

Kurt Anderson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

8,236
citations

52
h-index

90
g-index

104
ext. papers

9,274
ext. citations

8.5
avg, IF

5.59
L-index

#	Paper	IF	Citations
97	Label-Free Multiphoton Microscopy: Much More Than Fancy Images. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	8
96	Antigen retrieval and clearing for whole-organ immunofluorescence by FLASH. <i>Nature Protocols</i> , 2021 , 16, 239-262	18.8	17
95	Single-cell resolved imaging reveals intra-tumor heterogeneity in glycolysis, transitions between metabolic states, and their regulatory mechanisms. <i>Cell Reports</i> , 2021 , 34, 108750	10.6	26
94	Optimizing metastatic-cascade-dependent Rac1 targeting in breast cancer: Guidance using optical window intravital FRET imaging. <i>Cell Reports</i> , 2021 , 36, 109689	10.6	2
93	A RAC-GEF network critical for early intestinal tumourigenesis. <i>Nature Communications</i> , 2021 , 12, 56	17.4	7
92	Tutorial: guidance for quantitative confocal microscopy. <i>Nature Protocols</i> , 2020 , 15, 1585-1611	18.8	82
91	PtdIns(3,4,5)P-dependent Rac exchanger 1 (P-Rex1) promotes mammary tumor initiation and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 28056-28067	11.5	3
90	Shedding new light on RhoA signalling as a drug target using a novel RhoA-FRET biosensor mouse. <i>Small GTPases</i> , 2020 , 11, 240-247	2.7	4
89	Morphogenesis of extra-embryonic tissues directs the remodelling of the mouse embryo at implantation. <i>Nature Communications</i> , 2019 , 10, 3557	17.4	35
88	Challenges for CLEM from a Light Microscopy Perspective 2019 , 23-35		1
87	Removing physiological motion from intravital and clinical functional imaging data. <i>ELife</i> , 2018 , 7,	8.9	28
86	Accepting from the best donor; analysis of long-lifetime donor fluorescent protein pairings to optimise dynamic FLIM-based FRET experiments. <i>PLoS ONE</i> , 2018 , 13, e0183585	3.7	24
85	Fam49/CYRI interacts with Rac1 and locally suppresses protrusions. <i>Nature Cell Biology</i> , 2018 , 20, 1159-1171	13.7	34
84	ROCK signaling promotes collagen remodeling to facilitate invasive pancreatic ductal adenocarcinoma tumor cell growth. <i>EMBO Molecular Medicine</i> , 2017 , 9, 198-218	12	83
83	Transient tissue priming via ROCK inhibition uncouples pancreatic cancer progression, sensitivity to chemotherapy, and metastasis. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	159
82	A RhoA-FRET Biosensor Mouse for Intravital Imaging in Normal Tissue Homeostasis and Disease Contexts. <i>Cell Reports</i> , 2017 , 21, 274-288	10.6	65
81	The ATG16L1 risk allele associated with Crohn's disease results in a Rac1-dependent defect in dendritic cell migration that is corrected by thiopurines. <i>Mucosal Immunology</i> , 2017 , 10, 352-360	9.2	27

