

Michael Hortsch

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4191653/publications.pdf>

Version: 2024-02-01

77
papers

3,540
citations

147801

31
h-index

138484

58
g-index

80
all docs

80
docs citations

80
times ranked

2585
citing authors

#	ARTICLE	IF	CITATIONS
1	Drosophila neuroglian: A member of the immunoglobulin superfamily with extensive homology to the vertebrate neural adhesion molecule L1. <i>Cell</i> , 1989, 59, 447-460.	28.9	391
2	Sodium Channel β 2 Subunits Mediate Homophilic Cell Adhesion and Recruit Ankyrin to Points of Cell-Cell Contact. <i>Journal of Biological Chemistry</i> , 2000, 275, 11383-11388.	3.4	247
3	The L1 Family of Neural Cell Adhesion Molecules: Old Proteins Performing New Tricks. <i>Neuron</i> , 1996, 17, 587-593.	8.1	237
4	Structural and Functional Evolution of the L1 Family: Are Four Adhesion Molecules Better Than One?. <i>Molecular and Cellular Neurosciences</i> , 2000, 15, 1-10.	2.2	195
5	Differential splicing generates a nervous system-specific form of drosophila neuroglian. <i>Neuron</i> , 1990, 4, 697-709.	8.1	166
6	Structural Requirements for Interaction of Sodium Channel β 2 Subunits with Ankyrin. <i>Journal of Biological Chemistry</i> , 2002, 277, 26681-26688.	3.4	139
7	Drosophila contactin, a homolog of vertebrate contactin, is required for septate junction organization and paracellular barrier function. <i>Development (Cambridge)</i> , 2004, 131, 4931-4942.	2.5	134
8	Cell and Substrate Adhesion Molecules in Drosophila. <i>Annual Review of Cell Biology</i> , 1991, 7, 505-557.	26.1	126
9	A Conserved Role for Drosophila Neuroglian and Human L1-CAM in Central-Synapse Formation. <i>Current Biology</i> , 2006, 16, 12-23.	3.9	114
10	Increased activity of <i>Diaphanous homolog 3</i> (<i>DIAPH3</i>)/ <i>diaphanous</i> causes hearing defects in humans with auditory neuropathy and in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13396-13401.	7.1	103
11	L1-Cadherin-mediated Cell-Cell Adhesion Does Not Require Cytoplasmic Interactions. <i>Journal of Cell Biology</i> , 1997, 136, 1109-1121.	5.2	88
12	Cis-activation of L1-mediated Ankyrin Recruitment by TAG-1 Homophilic Cell Adhesion. <i>Journal of Biological Chemistry</i> , 1998, 273, 33354-33359.	3.4	74
13	Activation of EGF Receptor Kinase by L1-mediated Homophilic Cell Interactions. <i>Molecular Biology of the Cell</i> , 2004, 15, 2003-2012.	2.1	73
14	Structural Requirements for Outside-In and Inside-Out Signaling by Drosophila Neuroglian, a Member of the L1 Family of Cell Adhesion Molecules. <i>Journal of Cell Biology</i> , 1998, 142, 251-261.	5.2	68
15	Transfer of Secretory Proteins through the Membrane of the Endoplasmic Reticulum. <i>International Review of Cytology</i> , 1986, 102, 215-242.	6.2	63
16	The Cytoplasmic Domain of the Drosophila Cell Adhesion Molecule Neuroglian Is Not Essential for Its Homophilic Adhesive Properties in S2 Cells. <i>Journal of Biological Chemistry</i> , 1995, 270, 18809-18817.	3.4	62
17	Correlating students' educational background, study habits, and resource usage with learning success in medical histology. <i>Anatomical Sciences Education</i> , 2015, 8, 1-11.	3.7	60
18	The interrupted learner: How distractions during live and video lectures influence learning outcomes. <i>Anatomical Sciences Education</i> , 2018, 11, 366-376.	3.7	59

