

Matthew John Tyska

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,737
citations

279798

23
h-index

197818

49
g-index

58
all docs

58
docs citations

58
times ranked

3847
citing authors

#	ARTICLE	IF	CITATIONS
1	The Collagen Receptor Discoidin Domain Receptor 1b Enhances Integrin α 21-Mediated Cell Migration by Interacting With Talin and Promoting Rac1 Activation. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, 836797.	3.7	8
2	Mitotic Spindle Positioning (MISP) is an actin bundler that selectively stabilizes the rootlets of epithelial microvilli. <i>Cell Reports</i> , 2022, 39, 110692.	6.4	14
3	Direct visualization of epithelial microvilli biogenesis. <i>Current Biology</i> , 2021, 31, 2561-2575.e6.	3.9	28
4	ASIST: Annotation-free synthetic instance segmentation and tracking by adversarial simulations. <i>Computers in Biology and Medicine</i> , 2021, 134, 104501.	7.0	11
5	Faster Mean-shift: GPU-accelerated clustering for cosine embedding-based cell segmentation and tracking. <i>Medical Image Analysis</i> , 2021, 71, 102048.	11.6	150
6	A protocol for imaging microvilli biogenesis on the surface of cultured porcine kidney epithelial cell monolayers. <i>STAR Protocols</i> , 2021, 2, 100998.	1.2	3
7	Heterophilic and homophilic cadherin interactions in intestinal intermicrovillar links are species dependent. <i>PLoS Biology</i> , 2021, 19, e3001463.	5.6	8
8	The Huntingtin-interacting protein SETD2/HYPB is an actin lysine methyltransferase. <i>Science Advances</i> , 2020, 6, .	10.3	29
9	A heterologous in-cell assay for investigating intermicrovillar adhesion complex interactions reveals a novel protrusion length-matching mechanism. <i>Journal of Biological Chemistry</i> , 2020, 295, 16191-16206.	3.4	7
10	Nonmuscle myosin-2 contractility-dependent actin turnover limits the length of epithelial microvilli. <i>Molecular Biology of the Cell</i> , 2020, 31, 2803-2815.	2.1	28
11	The small EF-hand protein CALML4 functions as a critical myosin light chain within the intermicrovillar adhesion complex. <i>Journal of Biological Chemistry</i> , 2020, 295, 9281-9296.	3.4	22
12	Actin Dynamics Drive Microvillar Motility and Clustering during Brush Border Assembly. <i>Developmental Cell</i> , 2019, 50, 545-556.e4.	7.0	51
13	PACSIN2-dependent apical endocytosis regulates the morphology of epithelial microvilli. <i>Molecular Biology of the Cell</i> , 2019, 30, 2515-2526.	2.1	14
14	Profilin-Mediated Actin Allocation Regulates the Growth of Epithelial Microvilli. <i>Current Biology</i> , 2019, 29, 3457-3465.e3.	3.9	19
15	Loss of myosin Vb promotes apical bulk endocytosis in neonatal enterocytes. <i>Journal of Cell Biology</i> , 2019, 218, 3647-3662.	5.2	13
16	Actin assembly and non-muscle myosin activity drive dendrite retraction in an UNC-6/Netrin dependent self-avoidance response. <i>PLoS Genetics</i> , 2019, 15, e1008228.	3.5	23
17	Brush border protocadherin CDHR2 promotes the elongation and maximized packing of microvilli in vivo. <i>Molecular Biology of the Cell</i> , 2019, 30, 108-118.	2.1	29
18	Loss of MYO5B Leads to Reductions in Na ⁺ Absorption With Maintenance of CFTR-Dependent Cl ⁻ Secretion in Enterocytes. <i>Gastroenterology</i> , 2018, 155, 1883-1897.e10.	1.3	45