80	In-Depth Proteomics Identifies a Role for Autophagy in Controlling Reactive Oxygen Species Mediated Endothelial Permeability. <i>Journal of Proteome Research</i> , 2016 , 15, 2187-97	5.6	18
79	MMP-9 triggered self-assembly of doxorubicin nanofiber depots halts tumor growth. <i>Biomaterials</i> , 2016 , 98, 192-202	15.6	107
78	Intravital FRAP Imaging using an E-cadherin-GFP Mouse Reveals Disease- and Drug-Dependent Dynamic Regulation of Cell-Cell Junctions in Live Tissue. <i>Cell Reports</i> , 2016 , 14, 152-167	10.6	42
77	NEMA NU4-2008 Performance Evaluation of Albira: A Two-Ring Small-Animal PET System Using Continuous LYSO Crystals. <i>Open Medicine Journal</i> , 2016 , 3, 12-26	0.5	8
76	Talin tension sensor reveals novel features of focal adhesion force transmission and mechanosensitivity. <i>Journal of Cell Biology</i> , 2016 , 213, 371-83	7.3	148
75	Polarized cell motility induces hydrogen peroxide to inhibit cofilin via cysteine oxidation. <i>Current Biology</i> , 2015 , 25, 1520-5	6.3	44
74	Cancer cell-autonomous TRAIL-R signaling promotes KRAS-driven cancer progression, invasion, and metastasis. <i>Cancer Cell</i> , 2015 , 27, 561-73	24.3	133
73	There are four dynamically and functionally distinct populations of E-cadherin in cell junctions. <i>Biology Open</i> , 2015 , 4, 1481-9	2.2	17
72	MMP-9 triggered micelle-to-fibre transitions for slow release of doxorubicin. <i>Biomaterials Science</i> , 2015 , 3, 246-9	7.4	72
71	Targeting the LOX/hypoxia axis reverses many of the features that make pancreatic cancer deadly: inhibition of LOX abrogates metastasis and enhances drug efficacy. <i>EMBO Molecular Medicine</i> , 2015 , 7, 1063-76	12	172
70	An open data ecosystem for cell migration research. <i>Trends in Cell Biology</i> , 2015 , 25, 55-8	18.3	21
69	Ligand-Occupied Integrin Internalization Links Nutrient Signaling to Invasive Migration. <i>Cell Reports</i> , 2015 , 10, 398-413	10.6	83
68	Proteomics-based metabolic modeling reveals that fatty acid oxidation (FAO) controls endothelial cell (EC) permeability. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 621-34	7.6	63
67	Astroglial-axonal interactions during early stages of myelination in mixed cultures using in vitro and ex vivo imaging techniques. <i>BMC Neuroscience</i> , 2014 , 15, 59	3.2	5
66	HIRA orchestrates a dynamic chromatin landscape in senescence and is required for suppression of neoplasia. <i>Genes and Development</i> , 2014 , 28, 2712-25	12.6	90
65	Synthesis of migrastatin and its macroketone analogue and in vivo FRAP analysis of the macroketone on E-cadherin dynamics. <i>ChemBioChem</i> , 2014 , 15, 1459-64	3.8	12
64	Strategies to overcome photobleaching in algorithm-based adaptive optics for nonlinear in-vivo imaging. <i>Journal of Biomedical Optics</i> , 2014 , 19, 16021	3.5	6
63	Targeting mTOR dependency in pancreatic cancer. <i>Gut</i> , 2014 , 63, 1481-9	19.2	93

62	Monitoring the dynamics of Src activity in response to anti-invasive dasatinib treatment at a subcellular level using dual intravital imaging. <i>Cell Adhesion and Migration</i> , 2014 , 8, 478-86	3.2	7
61	The Rac-FRET mouse reveals tight spatiotemporal control of Rac activity in primary cells and tissues. <i>Cell Reports</i> , 2014 , 6, 1153-1164	10.6	70
60	Extracellular signal-regulated kinase regulates RhoA activation and tumor cell plasticity by inhibiting guanine exchange factor H1 activity. <i>Molecular and Cellular Biology</i> , 2013 , 33, 4526-37	4.8	23
59	p53 status determines the role of autophagy in pancreatic tumour development. <i>Nature</i> , 2013 , 504, 296-300	5.0	498
58	Imatinib-dependent tyrosine phosphorylation profiling of Bcr-Abl-positive chronic myeloid leukemia cells. <i>Leukemia</i> , 2013 , 27, 743-6	10.7	15
57	ROS production and NF- κ B activation triggered by RAC1 facilitate WNT-driven intestinal stem cell proliferation and colorectal cancer initiation. <i>Cell Stem Cell</i> , 2013 , 12, 761-73	18	282
56	Intravital FLIM-FRET imaging reveals dasatinib-induced spatial control of src in pancreatic cancer. <i>Cancer Research</i> , 2013 , 73, 4674-86	10.1	96
55	Advanced intravital subcellular imaging reveals vital three-dimensional signalling events driving cancer cell behaviour and drug responses in live tissue. <i>FEBS Journal</i> , 2013 , 280, 5177-97	5.7	9
54	Luminal iron levels govern intestinal tumorigenesis after Apc loss in vivo. <i>Cell Reports</i> , 2012 , 2, 270-82	10.6	81
53	Rab25 and CLIC3 collaborate to promote integrin recycling from late endosomes/lysosomes and drive cancer progression. <i>Developmental Cell</i> , 2012 , 22, 131-45	10.2	233
52	Inhibition of autophagy impairs tumor cell invasion in an organotypic model. <i>Cell Cycle</i> , 2012 , 11, 2022-9	4.7	94
51	Time-lapse imaging of the dynamics of CNS glial-axonal interactions in vitro and ex vivo. <i>PLoS ONE</i> , 2012 , 7, e30775	3.7	35
50	α -syntrophin and Par-3 promote an apicobasal Rac activity gradient at cell-cell junctions by differentially regulating Tiam1 activity. <i>Nature Cell Biology</i> , 2012 , 14, 1169-80	23.4	40
49	Paneth cells in intestinal homeostasis and tissue injury. <i>PLoS ONE</i> , 2012 , 7, e38965	3.7	110
48	FLIM-FRET imaging in vivo reveals 3D-environment spatially regulates RhoGTPase activity during cancer cell invasion. <i>Small GTPases</i> , 2011 , 2, 239-244	2.7	25
47	Live cell in vitro and in vivo imaging applications: accelerating drug discovery. <i>Pharmaceutics</i> , 2011 , 3, 141-70	6.4	53
46	Linear approaches to intramolecular FRET resonance energy transfer probe measurements for quantitative modeling. <i>PLoS ONE</i> , 2011 , 6, e27823	3.7	12
45	Organotypic collagen I assay: a malleable platform to assess cell behaviour in a 3-dimensional context. <i>Journal of Visualized Experiments</i> , 2011 , e3089	1.6	47

