

# Michael Fainzilber

## List of Publications by Year in descending order

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111  
papers

8,109  
citations

44069

48  
h-index

51608

86  
g-index

118  
all docs

118  
docs citations

118  
times ranked

7131  
citing authors

#	ARTICLE	IF	CITATIONS
1	Î²-sitosterol reduces anxiety and synergizes with established anxiolytic drugs in mice. <i>Cell Reports Medicine</i> , 2021, 2, 100281.	6.5	13
2	The glycine arginine-rich domain of the RNA-binding protein nucleolin regulates its subcellular localization. <i>EMBO Journal</i> , 2021, 40, e107158.	7.8	23
3	A Ca <sup>2+</sup> -Dependent Switch Activates Axonal Casein Kinase 2 <sup>1±</sup> Translation and Drives G3BP1 Granule Disassembly for Axon Regeneration. <i>Current Biology</i> , 2020, 30, 4882-4895.e6.	3.9	22
4	Importin Î³3 regulates chronic pain pathways in peripheral sensory neurons. <i>Science</i> , 2020, 369, 842-846.	12.6	45
5	DYNLRB1 is essential for dynein mediated transport and neuronal survival. <i>Neurobiology of Disease</i> , 2020, 140, 104816.	4.4	15
6	Hidden Figures: A Non-translated RNA Regulates Axonal Neurotrophin Signaling. <i>Neuron</i> , 2019, 102, 507-509.	8.1	0
7	Cell size sensingâ€”a one-dimensional solution for a three-dimensional problem?. <i>BMC Biology</i> , 2019, 17, 36.	3.8	9
8	Translating regeneration: Local protein synthesis in the neuronal injury response. <i>Neuroscience Research</i> , 2019, 139, 26-36.	1.9	29
9	Reactive oxygen species regulate axonal regeneration through the release of exosomal NADPH oxidase 2 complexes into injured axons. <i>Nature Cell Biology</i> , 2018, 20, 307-319.	10.3	233
10	Locally translated mTOR controls axonal local translation in nerve injury. <i>Science</i> , 2018, 359, 1416-1421.	12.6	220
11	Omics approaches for subcellular translation studies. <i>Molecular Omics</i> , 2018, 14, 380-388.	2.8	11
12	Importin Î³5 Regulates Anxiety through MeCP2 and Sphingosine Kinase 1. <i>Cell Reports</i> , 2018, 25, 3169-3179.e7.	6.4	25
13	The use of mouse models to probe cytoplasmic dynein function. , 2018, , 234-261.		4
14	hnRNPs Interacting with mRNA Localization Motifs Define Axonal RNA Regulons. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2091-2106.	3.8	32
15	Axonal G3BP1 stress granule protein limits axonal mRNA translation and nerve regeneration. <i>Nature Communications</i> , 2018, 9, 3358.	12.8	114
16	Translatome Regulation in Neuronal Injury and Axon Regrowth. <i>ENeuro</i> , 2018, 5, ENEURO.0276-17.2018.	1.9	26
17	Compartmentalized Signaling in Neurons: From Cell Biology to Neuroscience. <i>Neuron</i> , 2017, 96, 667-679.	8.1	107
18	COLORcation : A new application to phenotype exploratory behavior models of anxiety in mice. <i>Journal of Neuroscience Methods</i> , 2016, 270, 9-16.	2.5	10

