

Joan Comella

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.

114 papers	5,213 citations	46 h-index	69 g-index
117 ext. papers	5,682 ext. citations	6.6 avg, IF	4.91 L-index

#	Paper	IF	Citations
114	FAIM-L - SIVA-1: Two Modulators of XIAP in Non-Apoptotic Caspase Function.. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 826037	5.7	
113	Faim knockout leads to gliosis and late-onset neurodegeneration of photoreceptors in the mouse retina. <i>Journal of Neuroscience Research</i> , 2021 ,	4.4	3
112	Intracellular pathways involved in cell survival are deregulated in mouse and human spinal muscular atrophy motoneurons. <i>Neurobiology of Disease</i> , 2021 , 155, 105366	7.5	3
111	Is Regulated by MiR-206, MiR-1-3p and MiR-133b. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 584606	5.7	5
110	SIVA-1 regulates apoptosis and synaptic function by modulating XIAP interaction with the death receptor antagonist FAIM-L. <i>Cell Death and Disease</i> , 2020 , 11, 82	9.8	5
109	Combining magnetic nanoparticles and icosahedral boron clusters in biocompatible inorganic nanohybrids for cancer therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 20, 101986 ⁶		13
108	Genome Wide Meta-Analysis identifies common genetic signatures shared by heart function and Alzheimer's disease. <i>Scientific Reports</i> , 2019 , 9, 16665	4.9	4
107	Syntaxin-1/TI-VAMP SNAREs interact with Trk receptors and are required for neurotrophin-dependent outgrowth. <i>Oncotarget</i> , 2018 , 9, 35922-35940	3.3	4
106	Phagocytic clearance of presynaptic dystrophies by reactive astrocytes in Alzheimer's disease. <i>Glia</i> , 2018 , 66, 637-653	9	87
105	Identification and characterization of new isoforms of human fas apoptotic inhibitory molecule (FAIM). <i>PLoS ONE</i> , 2017 , 12, e0185327	3.7	6
104	Fas apoptosis inhibitory molecules: more than death-receptor antagonists in the nervous system. <i>Journal of Neurochemistry</i> , 2016 , 139, 11-21	6	17
103	Reelin Regulates the Maturation of Dendritic Spines, Synaptogenesis and Glial Ensheathment of Newborn Granule Cells. <i>Cerebral Cortex</i> , 2016 , 26, 4282-4298	5.1	38
102	BRG1/SMARCA4 is essential for neuroblastoma cell viability through modulation of cell death and survival pathways. <i>Oncogene</i> , 2016 , 35, 5179-90	9.2	48
101	FAIM-L regulation of XIAP degradation modulates Synaptic Long-Term Depression and Axon Degeneration. <i>Scientific Reports</i> , 2016 , 6, 35775	4.9	14
100	Lifeguard Inhibits Fas Ligand-mediated Endoplasmic Reticulum-Calcium Release Mandatory for Apoptosis in Type II Apoptotic Cells. <i>Journal of Biological Chemistry</i> , 2016 , 291, 1221-34	5.4	16
99	TNF β sensitizes neuroblastoma cells to FasL-, cisplatin- and etoposide-induced cell death by NF- κ B-mediated expression of Fas. <i>Molecular Cancer</i> , 2015 , 14, 62	42.1	14
98	Amyloid- β reduces the expression of neuronal FAIM-L, thereby shifting the inflammatory response mediated by TNF α from neuronal protection to death. <i>Cell Death and Disease</i> , 2015 , 6, e1639	9.8	27