#	ARTICLE	IF	CITATIONS
19	Immunochemical analysis of rough and smooth microsomes from rat liver. Segregation of docking protein in rough membranes. <i>FEBS Journal</i> , 1985, 150, 559-564.	0.2	58
20	Neuroglian activates Echinoid to antagonize the <i>Drosophila</i> EGF receptor signaling pathway. <i>Development (Cambridge)</i> , 2003, 130, 2051-2059.	2.5	57
21	Annulin, a protein expressed at limb segment boundaries in the grasshopper embryo, is homologous to protein cross-linking transglutaminases. <i>Developmental Biology</i> , 1992, 154, 143-159.	2.0	55
22	The interaction between L1-type proteins and ankyrins - a master switch for L1-type CAM function. <i>Cellular and Molecular Biology Letters</i> , 2009, 14, 57-69.	7.0	49
23	A Conserved Role for L1 as a Transmembrane Link Between Neuronal Adhesion and Membrane Cytoskeleton Assembly. <i>Cell Adhesion and Communication</i> , 1998, 5, 61-73.	1.7	47
24	Septate and paranodal junctions: kissing cousins. <i>Trends in Cell Biology</i> , 2003, 13, 557-561.	7.9	45
25	The L1-Type Cell Adhesion Molecule Neuroglian Influences the Stability of Neural Ankyrin in the <i>Drosophila</i> Embryo But Not Its Axonal Localization. <i>Journal of Neuroscience</i> , 2000, 20, 4515-4523.	3.6	44
26	Genetic analysis of an overlapping functional requirement for L1- and NCAM-type proteins during sensory axon guidance in <i>Drosophila</i> . <i>Molecular and Cellular Neurosciences</i> , 2005, 28, 141-152.	2.2	41
27	Climbing Bloom's taxonomy pyramid: Lessons from a graduate histology course. <i>Anatomical Sciences Education</i> , 2017, 10, 456-464.	3.7	39
28	The virtual microscopy database "sharing digital microscope images for research and education. <i>Anatomical Sciences Education</i> , 2018, 11, 510-515.	3.7	38
29	The L1 Family of Cell Adhesion Molecules: A Sickening Number of Mutations and Protein Functions. <i>Advances in Neurobiology</i> , 2014, 8, 195-229.	1.8	38
30	Preference of Interactive Electronic Versus Traditional Learning Resources by University of Michigan Medical Students during the First Year Histology Component. <i>Medical Science Educator</i> , 2013, 23, 607-619.	1.5	36
31	The <i>Drosophila</i> L1CAM homolog Neuroglian signals through distinct pathways to control different aspects of mushroom body axon development. <i>Development (Cambridge)</i> , 2011, 138, 1595-1605.	2.5	35
32	The Axonal Localization of Large <i>Drosophila</i> Ankyrin2 Protein Isoforms Is Essential for Neuronal Functionality. <i>Molecular and Cellular Neurosciences</i> , 2002, 20, 43-55.	2.2	33
33	Regulation of the membrane permeability of spinach chloroplasts by binding of adenine nucleotides. <i>FEBS Letters</i> , 1981, 136, 25-31.	2.8	32
34	Complete cDNA sequence coding for human docking protein. <i>Nucleic Acids Research</i> , 1988, 16, 361-362.	14.5	31
35	Learning histology " dental and medical students' study strategies. <i>European Journal of Dental Education</i> , 2015, 19, 65-73.	2.0	30
36	When students struggle with gross anatomy and histology: A strategy for monitoring, reviewing, and promoting student academic success in an integrated preclinical medical curriculum. <i>Anatomical Sciences Education</i> , 2015, 8, 478-483.	3.7	28

#	ARTICLE	IF	CITATIONS
37	Neuroglian stabilizes epithelial structure during <i>Drosophila</i> oogenesis. <i>Developmental Dynamics</i> , 2004, 230, 800-808.	1.8	26
38	Ethanol Does Not Inhibit the Adhesive Activity of <i>Drosophila</i> Neuroglian or Human L1 in <i>Drosophila</i> S2 Tissue Culture Cells. <i>Journal of Biological Chemistry</i> , 1997, 272, 12244-12247.	3.4	23
39	Pathogenic human L1-CAM mutations reduce the adhesion-dependent activation of EGFR. <i>Human Molecular Genetics</i> , 2009, 18, 3822-3831.	2.9	22
40	Sticky molecules in not-so-sticky cells. <i>Trends in Biochemical Sciences</i> , 1991, 16, 283-287.	7.5	20
41	Duplications in nomenclature. <i>Nature</i> , 1997, 389, 539-539.	27.8	19
42	How students choose E-learning resources: The importance of ease, familiarity, and convenience. <i>FASEB BioAdvances</i> , 2020, 2, 286-295.	2.4	19
43	The human docking protein does not associate with the membrane of the rough endoplasmic reticulum via a signal or insertion sequence-mediated mechanism. <i>Biochemical and Biophysical Research Communications</i> , 1988, 150, 111-117.	2.1	18
44	Virtual Biology: Teaching Histology in the Age of Facebook. <i>FASEB Journal</i> , 2013, 27, 411-413.	0.5	18
45	Fasciclin II: The NCAM Ortholog in <i>Drosophila melanogaster</i> . <i>Advances in Experimental Medicine and Biology</i> , 2010, 663, 387-401.	1.6	16
46	Cross-Species Analyses Identify the BNIP-2 and Cdc42GAP Homology (BCH) Domain as a Distinct Functional Subclass of the CRAL_TRIO/Sec14 Superfamily. <i>PLoS ONE</i> , 2012, 7, e33863.	2.5	16
47	Phosphorylation of L1-type cell-adhesion molecules " ankyrins away!. <i>Trends in Biochemical Sciences</i> , 2006, 31, 544-546.	7.5	15
48	Overcoming Barriers in a Traditional Medical Education System by the Stepwise, Evidence-Based Introduction of a Modern Learning Technology. <i>Medical Science Educator</i> , 2019, 29, 803-817.	1.5	15
49	The analysis of genomic structures in the L1 family of cell adhesion molecules provides no evidence for exon shuffling events after the separation of arthropod and chordate lineages. <i>Gene</i> , 1998, 215, 47-55.	2.2	14
50	Expression of Caytaxin Protein in Cayman Ataxia Mouse Models Correlates with Phenotype Severity. <i>PLoS ONE</i> , 2012, 7, e50570.	2.5	14
51	Differential Effects of Human L1CAM Mutations on Complementing Guidance and Synaptic Defects in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2013, 8, e76974.	2.5	12
52	"How we learn may not always be good for us" Do new electronic teaching approaches always result in better learning outcomes?. <i>Medical Teacher</i> , 2015, 37, 507-509.	1.8	12
53	Histology education in an integrated, time-restricted medical curriculum: Academic outcomes and students' study adaptations. <i>Anatomical Sciences Education</i> , 2022, 15, 671-684.	3.7	12
54	How to Make Educational Lemonade Out of a Didactic Lemon: The Benefits of Listening to Your Students. <i>Anatomical Sciences Education</i> , 2019, 12, 572-576.	3.7	11