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19	Nucleolin-Mediated RNA Localization Regulates Neuron Growth and Cycling Cell Size. <i>Cell Reports</i> , 2016, 16, 1664-1676.	6.4	64
20	Axonal $\gamma$ -PPAR $\beta$ promotes neuronal regeneration after injury. <i>Developmental Neurobiology</i> , 2016, 76, 688-701.	3.0	30
21	Isolation and analyses of axonal ribonucleoprotein complexes. <i>Methods in Cell Biology</i> , 2016, 131, 467-486.	1.1	9
22	A Systems-Level Analysis of the Peripheral Nerve Intrinsic Axonal Growth Program. <i>Neuron</i> , 2016, 89, 956-970.	8.1	314
23	Neuroproteomics: How Many Angels can be Identified in an Extract from the Head of a Pin?. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 341-343.	3.8	4
24	Growth control mechanisms in neuronal regeneration. <i>FEBS Letters</i> , 2015, 589, 1669-1677.	2.8	53
25	Macromolecular transport in synapse to nucleus communication. <i>Trends in Neurosciences</i> , 2015, 38, 108-116.	8.6	69
26	Local translation in neuronal processes— <i>in vivo</i> tests of a “heretical hypothesis”. <i>Developmental Neurobiology</i> , 2014, 74, 210-217.	3.0	45
27	Axon-soma communication in neuronal injury. <i>Nature Reviews Neuroscience</i> , 2014, 15, 32-42.	10.2	230
28	WISNeuromath enables versatile high throughput analyses of neuronal processes. <i>Developmental Neurobiology</i> , 2013, 73, 247-256.	3.0	54
29	Alternative energy for neuronal motors. <i>Nature</i> , 2013, 495, 178-179.	27.8	7
30	Cell length sensing for neuronal growth control. <i>Trends in Cell Biology</i> , 2013, 23, 305-310.	7.9	33
31	Axonal transcription factors signal retrogradely in lesioned peripheral nerve. <i>EMBO Journal</i> , 2012, 31, 1350-1363.	7.8	241
32	STK25 Protein Mediates TrkA and CCM2 Protein-dependent Death in Pediatric Tumor Cells of Neural Origin. <i>Journal of Biological Chemistry</i> , 2012, 287, 29285-29289.	3.4	21
33	Subcellular Knockout of Importin $\beta$ 1 Perturbs Axonal Retrograde Signaling. <i>Neuron</i> , 2012, 75, 294-305.	8.1	180
34	A Motor-Driven Mechanism for Cell-Length Sensing. <i>Cell Reports</i> , 2012, 1, 608-616.	6.4	55
35	Functional Consequences of Necdin Nucleocytoplasmic Localization. <i>PLoS ONE</i> , 2012, 7, e33786.	2.5	10
36	From Synapse to Nucleus and Back Again—Communication over Distance within Neurons. <i>Journal of Neuroscience</i> , 2011, 31, 16045-16048.	3.6	34

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37	Behavioral and Other Phenotypes in a Cytoplasmic Dynein Light Intermediate Chain 1 Mutant Mouse. <i>Journal of Neuroscience</i> , 2011, 31, 5483-5494.	3.6	23
38	When zip codes are in short supply. <i>EMBO Journal</i> , 2011, 30, 4520-4522.	7.8	2
39	Signaling to Transcription Networks in the Neuronal Retrograde Injury Response. <i>Science Signaling</i> , 2010, 3, ra53.	3.6	159
40	Axoplasm Isolation from Rat Sciatic Nerve. <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	4
41	Axoplasm isolation from peripheral nerve. <i>Developmental Neurobiology</i> , 2010, 70, 126-133.	3.0	34
42	On the death Trk. <i>Developmental Neurobiology</i> , 2010, 70, 298-303.	3.0	25
43	Subcellular Communication Through RNA Transport and Localized Protein Synthesis. <i>Traffic</i> , 2010, 11, 1498-1505.	2.7	99
44	Axonal Transport Proteomics Reveals Mobilization of Translation Machinery to the Lesion Site in Injured Sciatic Nerve. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 976-987.	3.8	54
45	Retrograde signaling in axonal regeneration. <i>Experimental Neurology</i> , 2010, 223, 5-10.	4.1	84
46	A human neuron injury model for molecular studies of axonal regeneration. <i>Experimental Neurology</i> , 2010, 223, 119-127.	4.1	12
47	Can Molecular Motors Drive Distance Measurements in Injured Neurons?. <i>PLoS Computational Biology</i> , 2009, 5, e1000477.	3.2	32
48	Ran on tracks " cytoplasmic roles for a nuclear regulator. <i>Journal of Cell Science</i> , 2009, 122, 587-593.	2.0	121
49	Ribosomes in axons " scrounging from the neighbors?. <i>Trends in Cell Biology</i> , 2009, 19, 236-243.	7.9	93
50	CCM2 Mediates Death Signaling by the TrkA Receptor Tyrosine Kinase. <i>Neuron</i> , 2009, 63, 585-591.	8.1	58
51	Nuclear transport factors in neuronal function. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 600-606.	5.0	44
52	Retrograde Injury Signaling in Lesioned Axons. <i>Results and Problems in Cell Differentiation</i> , 2009, 48, 206-236.	0.7	11
53	European grants: a lifeline in poorly funded countries. <i>Nature</i> , 2008, 455, 285-285.	27.8	1
54	Localized Regulation of Axonal RanGTPase Controls Retrograde Injury Signaling in Peripheral Nerve. <i>Neuron</i> , 2008, 59, 241-252.	8.1	211