97	Evaluation of Candidate Genes Related to Neuronal Apoptosis in Late-Onset Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2015 , 45, 621-9	4.3	3
96	FIB/SEM technology and high-throughput 3D reconstruction of dendritic spines and synapses in GFP-labeled adult-generated neurons. <i>Frontiers in Neuroanatomy</i> , 2015 , 9, 60	3.6	54
95	Neurodegeneration and neuroinflammation: two processes, one target. <i>Neural Regeneration Research</i> , 2015 , 10, 1581-3	4.5	5
94	Activation-induced cell death in T lymphocytes from multiple sclerosis patients. <i>Journal of Neuroimmunology</i> , 2014 , 272, 51-5	3.5	8
93	Histone deacetylase inhibitors promote glioma cell death by G2 checkpoint abrogation leading to mitotic catastrophe. <i>Cell Death and Disease</i> , 2014 , 5, e1435	9.8	76
92	MYCN repression of Lifeguard/FAIM2 enhances neuroblastoma aggressiveness. <i>Cell Death and Disease</i> , 2014 , 5, e1401	9.8	10
91	Amyloid Beta, TNF α and FAIM-L; Approaching New Therapeutic Strategies for AD. <i>Frontiers in Neurology</i> , 2014 , 5, 276	4.1	5
90	Syntaxin 1 is required for DCC/Netrin-1-dependent chemoattraction of migrating neurons from the lower rhombic lip. <i>European Journal of Neuroscience</i> , 2013 , 38, 2338-2338	3.5	
89	NF- κ B activation fails to protect cells to TNF α -induced apoptosis in the absence of Bcl-xL, but not Mcl-1, Bcl-2 or Bcl-w. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013 , 1833, 1085-95	4.9	10
88	Neurobehavioral characterization of Endonuclease G knockout mice reveals a new putative molecular player in the regulation of anxiety. <i>Experimental Neurology</i> , 2013 , 247, 122-9	5.7	2
87	FAIM-L is an IAP-binding protein that inhibits XIAP ubiquitinylation and protects from Fas-induced apoptosis. <i>Journal of Neuroscience</i> , 2013 , 33, 19262-75	6.6	19
86	A pathway involving HDAC5, cFLIP and caspases regulates expression of the splicing regulator polypyrimidine tract binding protein in the heart. <i>Journal of Cell Science</i> , 2013 , 126, 1682-91	5.3	17
85	Chromatin collapse during caspase-dependent apoptotic cell death requires DNA fragmentation factor, 40-kDa subunit-/caspase-activated deoxyribonuclease-mediated 3'-OH single-strand DNA breaks. <i>Journal of Biological Chemistry</i> , 2013 , 288, 9200-15	5.4	26
84	TNF α induces survival through the FLIP-L-dependent activation of the MAPK/ERK pathway. <i>Cell Death and Disease</i> , 2013 , 4, e493	9.8	47
83	A role for the tyrosine kinase ACK1 in neurotrophin signaling and neuronal extension and branching. <i>Cell Death and Disease</i> , 2013 , 4, e602	9.8	16
82	X-linked inhibitor of apoptosis protein negatively regulates neuronal differentiation through interaction with cRAF and Trk. <i>Scientific Reports</i> , 2013 , 3, 2397	4.9	12
81	Oxidative stress and proinflammatory cytokines contribute to demyelination and axonal damage in a cerebellar culture model of neuroinflammation. <i>PLoS ONE</i> , 2013 , 8, e54722	3.7	150
80	Syntaxin 1 is required for DCC/Netrin-1-dependent chemoattraction of migrating neurons from the lower rhombic lip. <i>European Journal of Neuroscience</i> , 2012 , 36, 3152-64	3.5	23

