta Opioid Receptors upon Physiological Activation Uncovers a Distinct Internalization Profile. <i>Journal of Neuroscience</i> , 2012, 32, 7301-7310.             | 1.7  | 39        |
| 51 | Targeted Ultramicrotomy. <i>Methods in Cell Biology</i> , 2012, 111, 203-222.   | 0.5  | 39        |
| 52 | The podocyte protein nephrin is required for cardiac vessel formation. <i>Human Molecular Genetics</i> , 2011, 20, 2182-2194.   | 1.4  | 38        |
| 53 | Mammalian retinal horizontal cells are unconventional GABAergic neurons. <i>Journal of Neurochemistry</i> , 2011, 116, 350-362.   | 2.1  | 37        |
| 54 | AMST: Alignment to Median Smoothed Template for Focused Ion Beam Scanning Electron Microscopy Image Stacks. <i>Scientific Reports</i> , 2020, 10, 2004.   | 1.6  | 37        |

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|----|---|-----|-----------|
| 55 | High-precision targeting workflow for volume electron microscopy. <i>Journal of Cell Biology</i> , 2021, 220, .   | 2.3 | 33        |
| 56 | Minimal resin embedding of multicellular specimens for targeted FIB-SEM imaging. <i>Methods in Cell Biology</i> , 2017, 140, 69-83.   | 0.5 | 32        |
| 57 | Mouse Delta Opioid Receptors are Located on Presynaptic Afferents to Hippocampal Pyramidal Cells. <i>Cellular and Molecular Neurobiology</i> , 2012, 32, 509-516.   | 1.7 | 31        |
| 58 | Local blood coagulation drives cancer cell arrest and brain metastasis in a mouse model. <i>Blood</i> , 2021, 137, 1219-1232.   | 0.6 | 31        |
| 59 | Calcium-dependent translocation of synaptotagmin to the plasma membrane in the dendrites of developing neurones. <i>Molecular Brain Research</i> , 2001, 96, 1-13.  | 2.5 | 28        |
| 60 | Cytoklepty in the plankton: A host strategy to optimize the bioenergetic machinery of endosymbiotic algae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .                              | 3.3 | 27        |
| 61 | Quantifying Golgi structure using EM: combining volume-SEM and stereology for higher throughput. <i>Histochemistry and Cell Biology</i> , 2017, 147, 653-669.   | 0.8 | 26        |
| 62 | Cell and tissue manipulation with ultrashort infrared laser pulses in light-sheet microscopy. <i>Scientific Reports</i> , 2020, 10, 1942.   | 1.6 | 26        |
| 63 | DYC-1, a Protein Functionally Linked to Dystrophin in <i>Caenorhabditis elegans</i> Is Associated with the Dense Body, Where It Interacts with the Muscle LIM Domain Protein ZYX-1. <i>Molecular Biology of the Cell</i> , 2008, 19, 785-796. | 0.9 | 25        |
| 64 | Dynamic Buffering of Extracellular Chemokine by a Dedicated Scavenger Pathway Enables Robust Adaptation during Directed Tissue Migration. <i>Developmental Cell</i> , 2020, 52, 492-508.e10.  | 3.1 | 25        |
| 65 | Transcytosis via the late endocytic pathway as a cell morphogenetic mechanism. <i>EMBO Journal</i> , 2020, 39, e105332.   | 3.5 | 23        |
| 66 | Innovating carbon-capture biotechnologies through ecosystem-inspired solutions. <i>One Earth</i> , 2021, 4, 49-59.  | 3.6 | 21        |
| 67 | Spatial control of nucleoporin condensation by fragile X-related proteins. <i>EMBO Journal</i> , 2020, 39, e104467.   | 3.5 | 21        |
| 68 | Endogenous modulators of synaptic transmission: cannabinoid regulation in the supraoptic nucleus. <i>Progress in Brain Research</i> , 2008, 170, 129-136.   | 0.9 | 19        |
| 69 | Systems biology in 3D space “enter the morphome. <i>Trends in Cell Biology</i> , 2015, 25, 59-64.   | 3.6 | 19        |
| 70 | Correlative Light and Electron Microscopy: From Live Cell Dynamic to 3D Ultrastructure. <i>Methods in Molecular Biology</i> , 2014, 1117, 485-501.  | 0.4 | 18        |
| 71 | Using Correlative Light and Electron Microscopy to Study Zebrafish Vascular Morphogenesis. <i>Methods in Molecular Biology</i> , 2015, 1189, 31-46.   | 0.4 | 15        |
| 72 | Birbeck Granule-Like “Organized Smooth Endoplasmic Reticulum” Resulting from the Expression of a Cytoplasmic YFP-Tagged Langerin. <i>PLoS ONE</i> , 2013, 8, e60813.  | 1.1 | 15        |

