

# Eric Hanssen

## List of Publications by Year in descending order

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119  
papers

6,223  
citations

50276

46  
h-index

82547

72  
g-index

123  
all docs

123  
docs citations

123  
times ranked

8929  
citing authors

#	ARTICLE	IF	CITATIONS
1	A molecular nematic liquid crystalline material for high-performance organic photovoltaics. <i>Nature Communications</i> , 2015, 6, 6013.	12.8	541
2	Cryo-EM structure of the <i>Plasmodium falciparum</i> 80S ribosome bound to the anti-protozoan drug emetine. <i>ELife</i> , 2014, 3, .	6.0	274
3	Digestive-vacuole genesis and endocytic processes in the early intraerythrocytic stages of <i>Plasmodium falciparum</i> . <i>Journal of Cell Science</i> , 2010, 123, 441-450.	2.0	160
4	Molecular Interactions of Biglycan and Decorin with Elastic Fiber Components. <i>Journal of Biological Chemistry</i> , 2002, 277, 3950-3957.	3.4	144
5	Soft X-ray microscopy analysis of cell volume and hemoglobin content in erythrocytes infected with asexual and sexual stages of <i>Plasmodium falciparum</i> . <i>Journal of Structural Biology</i> , 2012, 177, 224-232.	2.8	139
6	Fetuin-A-Containing Calciprotein Particles Reduce Mineral Stress in the Macrophage. <i>PLoS ONE</i> , 2013, 8, e60904.	2.5	138
7	The role of solvent vapor annealing in highly efficient air-processed small molecule solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9048.	10.3	133
8	Prion $\alpha$ -infected cells regulate the release of exosomes with distinct ultrastructural features. <i>FASEB Journal</i> , 2012, 26, 4160-4173.	0.5	131
9	Mefloquine targets the <i>Plasmodium falciparum</i> 80S ribosome to inhibit protein synthesis. <i>Nature Microbiology</i> , 2017, 2, 17031.	13.3	128
10	High Aspect Ratio Nanostructures Kill Bacteria <i>via</i> Storage and Release of Mechanical Energy. <i>ACS Nano</i> , 2018, 12, 6657-6667.	14.6	120
11	The multi-faceted mechano-bactericidal mechanism of nanostructured surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12598-12605.	7.1	119
12	LTBP-2 specifically interacts with the amino-terminal region of fibrillin-1 and competes with LTBP-1 for binding to this microfibrillar protein. <i>Matrix Biology</i> , 2007, 26, 213-223.	3.6	116
13	Artemisinin and a Series of Novel Endoperoxide Antimalarials Exert Early Effects on Digestive Vacuole Morphology. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 98-109.	3.2	112
14	Origin, composition, organization and function of the inner membrane complex of <i>Plasmodium falciparum</i> gametocytes. <i>Journal of Cell Science</i> , 2012, 125, 2053-63.	2.0	105
15	Antibacterial Action of Nanoparticles by Lethal Stretching of Bacterial Cell Membranes. <i>Advanced Materials</i> , 2020, 32, e2005679.	21.0	102
16	Inhibition of hIAPP Amyloid Aggregation and Pancreatic $\beta$ -Cell Toxicity by OH-Terminated PAMAM Dendrimer. <i>Small</i> , 2016, 12, 1615-1626.	10.0	99
17	The Maurer's cleft protein MAHRP1 is essential for trafficking of PfEMP1 to the surface of <i>Plasmodium falciparum</i> -infected erythrocytes. <i>Molecular Microbiology</i> , 2008, 68, 1300-1314.	2.5	94
18	Selective permeabilization of the host cell membrane of <i>Plasmodium falciparum</i> -infected red blood cells with streptolysin O and equinatoxin II. <i>Biochemical Journal</i> , 2007, 403, 167-175.	3.7	93