44	Actomyosin-mediated cellular tension drives increased tissue stiffness and E-cadherin activation to induce epidermal hyperplasia and tumor growth. <i>Cancer Cell</i> , 2011 , 19, 776-91	24.3	391
43	Spatial regulation of RhoA activity during pancreatic cancer cell invasion driven by mutant p53. <i>Cancer Research</i> , 2011 , 71, 747-57	10.1	118
42	Imaging molecular dynamics in vivo--from cell biology to animal models. <i>Journal of Cell Science</i> , 2011 , 124, 2877-90	5.3	62
41	Characterizing system performance in total internal reflection fluorescence microscopy. <i>Methods in Molecular Biology</i> , 2011 , 769, 373-86	1.4	4
40	The Rac activator STEF (Tiam2) regulates cell migration by microtubule-mediated focal adhesion disassembly. <i>EMBO Reports</i> , 2010 , 11, 292-8	6.5	81
39	LIM kinases are required for invasive path generation by tumor and tumor-associated stromal cells. <i>Journal of Cell Biology</i> , 2010 , 191, 169-85	7.3	143
38	Use of photoactivation and photobleaching to monitor the dynamic regulation of E-cadherin at the plasma membrane. <i>Cell Adhesion and Migration</i> , 2010 , 4, 491-501	3.2	19
37	High Resolution Tracking of Cell Membrane Dynamics in Moving Cells: an Electrifying Approach. <i>Mathematical Modelling of Natural Phenomena</i> , 2010 , 5, 34-55	3	26
36	The actin-bundling protein fascin stabilizes actin in invadopodia and potentiates protrusive invasion. <i>Current Biology</i> , 2010 , 20, 339-45	6.3	227
35	A complex between FAK, RACK1, and PDE4D5 controls spreading initiation and cancer cell polarity. <i>Current Biology</i> , 2010 , 20, 1086-92	6.3	162
34	MST kinases monitor actin cytoskeletal integrity and signal via c-Jun N-terminal kinase stress-activated kinase to regulate p21Waf1/Cip1 stability. <i>Molecular and Cellular Biology</i> , 2009 , 29, 6380-90	4.8	65
33	Quantitative real-time imaging of molecular dynamics during cancer cell invasion and metastasis in vivo. <i>Cell Adhesion and Migration</i> , 2009 , 3, 351-4	3.2	12
32	Real-time study of E-cadherin and membrane dynamics in living animals: implications for disease modeling and drug development. <i>Cancer Research</i> , 2009 , 69, 2714-9	10.1	63
31	Neuropilin-1/GIPC1 signaling regulates alpha5beta1 integrin traffic and function in endothelial cells. <i>PLoS Biology</i> , 2009 , 7, e25	9.7	215
30	Elevations of intracellular calcium reflect normal voltage-dependent behavior, and not constitutive activity, of voltage-dependent calcium channels in gastrointestinal and vascular smooth muscle. <i>Journal of General Physiology</i> , 2009 , 133, 439-57	3.4	13
29	The three-dimensional dynamics of actin waves, a model of cytoskeletal self-organization. <i>Biophysical Journal</i> , 2009 , 96, 2888-900	2.9	151
28	Fluorescence lifetime imaging: association of cortical actin with a PIP3-rich membrane compartment. <i>European Journal of Cell Biology</i> , 2008 , 87, 735-41	6.1	10
27	The multi-FERM-domain-containing protein FrmA is required for turnover of paxillin-adhesion sites during cell migration of Dictyostelium. <i>Journal of Cell Science</i> , 2008 , 121, 1159-64	5.3	18