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55	AXONAL RESPONSES TO INJURY. , 2008, , 41-57.		0
56	Introduction: Translating developmentâ€”From bench to bedside with molecular neurobiology. <i>Developmental Neurobiology</i> , 2007, 67, 1129-1132.	3.0	0
57	Activists: arson risks killing innocent people. <i>Nature</i> , 2007, 448, 22-22.	27.8	0
58	Vimentin Binding to Phosphorylated Erk Sterically Hinders Enzymatic Dephosphorylation of the Kinase. <i>Journal of Molecular Biology</i> , 2006, 364, 938-944.	4.2	141
59	Tracking in the Wldsâ€”The Hunting of the SIRT and the Luring of the Draper. <i>Neuron</i> , 2006, 50, 819-821.	8.1	24
60	Retrograde signaling in injured nerve ? the axon reaction revisited. <i>Journal of Neurochemistry</i> , 2006, 99, 13-19.	3.9	160
61	Building Complex Brains â€” Missing Pieces in an Evolutionary Puzzle. <i>Brain, Behavior and Evolution</i> , 2006, 68, 191-195.	1.7	11
62	A Genome Wide Screening Approach for Membrane-targeted Proteins. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 328-333.	3.8	4
63	Vimentin-Dependent Spatial Translocation of an Activated MAP Kinase in Injured Nerve. <i>Neuron</i> , 2005, 45, 715-726.	8.1	483
64	O-Sulfonation of Serine and Threonine. <i>Molecular and Cellular Proteomics</i> , 2004, 3, 429-440.	3.8	122
65	Differential Proteomics Reveals Multiple Components in Retrogradely Transported Axoplasm After Nerve Injury. <i>Molecular and Cellular Proteomics</i> , 2004, 3, 510-520.	3.8	54
66	Multi-tasking by the p75 neurotrophin receptor: sortilin things out?. <i>EMBO Reports</i> , 2004, 5, 867-871.	4.5	82
67	Working hard for the money. <i>Nature</i> , 2004, 427, 485-485.	27.8	1
68	From snails to sciatic nerve: Retrograde injury signaling from axon to soma in lesioned neurons. <i>Journal of Neurobiology</i> , 2004, 58, 287-294.	3.6	53
69	Neurotrophic activities of trk receptors conserved over 600 million years of evolution. <i>Journal of Neurobiology</i> , 2004, 60, 12-20.	3.6	28
70	Integration of Retrograde Axonal and Nuclear Transport Mechanisms in Neurons: Implications for Therapeutics. <i>Neuroscientist</i> , 2004, 10, 404-408.	3.5	37
71	Axoplasmic Importins Enable Retrograde Injury Signaling in Lesioned Nerve. <i>Neuron</i> , 2003, 40, 1095-1104.	8.1	459
72	The Prodomain of a Secreted Hydrophobic Mini-protein Facilitates Its Export from the Endoplasmic Reticulum by Hitchhiking on Sorting Receptors. <i>Journal of Biological Chemistry</i> , 2003, 278, 26311-26314.	3.4	33