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19	The Apical Complex Provides a Regulated Gateway for Secretion of Invasion Factors in Toxoplasma. PLoS Pathogens, 2014, 10, e1004074.	4.7	92
20	Membrane-Wrapping Contributions to Malaria Parasite Invasion of the Human Erythrocyte. Biophysical Journal, 2014, 107, 43-54.	0.5	85
21	Ordered Mesoporous Metal-Phenolic Network Particles. Journal of the American Chemical Society, 2020, 142, 335-341.	13.7	85
22	Electron tomography of <i>Plasmodium falciparum</i> merozoites reveals core cellular events that underpin erythrocyte invasion. Cellular Microbiology, 2013, 15, 1457-1472.	2.1	82
23	Electron tomography of the Maurer's cleft organelles of <i>Plasmodium falciparum</i> -infected erythrocytes reveals novel structural features. Molecular Microbiology, 2008, 67, 703-718.	2.5	80
24	Spatial association with PTEX complexes defines regions for effector export into <i>Plasmodium falciparum</i> -infected erythrocytes. Nature Communications, 2013, 4, 1415.	12.8	79
25	Îg-h3 Interacts Directly with Biglycan and Decorin, Promotes Collagen VI Aggregation, and Participates in Ternary Complexing with These Macromolecules. Journal of Biological Chemistry, 2006, 281, 7816-7824.	3.4	78
26	Haemoglobin degradation underpins the sensitivity of early ring stage <i>Plasmodium falciparum</i> to artemisinins. Journal of Cell Science, 2016, 129, 406-16.	2.0	78
27	Whole cell imaging reveals novel modular features of the exomembrane system of the malaria parasite, <i>Plasmodium falciparum</i> . International Journal for Parasitology, 2010, 40, 123-134.	3.1	76
28	Delayed death in the malaria parasite <i>Plasmodium falciparum</i> is caused by disruption of prenylation-dependent intracellular trafficking. PLoS Biology, 2019, 17, e3000376.	5.6	73
29	Functional alteration of red blood cells by a megadalton protein of <i>Plasmodium falciparum</i> . Blood, 2009, 113, 919-928.	1.4	72
30	Spatial and temporal mapping of the PfEMP1 export pathway in <i>Plasmodium falciparum</i> . Cellular Microbiology, 2013, 15, 1401-1418.	2.1	69
31	Disrupting assembly of the inner membrane complex blocks <i>Plasmodium falciparum</i> sexual stage development. PLoS Pathogens, 2017, 13, e1006659.	4.7	69
32	Export of virulence proteins by malaria-infected erythrocytes involves remodeling of host actin cytoskeleton. Blood, 2014, 124, 3459-3468.	1.4	68
33	Covalent and Non-covalent Interactions of Îg-h3 with Collagen VI. Journal of Biological Chemistry, 2003, 278, 24334-24341.	3.4	67
34	Structural Insights into the PorK and PorN Components of the Porphyromonas gingivalis Type IX Secretion System. PLoS Pathogens, 2016, 12, e1005820.	4.7	67
35	Targeted mutagenesis of the ring-exported protein of <i>Plasmodium falciparum</i> disrupts the architecture of Maurer's cleft organelles. Molecular Microbiology, 2008, 69, 938-953.	2.5	65
36	High frequency acoustic cell stimulation promotes exosome generation regulated by a calcium-dependent mechanism. Communications Biology, 2020, 3, 553.	4.4	65

