

Marcel B Mettlen

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

5,195
citations

186265

28
h-index

254184

43
g-index

50
all docs

50
docs citations

50
times ranked

7705
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust single-particle tracking in live-cell time-lapse sequences. <i>Nature Methods</i> , 2008, 5, 695-702.	19.0	1,658
2	Regulation of Clathrin-Mediated Endocytosis. <i>Annual Review of Biochemistry</i> , 2018, 87, 871-896.	11.1	381
3	Cargo and Dynamin Regulate Clathrin-Coated Pit Maturation. <i>PLoS Biology</i> , 2009, 7, e1000057.	5.6	357
4	Advances in Analysis of Low Signal-to-Noise Images Link Dynamin and AP2 to the Functions of an Endocytic Checkpoint. <i>Developmental Cell</i> , 2013, 26, 279-291.	7.0	330
5	An siRNA screen for NFAT activation identifies septins as coordinators of store-operated Ca ²⁺ entry. <i>Nature</i> , 2013, 499, 238-242.	27.8	207
6	Dissecting dynamin's role in clathrin-mediated endocytosis. <i>Biochemical Society Transactions</i> , 2009, 37, 1022-1026.	3.4	169
7	Origin, originality, functions, subversions and molecular signalling of macropinocytosis. <i>International Journal of Medical Microbiology</i> , 2001, 291, 487-494.	3.6	144
8	Cargo- and adaptor-specific mechanisms regulate clathrin-mediated endocytosis. <i>Journal of Cell Biology</i> , 2010, 188, 919-933.	5.2	137
9	Structural Tuning of the Fluorescent Protein iLOV for Improved Photostability. <i>Journal of Biological Chemistry</i> , 2012, 287, 22295-22304.	3.4	130
10	Differential glucose requirement in skin homeostasis and injury identifies a therapeutic target for psoriasis. <i>Nature Medicine</i> , 2018, 24, 617-627.	30.7	117
11	Crosstalk between Akt/ GSK-3 β signaling and dynamin-1 regulates clathrin-mediated endocytosis. <i>EMBO Journal</i> , 2015, 34, 2132-2146.	7.8	116
12	Endocytic Accessory Proteins Are Functionally Distinguished by Their Differential Effects on the Maturation of Clathrin-coated Pits. <i>Molecular Biology of the Cell</i> , 2009, 20, 3251-3260.	2.1	115
13	A Protein Kinase C Phosphorylation Motif in GLUT1 Affects Glucose Transport and is Mutated in GLUT1 Deficiency Syndrome. <i>Molecular Cell</i> , 2015, 58, 845-853.	9.7	108
14	Fucosylation and protein glycosylation create functional receptors for cholera toxin. <i>ELife</i> , 2015, 4, e09545.	6.0	81
15	Src Triggers Circular Ruffling and Macropinocytosis at the Apical Surface of Polarized MDCK Cells. <i>Traffic</i> , 2006, 7, 589-603.	2.7	80
16	Control of actin polymerization via the coincidence of phosphoinositides and high membrane curvature. <i>Journal of Cell Biology</i> , 2017, 216, 3745-3765.	5.2	79
17	Agents Blocking the Nuclear Factor- κ B Pathway Are Effective Inhibitors of Endometriosis in an in vivo Experimental Model. <i>Gynecologic and Obstetric Investigation</i> , 2008, 65, 174-186.	1.6	77
18	Azithromycin, a Lysosomotropic Antibiotic, Has Distinct Effects on Fluid-Phase and Receptor-Mediated Endocytosis, but Does Not Impair Phagocytosis in J774 Macrophages. <i>Experimental Cell Research</i> , 2002, 281, 86-100.	2.6	76