79	Translation of Myocyte Enhancer Factor-2 is induced by hypertrophic stimuli in cardiomyocytes through a Calcineurin-dependent pathway. <i>Journal of Molecular and Cellular Cardiology</i> , 2012 , 53, 578-87	5.8	15
78	Apoptotic DNA degradation into oligonucleosomal fragments, but not apoptotic nuclear morphology, relies on a cytosolic pool of DFF40/CAD endonuclease. <i>Journal of Biological Chemistry</i> , 2012 , 287, 7766-79	5.4	22
77	Endonuclease G is a novel determinant of cardiac hypertrophy and mitochondrial function. <i>Nature</i> , 2011 , 478, 114-8	50.4	114
76	EndoG links Bnip3-induced mitochondrial damage and caspase-independent DNA fragmentation in ischemic cardiomyocytes. <i>PLoS ONE</i> , 2011 , 6, e17998	3.7	25
75	Ubiquitination of TrkA by Nedd4-2 regulates receptor lysosomal targeting and mediates receptor signaling. <i>Journal of Neurochemistry</i> , 2011 , 117, 479-93	6	28
74	A new model to study spinal muscular atrophy: neurite degeneration and cell death is counteracted by BCL-X(L) Overexpression in motoneurons. <i>Neurobiology of Disease</i> , 2011 , 42, 415-26	7.5	28
73	Induction of ER stress in response to oxygen-glucose deprivation of cortical cultures involves the activation of the PERK and IRE-1 pathways and of caspase-12. <i>Cell Death and Disease</i> , 2011 , 2, e149	9.8	116
72	The death receptor antagonist FLIP-L interacts with Trk and is necessary for neurite outgrowth induced by neurotrophins. <i>Journal of Neuroscience</i> , 2010 , 30, 6094-105	6.6	13
71	Activation of caspase-8 by tumour necrosis factor receptor 1 is necessary for caspase-3 activation and apoptosis in oxygen-glucose deprived cultured cortical cells. <i>Neurobiology of Disease</i> , 2009 , 35, 438-47	4.7	35
70	Polypyrimidine tract binding proteins (PTB) regulate the expression of apoptotic genes and susceptibility to caspase-dependent apoptosis in differentiating cardiomyocytes. <i>Cell Death and Differentiation</i> , 2009 , 16, 1460-8	12.7	29
69	Specific vulnerability of mouse spinal cord motoneurons to membrane depolarization. <i>Journal of Neurochemistry</i> , 2009 , 110, 1842-54	6	19
68	BCL-XL regulates TNF-alpha-mediated cell death independently of NF-kappaB, FLIP and IAPs. <i>Cell Research</i> , 2008 , 18, 1020-36	24.7	30
67	Analysis of Ret knockin mice reveals a critical role for IKKs, but not PI 3-K, in neurotrophic factor-induced survival of sympathetic neurons. <i>Cell Death and Differentiation</i> , 2008 , 15, 1510-21	12.7	24
66	6-Hydroxydopamine activates the mitochondrial apoptosis pathway through p38 MAPK-mediated, p53-independent activation of Bax and PUMA. <i>Journal of Neurochemistry</i> , 2008 , 104, 1599-612	6	108
65	Neuroprotection by neurotrophic factors and membrane depolarization is regulated by calmodulin kinase IV. <i>Journal of Biological Chemistry</i> , 2008 , 283, 4133-44	5.4	11
64	A TrkB/EphrinA interaction controls retinal axon branching and synaptogenesis. <i>Journal of Neuroscience</i> , 2008 , 28, 12700-12	6.6	131
63	Signalling by neurotrophins and hepatocyte growth factor regulates axon morphogenesis by differential beta-catenin phosphorylation. <i>Journal of Cell Science</i> , 2008 , 121, 2718-30	5.3	47
62	Tyr-701 is a new regulatory site for neurotrophin receptor TrkA trafficking and function. <i>Journal of Neurochemistry</i> , 2008 , 104, 124-39	6	8