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37	The Twists and Turns of Maurer's Cleft Trafficking in <i>P. falciparum</i> -Infected Erythrocytes. <i>Traffic</i> , 2008, 9, 187-197.	2.7	64
38	MAHRP2, an exported protein of <i>Plasmodium falciparum</i> , is an essential component of Maurer's cleft tethers. <i>Molecular Microbiology</i> , 2010, 77, 1136-1152.	2.5	64
39	A 95 kDa protein of <i>Plasmodium vivax</i> and <i>P. falciparum</i> visualized by three-dimensional tomography in the caveola-vesicle complexes (Schiffner's dots) of infected erythrocytes is a member of the PHIST family. <i>Molecular Microbiology</i> , 2012, 84, 816-831.	2.5	62
40	Cryo transmission X-ray imaging of the malaria parasite, <i>P. falciparum</i> . <i>Journal of Structural Biology</i> , 2011, 173, 161-168.	2.8	58
41	Hematin Self-Association States Involved in the Formation and Reactivity of the Malaria Parasite Pigment, Hemozoin. <i>Biochemistry</i> , 2010, 49, 6804-6811.	2.5	57
42	Oncogenic epithelial cell-derived exosomes containing Rac1 and PAK2 induce angiogenesis in recipient endothelial cells. <i>Oncotarget</i> , 2016, 7, 19709-19722.	1.8	56
43	Tracking Glideosome-Associated Protein 50 Reveals the Development and Organization of the Inner Membrane Complex of <i>Plasmodium falciparum</i> . <i>Eukaryotic Cell</i> , 2011, 10, 556-564.	3.4	51
44	High-resolution X-ray imaging of <i>Plasmodium falciparum</i> -infected red blood cells. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2008, 73A, 949-957.	1.5	49
45	Cellular architecture of <i>Plasmodium falciparum</i> -infected erythrocytes. <i>International Journal for Parasitology</i> , 2010, 40, 1127-1135.	3.1	49
46	Biochemical transformation of calciprotein particles in uraemia. <i>Bone</i> , 2018, 110, 355-367.	2.9	49
47	Shape-shifting gametocytes: how and why does <i>P. falciparum</i> go banana-shaped?. <i>Trends in Parasitology</i> , 2012, 28, 471-478.	3.3	48
48	A lysine-rich membrane-associated PHISTb protein involved in alteration of the cytoadhesive properties of <i>Plasmodium falciparum</i> -infected red blood cells. <i>FASEB Journal</i> , 2014, 28, 3103-3113.	0.5	46
49	Distinct properties of the egress-related osmiophilic bodies in male and female gametocytes of the rodent malaria parasite <i>Plasmodium berghei</i> . <i>Cellular Microbiology</i> , 2015, 17, 355-368.	2.1	46
50	Quantitative analysis of <i>Plasmodium</i> ookinete motion in three dimensions suggests a critical role for cell shape in the biomechanics of malaria parasite gliding motility. <i>Cellular Microbiology</i> , 2014, 16, 734-750.	2.1	45
51	The exported chaperone Hsp70-x supports virulence functions for <i>Plasmodium falciparum</i> blood stage parasites. <i>PLoS ONE</i> , 2017, 12, e0181656.	2.5	45
52	The Golgi ribbon in mammalian cells negatively regulates autophagy by modulating mTOR activity. <i>Journal of Cell Science</i> , 2018, 131, .	2.0	44
53	Minimal requirements for actin filament disassembly revealed by structural analysis of malaria parasite actin-depolymerizing factor 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9869-9874.	7.1	43
54	MAGP-2 Has Multiple Binding Regions on Fibrillins and Has Covalent Periodic Association with Fibrillin-containing Microfibrils. <i>Journal of Biological Chemistry</i> , 2004, 279, 29185-29194.	3.4	42