#	ARTICLE	IF	CITATIONS
55	From Microscopes to Virtual Reality â€” How Our Teaching of Histology is Changing. <i>Journal of Cytology & Histology</i> , 2013, 04, .	0.1	11
56	Chapter 17 Preparation and Analysis of Membranes and Membrane Proteins from <i>Drosophila</i> . <i>Methods in Cell Biology</i> , 1994, 44, 289-301.	1.1	10
57	A Phylogenetic Analysis of the L1 Family of Neural Cell Adhesion Molecules. <i>Neurochemical Research</i> , 2013, 38, 1196-1207.	3.3	10
58	Neural cell adhesion molecules - brain glue and much more. <i>Frontiers in Bioscience - Landmark</i> , 2003, 8, d357-359.	3.0	9
59	Taking a SecondLookâ„¢ at a Time-Efficient Self-Review Resource. <i>Medical Science Educator</i> , 2016, 26, 3-4.	1.5	9
60	Brave new Eâ€w world: Medical studentsâ€™ preferences for and usage of electronic learning resources during two different phases of their education. <i>FASEB BioAdvances</i> , 2022, 4, 298-308.	2.4	9
61	What faculty write versus what students see? Perspectives on multiple-choice questions using Bloomâ€™s taxonomy. <i>Medical Teacher</i> , 2021, 43, 575-582.	1.8	6
62	ObGyn Delivered: Social Media Serving Medical Studentsâ€™ Learning Needs. <i>Medical Science Educator</i> , 2021, 31, 827-836.	1.5	6
63	Digital information and communication technologies on histology learning: What to expect?â€”An integrative review. <i>Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia</i> , 2022, 51, 180-188.	0.7	6
64	Specific release of protein disulphide-isomerase from pancreatic microsomal membranes. <i>Biochemical Society Transactions</i> , 1988, 16, 58-58.	3.4	4
65	Fasciclin II: The NCAM Ortholog in <i>Drosophila melanogaster</i> . <i>Neurochemical Research</i> , 2010, , 387.	3.3	4
66	A membrane preparation that contains proteins characteristic of the rough endoplasmic reticulum. <i>Biology of the Cell</i> , 1988, 62, 281-288.	2.0	3
67	<i>Drosophila Echinoid</i> is an antagonist of Egfr signalling, but is not a member of the L1-type family of cell adhesion molecules. <i>Development (Cambridge)</i> , 2003, 130, 5295-5295.	2.5	3
68	Sharing Virtual Histology Images Worldwide - The Virtual Microscopy Database. <i>Journal of Cytology & Histology</i> , 2017, 08, .	0.1	3
69	Cell Adhesion Molecules of the NCAM Family and Their Roles at Synapses. , 2009, , 265-299.		2
70	Introduction to the special collection on biomedical education. <i>FASEB BioAdvances</i> , 2020, 2, 629-630.	2.4	2
71	Artistsâ€™ Statement. <i>Academic Medicine</i> , 2016, 91, 490.	1.6	1
72	The Two Major Protein Isoforms of Ankyrin 2 are Differentially Localized in <i>Drosophila</i> Neurons. <i>Cellular and Molecular Biology Letters</i> , 2001, 6, 209.	7.0	1

#	ARTICLE	IF	CITATIONS
73	Brave New Eâ€WWorld: Medical Studentsâ€™ Preferences for and Usage of Electronic Learning Resources during Two Different Phases of Their Education. FASEB Journal, 2022, 36, .	0.5	1
74	In Reply to Wald. Academic Medicine, 2017, 92, 277.	1.6	0
75	The road taken â€“ changing oneâ€™s professional focus at a large research university. Developmental Biology, 2020, 459, 39-42.	2.0	0
76	Taking a SecondLook â„¢ at teaching histology â€“ Development of a selfâ€evaluation iPad application. FASEB Journal, 2013, 27, 959.2.	0.5	0
77	The importance of the human element in teaching the anatomical sciences. Surgical and Radiologic Anatomy, 2022, 44, 499-500.	1.2	0