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73	Ligand-Induced Internalization of the p75 Neurotrophin Receptor: A Slow Route to the Signaling Endosome. <i>Journal of Neuroscience</i> , 2003, 23, 3209-3220.	3.6	180
74	Nerve Growth Factor-induced p75-mediated Death of Cultured Hippocampal Neurons Is Age-dependent and Transduced through Ceramide Generated by Neutral Sphingomyelinase. <i>Journal of Biological Chemistry</i> , 2002, 277, 9812-9818.	3.4	113
75	The p75 Neurotrophin Receptor Interacts with Multiple MAGE Proteins. <i>Journal of Biological Chemistry</i> , 2002, 277, 49101-49104.	3.4	84
76	Rabies Virus Glycoprotein (RVG) Is a Trimeric Ligand for the N-terminal Cysteine-rich Domain of the Mammalian p75 Neurotrophin Receptor. <i>Journal of Biological Chemistry</i> , 2002, 277, 37655-37662.	3.4	70
77	Three-dimensional Solution Structure of the Sodium Channel Agonist/Antagonist Î-conotoxin TxVIA. <i>Journal of Biological Chemistry</i> , 2002, 277, 36387-36391.	3.4	30
78	Genetic Models Meet Trophic Mechanisms. <i>Neuron</i> , 2002, 33, 673-675.	8.1	9
79	Novel Î-conotoxins Block Dihydropyridine-Insensitive High Voltage-Activated Calcium Channels in Molluscan Neurons. <i>Journal of Neurochemistry</i> , 2002, 67, 2155-2163.	3.9	28
80	Interactions of Î-conotoxins with Alkaloid Neurotoxins Reveal Differences Between the Silent and Effective Binding Sites on Voltage-Sensitive Sodium Channels. <i>Journal of Neurochemistry</i> , 2002, 67, 2451-2460.	3.9	16
81	Don't punish scientists for government actions. <i>Nature</i> , 2002, 417, 15-15.	27.8	0
82	Evolving better brains: a need for neurotrophins?. <i>Trends in Neurosciences</i> , 2001, 24, 79-85.	8.6	62
83	Mechanisms for Evolving Hypervariability: The Case of Conopeptides. <i>Molecular Biology and Evolution</i> , 2001, 18, 120-131.	8.9	210
84	Position-specific codon conservation in hypervariable gene families. <i>Trends in Genetics</i> , 2000, 16, 57-59.	6.7	49
85	A lyso-platelet activating factor phospholipase C, originally suggested to be a neutral-sphingomyelinase, is located in the endoplasmic reticulum. <i>FEBS Letters</i> , 2000, 469, 44-46.	2.8	21
86	Ceramide Signaling Downstream of the p75 Neurotrophin Receptor Mediates the Effects of Nerve Growth Factor on Outgrowth of Cultured Hippocampal Neurons. <i>Journal of Neuroscience</i> , 1999, 19, 8199-8206.	3.6	184
87	â€¦ using peer review as a guide to quality. <i>Nature</i> , 1999, 401, 111-111.	27.8	1
88	Distinct structural elements in GDNF mediate binding to GFRalpha 1 and activation of the GFRalpha 1-c-Ret receptor complex. <i>EMBO Journal</i> , 1999, 18, 5901-5910.	7.8	103
89	Identification of tyrosine sulfation in <i>Conus pennaceus</i> conotoxins Î±-PnIA and Î±-PnIB: further investigation of labile sulfo- and phosphopeptides by electrospray, matrix-assisted laser desorption/ionization (MALDI) and atmospheric pressure MALDI mass spectrometry. , 1999, 34, 447-454.		85
90	Synthesis, Bioactivity, and Cloning of the L-Type Calcium Channel Blocker Î-conotoxin TxVIIâ€¦. <i>Biochemistry</i> , 1999, 38, 12876-12884.	2.5	30