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55	Atomic force microscopy of bacteria reveals the mechanobiology of pore forming peptide action. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 1091-1098.	2.6	42
56	<i>Thermoflavifilum aggregans</i> gen. nov., sp. nov., a thermophilic and slightly halophilic filamentous bacterium from the phylum Bacteroidetes. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 1264-1270.	1.7	39
57	Analysis of extracellular vesicles generated from monocytes under conditions of lytic cell death. <i>Scientific Reports</i> , 2019, 9, 7538.	3.3	39
58	Genetic ablation of a Maurer's cleft protein prevents assembly of the <i>Plasmodium falciparum</i> virulence complex. <i>Molecular Microbiology</i> , 2011, 81, 982-993.	2.5	37
59	Colorimetric histology using plasmonically active microscope slides. <i>Nature</i> , 2021, 598, 65-71.	27.8	36
60	Synthesis and structural organization of zonular fibers during development and aging. <i>Matrix Biology</i> , 2001, 20, 77-85.	3.6	35
61	Gel-Mediated Electrospray Assembly of Silica Supraparticles for Sustained Drug Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 31019-31031.	8.0	35
62	Towards sustainable microalgal biomass processing: anaerobic induction of autolytic cell-wall self-ingestion in lipid-rich <i>Nannochloropsis</i> slurries. <i>Green Chemistry</i> , 2019, 21, 2967-2982.	9.0	34
63	In Situ Monitoring of Bacteria under Antimicrobial Stress Using <sup>31</sup> P Solid-State NMR. <i>International Journal of Molecular Sciences</i> , 2019, 20, 181.	4.1	34
64	Changes in mitochondrial morphology and organization can enhance energy supply from mitochondrial oxidative phosphorylation in diabetic cardiomyopathy. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C190-C197.	4.6	33
65	A Family of Dual-Activity Glycosyltransferase-Phosphorylases Mediates Mannogen Turnover and Virulence in <i>Leishmania</i> Parasites. <i>Cell Host and Microbe</i> , 2019, 26, 385-399.e9.	11.0	33
66	A recurrent COL6A1 pseudoexon insertion causes muscular dystrophy and is effectively targeted by splice-correction therapies. <i>JCI Insight</i> , 2019, 4, .	5.0	33
67	<i>Thermorudis pharmacophila</i> sp. nov., a novel member of the class Thermomicrobia isolated from geothermal soil, and emended descriptions of <i>Thermomicrobium roseum</i> , <i>Thermomicrobium carboxidum</i> , <i>Thermorudis peleae</i> and <i>Sphaerobacter thermophilus</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 4479-4487.	1.7	32
68	The structure of the PA28 <sup>20S</sup> proteasome complex from <i>Plasmodium falciparum</i> and implications for proteostasis. <i>Nature Microbiology</i> , 2019, 4, 1990-2000.	13.3	31
69	The Exported Protein PbCP1 Localises to Cleft-Like Structures in the Rodent Malaria Parasite <i>Plasmodium berghei</i> . <i>PLoS ONE</i> , 2013, 8, e61482.	2.5	30
70	Clickable Cubosomes for Antibody-Free Drug Targeting and Imaging Applications. <i>Bioconjugate Chemistry</i> , 2018, 29, 149-157.	3.6	30
71	An automated workflow for segmenting single adult cardiac cells from large-volume serial block-face scanning electron microscopy data. <i>Journal of Structural Biology</i> , 2018, 202, 275-285.	2.8	27
72	Biologically active constituents of the secretome of human W8B2+ cardiac stem cells. <i>Scientific Reports</i> , 2018, 8, 1579.	3.3	26