26	Recent advances using green and red fluorescent protein variants. <i>Applied Microbiology and Biotechnology</i> , 2007 , 77, 1-12	5.7	94
25	Rab25 associates with alpha5beta1 integrin to promote invasive migration in 3D microenvironments. <i>Developmental Cell</i> , 2007 , 13, 496-510	10.2	330
24	Design and Function of a Light-Microscopy Facility. <i>Principles and Practice</i> , 2007 , 93-113		7
23	A new configuration of the Zeiss LSM 510 for simultaneous optical separation of green and red fluorescent protein pairs. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2006 , 69, 920-9	4.6	19
22	Mechanically induced actin-mediated rocketing of phagosomes. <i>Molecular Biology of the Cell</i> , 2006 , 17, 4866-75	3.5	30
21	Hexagonal packing of Drosophila wing epithelial cells by the planar cell polarity pathway. <i>Developmental Cell</i> , 2005 , 9, 805-17	10.2	329
20	Actin microridges characterized by laser scanning confocal and atomic force microscopy. <i>FEBS Letters</i> , 2005 , 579, 2001-8	3.8	32
19	Subsecond reorganization of the actin network in cell motility and chemotaxis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 7601-6	11.5	96
18	Polyene-lipids: a new tool to image lipids. <i>Nature Methods</i> , 2005 , 2, 39-45	21.6	154
17	N-WASP deficiency impairs EGF internalization and actin assembly at clathrin-coated pits. <i>Journal of Cell Science</i> , 2005 , 118, 3103-15	5.3	143
16	The leading edge is a lipid diffusion barrier. <i>Journal of Cell Science</i> , 2005 , 118, 4375-80	5.3	40
15	Dynamic actin patterns and Arp2/3 assembly at the substrate-attached surface of motile cells. <i>Current Biology</i> , 2004 , 14, 1-10	6.3	227
14	Mobile actin clusters and traveling waves in cells recovering from actin depolymerization. <i>Biophysical Journal</i> , 2004 , 87, 3493-503	2.9	151
13	Seeing More by Seeing Less: TIRFM Imaging of Cytoskeleton and Membrane Dynamics. <i>Microscopy and Microanalysis</i> , 2004 , 10, 1232-1233	0.5	
12	Nanometer targeting of microtubules to focal adhesions. <i>Journal of Cell Biology</i> , 2003 , 161, 853-9	7.3	141
11	Observing structure, function and assembly of single proteins by AFM. <i>Progress in Biophysics and Molecular Biology</i> , 2002 , 79, 1-43	4.7	138
10	Biomolecular imaging using atomic force microscopy. <i>Trends in Biotechnology</i> , 2002 , 20, S45-S49	15.1	52
9	Tensile stress stimulates microtubule outgrowth in living cells. <i>Journal of Cell Science</i> , 2002 , 115, 2283-2291	23.1	100

8	Tensile stress stimulates microtubule outgrowth in living cells. <i>Journal of Cell Science</i> , 2002 , 115, 2283-91	5.3	84
7	Contact dynamics during keratocyte motility. <i>Current Biology</i> , 2000 , 10, 253-60	6.3	73
6	Visualising the actin cytoskeleton. <i>Microscopy Research and Technique</i> , 1999 , 47, 3-17	2.8	113
5	Assembling an actin cytoskeleton for cell attachment and movement. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1998 , 1404, 271-81	4.9	196
4	Actin and the coordination of protrusion, attachment and retraction in cell crawling. <i>Bioscience Reports</i> , 1996 , 16, 351-68	4.1	63
3	Coordination of protrusion and translocation of the keratocyte involves rolling of the cell body. <i>Journal of Cell Biology</i> , 1996 , 134, 1209-18	7.3	101
2	Actin filament organization in the fish keratocyte lamellipodium. <i>Journal of Cell Biology</i> , 1995 , 129, 1275-86	7.8	206
1	Calponin reduces shortening velocity in skinned taenia coli smooth muscle fibres. <i>FEBS Letters</i> , 1995 , 365, 167-71	3.8	49