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91	Identification of tyrosine sulfation in <i>Conus pennaceus</i> conotoxins $\hat{\pm}$ -PnIA and $\hat{\pm}$ -PnIB: further investigation of labile sulfo- and phosphopeptides by electrospray, matrix-assisted laser desorption/ionization (MALDI) and atmospheric pressure MALDI mass spectrometry Dedicated to the memory of Professor Dr Wilhelm J. Richter.. <i>Journal of Mass Spectrometry</i> , 1999, 34, 447.	1.6	4
92	Early evolutionary origin of the neurotrophin receptor family. <i>EMBO Journal</i> , 1998, 17, 2534-2542.	7.8	74
93	Neurotrophin $\hat{\epsilon}$ 7: a novel member of the neurotrophin family from the zebrafish. <i>FEBS Letters</i> , 1998, 424, 285-290.	2.8	105
94	$\hat{\beta}$ -Conotoxin-PnVIA, A $\hat{\beta}$ -Carboxyglutamate-Containing Peptide Agonist of Neuronal Pacemaker Cation Currents $\hat{\epsilon}$ . <i>Biochemistry</i> , 1998, 37, 1470-1477.	2.5	49
95	Advantage of knowing nature's secrets. <i>Nature</i> , 1997, 386, 431-431.	27.8	0
96	A Novel Hydrophobic $\hat{\gamma}$ -Conotoxin Blocks Molluscan Dihydropyridine-Sensitive Calcium Channels. <i>Biochemistry</i> , 1996, 35, 8748-8752.	2.5	50
97	CRNF, a Molluscan Neurotrophic Factor That Interacts with the p75 Neurotrophin Receptor. <i>Science</i> , 1996, 274, 1540-1543.	12.6	76
98	Mass spectrometric $\hat{\epsilon}$ -based revision of the structure of a cysteine $\hat{\epsilon}$ -rich peptide toxin with $\hat{\beta}$ $\hat{\alpha}$ -carboxyglutamic acid, TxVIA, from the sea snail, <i>Conus textile</i> . <i>Protein Science</i> , 1996, 5, 524-530.	7.6	55
99	Functional receptor for GDNF encoded by the c-ret proto-oncogene. <i>Nature</i> , 1996, 381, 785-789.	27.8	785
100	Metamorphoses of a Conotoxin. <i>Advances in Experimental Medicine and Biology</i> , 1996, 391, 387-401.	1.6	0
101	Electrophysiological Characterization of a Novel Conotoxin That Blocks Molluscan Sodium Channels. <i>European Journal of Neuroscience</i> , 1995, 7, 815-818.	2.6	7
102	A New Conotoxin Affecting Sodium Current Inactivation Interacts with the $\hat{\gamma}$ -Conotoxin Receptor Site. <i>Journal of Biological Chemistry</i> , 1995, 270, 1123-1129.	3.4	52
103	New Sodium Channel-Blocking Conotoxins Also Affect Calcium Currents in <i>Lymnaea</i> Neurons. <i>Biochemistry</i> , 1995, 34, 5364-5371.	2.5	71
104	A new cysteine framework in sodium channel blocking conotoxins. <i>Biochemistry</i> , 1995, 34, 8649-8656.	2.5	35
105	Marine warning via peptide toxin. <i>Nature</i> , 1994, 369, 192-193.	27.8	8
106	New Mollusk-Specific $\hat{\alpha}$ -Conotoxins Block <i>Aplysia</i> Neuronal Acetylcholine Receptors. <i>Biochemistry</i> , 1994, 33, 9523-9529.	2.5	127
107	Alteration of Sodium Currents by New Peptide Toxins From the Venom of a Molluscivorous <i>Conus</i> Snail. <i>European Journal of Neuroscience</i> , 1993, 5, 56-64.	2.6	57
108	Molluscivorous <i>Conus</i> Toxins as Probes for Voltage and Ligand Gated Ion Channels in Molluscs. <i>Animal Biology</i> , 1993, 44, 486-494.	0.4	1

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109	A new bioassay reveals mollusc-specific toxicity in molluscivorous Conus venoms. <i>Toxicon</i> , 1992, 30, 465-469.	1.6	15
110	Mollusc-specific toxins from the venom of <i>Conus textile neovicarius</i> . <i>FEBS Journal</i> , 1991, 202, 589-595.	0.2	88
111	Proteomic Approaches to Axon Injury – Postgenomic Approaches to a Posttranscriptional Process. , 0, , 153-166.		0