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73	Purification of Fibrillin-Containing Microfibrils and Collagen VI Microfibrils by Density Gradient Centrifugation. <i>Analytical Biochemistry</i> , 1998, 255, 108-112.	2.4	24
74	Interactions between Plasmodium falciparum skeleton-binding protein 1 and the membrane skeleton of malaria-infected red blood cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1619-1628.	2.6	24
75	Sequential Membrane Rupture and Vesiculation during Plasmodium berghei Gametocyte Egress from the Red Blood Cell. <i>Scientific Reports</i> , 2018, 8, 3543.	3.3	24
76	Atomic force microscopy and modeling of natural elastic fibrillin polymers. <i>Biology of the Cell</i> , 1998, 90, 223-228.	2.0	23
77	Aberrant Mitochondria in a Bethlem Myopathy Patient with a Homozygous Amino Acid Substitution That Destabilizes the Collagen VI $\alpha 2(VI)$ Chain. <i>Journal of Biological Chemistry</i> , 2015, 290, 4272-4281.	3.4	23
78	Insights on the impact of mitochondrial organisation on bioenergetics in high-resolution computational models of cardiac cell architecture. <i>PLoS Computational Biology</i> , 2018, 14, e1006640.	3.2	23
79	Characterisation of PFRON6, a Plasmodium falciparum rhoptry neck protein with a novel cysteine-rich domain. <i>International Journal for Parasitology</i> , 2009, 39, 683-692.	3.1	22
80	A Mechanism for Actin Filament Severing by Malaria Parasite Actin Depolymerizing Factor 1 via a Low Affinity Binding Interface. <i>Journal of Biological Chemistry</i> , 2014, 289, 4043-4054.	3.4	22
81	Plasmon-induced enhancement of ptychographic phase microscopy via sub-surface nanoaperture arrays. <i>Nature Photonics</i> , 2021, 15, 222-229.	31.4	22
82	Quantitative phase measurement in coherent diffraction imaging. <i>Optics Express</i> , 2008, 16, 3342.	3.4	21
83	Extracellular Vesicles Secreted by Glioma Stem Cells Are Involved in Radiation Resistance and Glioma Progression. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2770.	4.1	21
84	Ultrastructure of the Asexual Blood Stages of Plasmodium falciparum. <i>Methods in Cell Biology</i> , 2010, 96, 93-116.	1.1	20
85	A repeat sequence domain of the ring-exported protein P of Plasmodium falciparum controls export machinery architecture and virulence protein trafficking. <i>Molecular Microbiology</i> , 2015, 98, 1101-1114.	2.5	20
86	Limisphaera ngatamarikiensis gen. nov., sp. nov., a thermophilic, pink-pigmented coccus isolated from subaqueous mud of a geothermal hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 1114-1121.	1.7	20
87	Multimodal analysis of Plasmodium knowlesi-infected erythrocytes reveals large invaginations, swelling of the host cell, and rheological defects. <i>Cellular Microbiology</i> , 2019, 21, e13005.	2.1	20
88	Design of proteasome inhibitors with oral efficacy in vivo against Plasmodium falciparum and selectivity over the human proteasome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	19
89	Interaction of Giant Unilamellar Vesicles with the Surface Nanostructures on Dragonfly Wings. <i>Langmuir</i> , 2019, 35, 2422-2430.	3.5	18
90	Efficient Transmission Electron Microscopy Characterization of Cell-Nanostructure Interfacial Interactions. <i>Journal of the American Chemical Society</i> , 2020, 142, 15649-15653.	13.7	18