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|----|---|-----|-----------|
| 73 | Correlative Light Electron Microscopy (CLEM) for Tracking and Imaging Viral Protein Associated Structures in Cryo-immobilized Cells. <i>Journal of Visualized Experiments</i> , 2018, , .                                     | 0.2 | 14        |
| 74 | Subcellular architecture and metabolic connection in the planktonic photosymbiosis between <i>Collodaria</i> (radiolarians) and their microalgae. <i>Environmental Microbiology</i> , 2021, 23, 6569-6586.                    | 1.8 | 14        |
| 75 | Physiological Maturation of Photoreceptors Depends on the Voltage-Gated Sodium Channel NaV1.6 (Scn8a). <i>Journal of Neuroscience</i> , 2005, 25, 5046-5050.  | 1.7 | 13        |
| 76 | PAT-12, a potential anti-nematode target, is a new spectraplakins partner essential for <i>Caenorhabditis elegans</i> hemidesmosome integrity and embryonic morphogenesis. <i>Developmental Biology</i> , 2011, 350, 267-278. | 0.9 | 13        |
| 77 | Mesopolysaccharides: The extracellular surface layer of visceral organs. <i>PLoS ONE</i> , 2020, 15, e0238798.  | 1.1 | 13        |
| 78 | MOSPD2 is an endoplasmic reticulumâ€“lipid droplet tether functioning in LD homeostasis. <i>Journal of Cell Biology</i> , 2022, 221, .  | 2.3 | 13        |
| 79 | Structural Analysis of the <i>Caenorhabditis elegans</i> Dauer Larval Anterior Sensilla by Focused Ion Beam-Scanning Electron Microscopy. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 732520.                                | 0.9 | 12        |
| 80 | Intracellular development and impact of a marine eukaryotic parasite on its zombified microalgal host. <i>ISME Journal</i> , 2022, 16, 2348-2359.   | 4.4 | 10        |
| 81 | Photonic-chip assisted correlative light and electron microscopy. <i>Communications Biology</i> , 2020, 3, 739.   | 2.0 | 9         |
| 82 | A new method for cryo-sectioning cell monolayers using a correlative workflow. <i>Methods in Cell Biology</i> , 2017, 140, 85-103.  | 0.5 | 7         |
| 83 | Distinct Trafficking of Cell Surface and Endosomal <scp>TIM</scp>â€“1 to the Immune Synapse. <i>Traffic</i> , 2015, 16, 1193-1207.  | 1.3 | 6         |
| 84 | Expression of tetrodotoxin-sensitive and resistant sodium channels by rat melanotrophs. <i>NeuroReport</i> , 2004, 15, 1219-1223.   | 0.6 | 5         |
| 85 | Correlated light and electron microscopy of cell division in large marine oocytes, eggs, and embryos. <i>Methods in Cell Biology</i> , 2018, 145, 293-313.  | 0.5 | 2         |
| 86 | Minimal Resin Embedding of Multicellular Specimens for Targeted FIB-SEM Imaging. <i>Microscopy and Microanalysis</i> , 2017, 23, 1274-1275.   | 0.2 | 1         |
| 87 | MoBIE: A free and open-source platform for integration and cloud-based sharing of multi-modal correlative big image data. <i>Microscopy and Microanalysis</i> , 2021, 27, 2588-2589.  | 0.2 | 1         |
| 88 | Whole Body Integration of Gene Expression and Morphology Using Correlative Volume EM. <i>Microscopy and Microanalysis</i> , 2020, 26, 1044-1045.  | 0.2 | 0         |
| 89 | Synthetic Patches, Real Images: Screening for Centrosome Aberrations in EM Images of Human Cancer Cells. <i>Lecture Notes in Computer Science</i> , 2019, , 523-531.  | 1.0 | 0         |
| 90 | High-Throughput Immunofluorescence and Electron Tomography to Characterize Centrosomal Aberrations in Plasma Cell Neoplasia. <i>Blood</i> , 2019, 134, 3077-3077.   | 0.6 | 0         |

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|----|--|-----|-----------|
| 91 | Multi-Modality Imaging Reveals Structural Centrosome Aberrations As a Potential Driver of Chromosomal Instability in Early-Stage Plasma Cell Disorders. Blood, 2021, 138, 1579-1579. | 0.6 | 0         |