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19	Crosstalk between CLCb/Dyn1-Mediated Adaptive Clathrin-Mediated Endocytosis and Epidermal Growth Factor Receptor Signaling Increases Metastasis. <i>Developmental Cell</i> , 2017, 40, 278-288.e5.	7.0	72
20	Dynamain regulates the dynamics and mechanical strength of the actin cytoskeleton as a multifilament actin-bundling protein. <i>Nature Cell Biology</i> , 2020, 22, 674-688.	10.3	70
21	Ikarugamycin: A Natural Product Inhibitor of Clathrin-Mediated Endocytosis. <i>Traffic</i> , 2016, 17, 1139-1149.	2.7	65
22	Measuring the Hierarchy of Molecular Events During Clathrin-Mediated Endocytosis. <i>Traffic</i> , 2011, 12, 815-825.	2.7	63
23	Context-Dependent Proangiogenic Function of Bone Morphogenetic Protein Signaling Is Mediated by Disabled Homolog 2. <i>Developmental Cell</i> , 2012, 23, 441-448.	7.0	59
24	Hotspots Organize Clathrin-Mediated Endocytosis by Efficient Recruitment and Retention of Nucleating Resources. <i>Traffic</i> , 2011, 12, 1868-1878.	2.7	53
25	Diagonally Scanned Light-Sheet Microscopy for Fast Volumetric Imaging of Adherent Cells. <i>Biophysical Journal</i> , 2016, 110, 1456-1465.	0.5	50
26	Regulation of matrix metalloproteinase (MMP) activity by the low-density lipoprotein receptor-related protein (LRP). A new function for an "old friend". <i>Biochimie</i> , 2005, 87, 369-376.	2.6	49
27	Imaging and Modeling the Dynamics of Clathrin-Mediated Endocytosis. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014, 6, a017038-a017038.	5.5	44
28	Differential subcellular membrane recruitment of Src may specify its downstream signalling. <i>Experimental Cell Research</i> , 2008, 314, 1465-1479.	2.6	35
29	Functional characterization of 67 endocytic accessory proteins using multiparametric quantitative analysis of CCP dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31591-31602.	7.1	34
30	Cell-Based Screen Identifies Human Interferon-Stimulated Regulators of <i>Listeria monocytogenes</i> Infection. <i>PLoS Pathogens</i> , 2016, 12, e1006102.	4.7	26
31	Cell type and receptor identity regulate cholera toxin subunit B (CTB) internalization. <i>Interface Focus</i> , 2019, 9, 20180076.	3.0	25
32	DASC, a sensitive classifier for measuring discrete early stages in clathrin-mediated endocytosis. <i>ELife</i> , 2020, 9, .	6.0	23
33	Quantification of endometriotic lesions in a murine model by fluorimetric and morphometric analyses. <i>Human Reproduction</i> , 2006, 21, 810-817.	0.9	21
34	Lipid switches and traffic control. <i>Nature</i> , 2013, 499, 161-162.	27.8	21
35	Early and nonredundant functions of dynamain isoforms in clathrin-mediated endocytosis. <i>Molecular Biology of the Cell</i> , 2020, 31, 2035-2047.	2.1	21
36	v-Src accelerates spontaneous motility via phosphoinositide 3-kinase, phospholipase C and phospholipase D, but abrogates chemotaxis in Rat-1 and MDCK cells. <i>Journal of Cell Science</i> , 2004, 117, 4849-4861.	2.0	20

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37	Immune Checkpoint Inhibition is Safe and Effective for Liver Cancer Prevention in a Mouse Model of Hepatocellular Carcinoma. <i>Cancer Prevention Research</i> , 2020, 13, 911-922.	1.5	20
38	Mutant p53 amplifies a dynamin-1/APPL1 endosome feedback loop that regulates recycling and migration. <i>Journal of Cell Biology</i> , 2019, 218, 1928-1942.	5.2	17
39	Wbox2: A clathrin terminal domain-derived peptide inhibitor of clathrin-mediated endocytosis. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	13
40	An internally GFP-tagged β -adaptin is a fully functional and improved fiduciary marker for clathrin-coated pit dynamics. <i>Traffic</i> , 2020, 21, 603-616.	2.7	11
41	Simultaneous stabilization of actin cytoskeleton in multiple nephron-specific cells protects the kidney from diverse injury. <i>Nature Communications</i> , 2022, 13, 2422.	12.8	9
42	Azithromycin, a Lysosomotropic Antibiotic, Has Distinct Effects on Fluid-Phase and Receptor-Mediated Endocytosis, but Does Not Impair Phagocytosis in J774 Macrophages. <i>Experimental Cell Research</i> , 2002, 281, 86-86.	2.6	6
43	Constitutive diffuse activation of phosphoinositide 3-kinase at the plasma membrane by v-Src suppresses the chemotactic response to PDGF by abrogating the polarity of PDGF receptor signalling. <i>Experimental Cell Research</i> , 2007, 313, 1090-1105.	2.6	5
44	Novel Modulators of STIM-ORAI Calcium Entry Pathway. <i>Biophysical Journal</i> , 2012, 102, 314a.	0.5	0
45	Regulation of early stages in clathrin mediated endocytosis revealed by quantitative analyses in living cells. <i>FASEB Journal</i> , 2013, 27, 75.2.	0.5	0
46	Abstract 3675: HER2 missense mutations in breast cancer cells do not alter HER2 internalization or sensitivity to T-DM1. , 2020, , .		0