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19	IRTKS (BAIAP2L1) Elongates Epithelial Microvilli Using EPS8-Dependent and Independent Mechanisms. <i>Current Biology</i> , 2018, 28, 2876-2888.e4.	3.9	58
20	Muscle-specific stress fibers give rise to sarcomeres in cardiomyocytes. <i>ELife</i> , 2018, 7, .	6.0	67
21	Microvillus Inclusion Formation in Myosin Vb Knockout Mice Occurs Through Apical Bulk Endocytosis and Requires Syndapin 2. <i>FASEB Journal</i> , 2018, 32, 612.4.	0.5	0
22	Structure of Myo7b/USH1C complex suggests a general PDZ domain binding mode by MyTH4-FERM myosins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3776-E3785.	7.1	36
23	High-Resolution Image Stitching as a Tool to Assess Tissue-Level Protein Distribution and Localization. <i>Methods in Molecular Biology</i> , 2017, 1606, 281-296.	0.9	2
24	Disruption of Rab8a and Rab11a causes formation of basolateral microvilli in neonatal enteropathy. <i>Journal of Cell Science</i> , 2017, 130, 2491-2505.	2.0	21
25	Shear stress induces noncanonical autophagy in intestinal epithelial monolayers. <i>Molecular Biology of the Cell</i> , 2017, 28, 3043-3056.	2.1	35
26	MyTH4-FERM myosins in the assembly and maintenance of actin-based protrusions. <i>Current Opinion in Cell Biology</i> , 2017, 44, 68-78.	5.4	33
27	Impact of the Motor and Tail Domains of Class III Myosins on Regulating the Formation and Elongation of Actin Protrusions. <i>Journal of Biological Chemistry</i> , 2016, 291, 22781-22792.	3.4	14
28	Focal adhesions control cleavage furrow shape and spindle tilt during mitosis. <i>Scientific Reports</i> , 2016, 6, 29846.	3.3	31
29	Brush Border Destruction by Enterohemorrhagic Escherichia coli (EHEC): New Insights From Organoid Culture. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2016, 2, 7-8.	4.5	4
30	Impact of cordon-bleu expression on actin cytoskeleton architecture and dynamics. <i>Cytoskeleton</i> , 2016, 73, 670-679.	2.0	12
31	Impact of cordon-bleu expression on actin cytoskeleton architecture and dynamics. <i>Cytoskeleton</i> , 2016, 73, Spc1-Spc1.	2.0	1
32	Myosin-7b Promotes Distal Tip Localization of the Intermicrovillar Adhesion Complex. <i>Current Biology</i> , 2016, 26, 2717-2728.	3.9	51
33	Cortactin promotes exosome secretion by controlling branched actin dynamics. <i>Journal of Cell Biology</i> , 2016, 214, 197-213.	5.2	226
34	ANKS4B Is Essential for Intermicrovillar Adhesion Complex Formation. <i>Developmental Cell</i> , 2016, 36, 190-200.	7.0	55
35	Cordon bleu promotes the assembly of brush border microvilli. <i>Molecular Biology of the Cell</i> , 2015, 26, 3803-3815.	2.1	38
36	Shaping the intestinal brush border. <i>Journal of Cell Biology</i> , 2014, 207, 441-451.	5.2	210

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37	Dynamics of brush border remodeling induced by enteropathogenic <i>E. coli</i> . <i>Gut Microbes</i> , 2014, 5, 504-516.	9.8	11
38	Motor and Tail Homology 1 (TH1) Domains Antagonistically Control Myosin-1 Dynamics. <i>Biophysical Journal</i> , 2014, 106, 649-658.	0.5	11
39	Detection of Rare Antigen-Presenting Cells through T Cell-Intrinsic Meandering Motility, Mediated by Myo1g. <i>Cell</i> , 2014, 158, 492-505.	28.9	120
40	Apical Vesicle Trafficking Takes Center Stage in Neonatal Enteropathies. <i>Gastroenterology</i> , 2014, 147, 15-17.	1.3	6
41	Intestinal Brush Border Assembly Driven by Protocadherin-Based Intermicrovillar Adhesion. <i>Cell</i> , 2014, 157, 433-446.	28.9	159
42	Exosome Secretion Is Enhanced by Invadopodia and Drives Invasive Behavior. <i>Cell Reports</i> , 2013, 5, 1159-1168.	6.4	428
43	Ready to fire into the lumen. <i>Gut Microbes</i> , 2012, 3, 460-462.	9.8	14
44	Myosin-1A Targets to Microvilli Using Multiple Membrane Binding Motifs in the Tail Homology 1 (TH1) Domain. <i>Journal of Biological Chemistry</i> , 2012, 287, 13104-13115.	3.4	37
45	Proteomic analysis of the enterocyte brush border. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 300, C914-C926.	3.4	84
46	Myosin motor function: the ins and outs of actin-based membrane protrusions. <i>Cellular and Molecular Life Sciences</i> , 2010, 67, 1239-1254.	5.4	91
47	Myosin-1a. <i>Communicative and Integrative Biology</i> , 2010, 3, 64-66.	1.4	9
48	Myosin-1a Is Critical for Normal Brush Border Structure and Composition. <i>Molecular Biology of the Cell</i> , 2005, 16, 2443-2457.	2.1	168
49	Myosin-V motility: these levers were made for walking. <i>Trends in Cell Biology</i> , 2003, 13, 447-451.	7.9	25
50	The myosin power stroke. <i>Cytoskeleton</i> , 2002, 51, 1-15.	4.4	172