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91	Morphology Change and Improved Efficiency in Organic Photovoltaics via Hexa-peri-hexabenzocoronene Templates. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 8824-8835.	8.0	17
92	Improving the quality of electron tomography image volumes using pre-reconstruction filtering. <i>Journal of Structural Biology</i> , 2012, 180, 132-142.	2.8	16
93	A 3D view of the host cell compartment in <i>P. falciparum</i> -infected erythrocytes. <i>Transfusion Clinique Et Biologique</i> , 2008, 15, 72-81.	0.4	15
94	Infectivity of <i>Plasmodium falciparum</i> in Malaria-Naive Individuals Is Related to Knob Expression and Cytoadherence of the Parasite. <i>Infection and Immunity</i> , 2016, 84, 2689-2696.	2.2	14
95	Immobilized Particle Imaging for Quantification of Nano- and Microparticles. <i>Langmuir</i> , 2016, 32, 3532-3540.	3.5	14
96	Display of malaria transmission-blocking antigens on chimeric duck hepatitis B virus-derived virus-like particles produced in <i>Hansenula polymorpha</i> . <i>PLoS ONE</i> , 2019, 14, e0221394.	2.5	14
97	Identification of Two Independent COL5A1 Variants in Dogs with Ehlers-Danlos Syndrome. <i>Genes</i> , 2019, 10, 731.	2.4	13
98	Tailoring the structure of casein micelles through a multifactorial approach to manipulate rennet coagulation properties. <i>Food Hydrocolloids</i> , 2020, 101, 105414.	10.7	13
99	A nanomechanical study of the effects of colistin on the <i>Klebsiella pneumoniae</i> AJ218 capsule. <i>European Biophysics Journal</i> , 2017, 46, 351-361.	2.2	12
100	Thermally coupled dark-anoxia incubation: A platform technology to induce auto-fermentation and thus cell-wall thinning in both nitrogen-replete and nitrogen-deplete <i>Nannochloropsis</i> slurries. <i>Bioresource Technology</i> , 2019, 290, 121769.	9.6	9
101	Novel Virus-Like Particle Vaccine Encoding the Circumsporozoite Protein of <i>Plasmodium falciparum</i> Is Immunogenic and Induces Functional Antibody Responses in Mice. <i>Frontiers in Immunology</i> , 2021, 12, 641421.	4.8	9
102	Characterising the influence of milk fat towards an application for extrusion-based 3D-printing of casein-whey protein suspensions via the pH-temperature-route. <i>Food Hydrocolloids</i> , 2021, 118, 106642.	10.7	9
103	Relevant Assay to Study the Adhesion of <i>Plasmodium falciparum</i> -Infected Erythrocytes to the Placental Epithelium. <i>PLoS ONE</i> , 2011, 6, e21126.	2.5	8
104	Local regularization of tilt projections reduces artifacts in electron tomography. <i>Journal of Structural Biology</i> , 2014, 186, 28-37.	2.8	8
105	Automated segmentation of cardiomyocyte Z-disks from high-throughput scanning electron microscopy data. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 272.	3.0	7
106	Atypical myelinogenesis and reduced axon caliber in the <i>Scn1a</i> variant model of Dravet syndrome: An electron microscopy pilot study of the developing and mature mouse corpus callosum. <i>Brain Research</i> , 2021, 1751, 147157.	2.2	7
107	Automated framework to reconstruct 3D model of cardiac Z-disk: an image processing approach. , 2018, , .		6
108	X-ray ultramicroscopy using integrated sample cells. <i>Optics Express</i> , 2006, 14, 7889.	3.4	5

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109	A Semi-Automated Workflow for Segmenting Contents of Single Cardiac Cells from Serial-Block-Face Scanning Electron Microscopy Data. <i>Microscopy and Microanalysis</i> , 2017, 23, 240-241.	0.4	4
110	Imaging of dairy emulsions <i>via</i> a novel approach of transmission electron cryogenic microscopy using beam exposure. <i>Soft Matter</i> , 2020, 16, 7888-7892.	2.7	4
111	Creating a Structurally Realistic Finite Element Geometric Model of a Cardiomyocyte to Study the Role of Cellular Architecture in Cardiomyocyte Systems Biology. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	3
112	A computational study of the role of mitochondrial organization on cardiac bioenergetics. , 2017, 2017, 2696-2699.		2
113	A Third hand for array tomography. <i>Microscopy and Microanalysis</i> , 2016, 22, 1152-1153.	0.4	1
114	Structural Characterization of the Type IX Secretion System in <i>Porphyromonas gingivalis</i> . <i>Methods in Molecular Biology</i> , 2021, 2210, 113-121.	0.9	1
115	Whole Cell Imaging of <i>Plasmodium falciparum</i> Blood Stages. <i>Microscopy and Microanalysis</i> , 2009, 15, 866-867.	0.4	0
116	Super-resolution optical imaging of malaria parasites. , 2011, , .		0
117	2SDP-01 High resolution imaging of malaria parasites with light, x-rays and electrons(2SDP ASB-BSJ) Tj ETQq1 1 0.784314 rgBT /Over Seibutsu Butsuri, 2013, 53, S99.	0.1	0
118	Structure and Function of the Proteasome Activator PA28 of the Malaria Parasite <i>Plasmodium falciparum</i> . <i>Microscopy and Microanalysis</i> , 2019, 25, 1324-1325.	0.4	0
119	How Does the Internal Structure of Cardiac Muscle Cells Regulate Cellular Metabolism?. <i>Microscopy and Microanalysis</i> , 2019, 25, 240-241.	0.4	0