61	Reactive oxygen species and p38 mitogen-activated protein kinase activate Bax to induce mitochondrial cytochrome c release and apoptosis in response to malonate. <i>Molecular Pharmacology</i> , 2007 , 71, 736-43	4.3	120
60	Differential, age-dependent MEK-ERK and PI3K-Akt activation by insulin acting as a survival factor during embryonic retinal development. <i>Developmental Neurobiology</i> , 2007 , 67, 1777-88	3.2	30
59	Met signals hepatocyte survival by preventing Fas-triggered FLIP degradation in a PI3k-Akt-dependent manner. <i>Hepatology</i> , 2007 , 45, 1210-7	11.2	72
58	Lifeguard/neuronal membrane protein 35 regulates Fas ligand-mediated apoptosis in neurons via microdomain recruitment. <i>Journal of Neurochemistry</i> , 2007 , 103, 190-203	6	57
57	The long form of Fas apoptotic inhibitory molecule is expressed specifically in neurons and protects them against death receptor-triggered apoptosis. <i>Journal of Neuroscience</i> , 2007 , 27, 11228-41	6.6	62
56	Reelin induces the detachment of postnatal subventricular zone cells and the expression of the Egr-1 through Erk1/2 activation. <i>Cerebral Cortex</i> , 2007 , 17, 294-303	5.1	53
55	Developmental silencing and independency from E2F of apoptotic gene expression in postmitotic tissues. <i>FEBS Letters</i> , 2007 , 581, 5781-6	3.8	8
54	Proteasome inhibitors induce death but activate NF-kappaB on endometrial carcinoma cell lines and primary culture explants. <i>Journal of Biological Chemistry</i> , 2006 , 281, 22118-22130	5.4	86
53	Switch from caspase-dependent to caspase-independent death during heart development: essential role of endonuclease G in ischemia-induced DNA processing of differentiated cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2006 , 281, 22943-52	5.4	71
52	Origin and evolution of the Trk family of neurotrophic receptors. <i>Molecular and Cellular Neurosciences</i> , 2006 , 31, 179-92	4.8	41
51	Antiproliferative effect of STI571 on cultured human cutaneous melanoma-derived cell lines. <i>Melanoma Research</i> , 2006 , 16, 127-35	3.3	13
50	Outlining the nascent nervous system of Branchiostoma floridae (amphioxus) by the pan-neural marker Amphielav. <i>Brain Research Bulletin</i> , 2005 , 66, 518-21	3.9	19
49	Malonate induces cell death via mitochondrial potential collapse and delayed swelling through an ROS-dependent pathway. <i>British Journal of Pharmacology</i> , 2005 , 144, 528-37	8.6	47
48	FLIP is frequently expressed in endometrial carcinoma and has a role in resistance to TRAIL-induced apoptosis. <i>Laboratory Investigation</i> , 2005 , 85, 885-94	5.9	55
47	The single AmphiTrk receptor highlights increased complexity of neurotrophin signalling in vertebrates and suggests an early role in developing sensory neuroepidermal cells. <i>Development (Cambridge)</i> , 2005 , 132, 2191-202	6.6	53
46	The contribution of apoptosis-inducing factor, caspase-activated DNase, and inhibitor of caspase-activated DNase to the nuclear phenotype and DNA degradation during apoptosis. <i>Journal of Biological Chemistry</i> , 2005 , 280, 35670-83	5.4	73
45	Glial cell line-derived neurotrophic factor increases intracellular calcium concentration. Role of calcium/calmodulin in the activation of the phosphatidylinositol 3-kinase pathway. <i>Journal of Biological Chemistry</i> , 2004 , 279, 6132-42	5.4	67
44	Bcl-2 is a key factor for cardiac fibroblast resistance to programmed cell death. <i>Journal of Biological Chemistry</i> , 2004 , 279, 34882-9	5.4	64

43	Basic helix-loop-helix proteins bind to TrkB and p21(Cip1) promoters linking differentiation and cell cycle arrest in neuroblastoma cells. <i>Molecular and Cellular Biology</i> , 2004 , 24, 2662-72	4.8	75
42	The death receptor antagonist FAIM promotes neurite outgrowth by a mechanism that depends on ERK and NF-kapp B signaling. <i>Journal of Cell Biology</i> , 2004 , 167, 479-92	7.3	69
41	Trk is a calmodulin-binding protein: implications for receptor processing. <i>Journal of Neurochemistry</i> , 2004 , 88, 422-33	6	12
40	Characterization of splice variants of human caspase-activated DNase with CIDE-N structure and function. <i>FEBS Letters</i> , 2004 , 566, 234-40	3.8	9
39	Differential involvement of phosphatidylinositol 3-kinase and p42/p44 mitogen activated protein kinase pathways in brain-derived neurotrophic factor-induced trophic effects on cultured striatal neurons. <i>Molecular and Cellular Neurosciences</i> , 2004 , 25, 460-8	4.8	28
38	Lack of Apaf-1 expression confers resistance to cytochrome c-driven apoptosis in cardiomyocytes. <i>Cell Death and Differentiation</i> , 2003 , 10, 977-86	12.7	58
37	Mu-opioid receptor activation prevents apoptosis following serum withdrawal in differentiated SH-SY5Y cells and cortical neurons via phosphatidylinositol 3-kinase. <i>Neuropharmacology</i> , 2003 , 44, 482-92	5.5	61
36	The prevention of the staurosporine-induced apoptosis by Bcl-X(L), but not by Bcl-2 or caspase inhibitors, allows the extensive differentiation of human neuroblastoma cells. <i>Journal of Neurochemistry</i> , 2002 , 80, 126-39	6	56
35	Isolation of AmphiCASP-3/7, an ancestral caspase from amphioxus (<i>Branchiostoma floridae</i>). Evolutionary considerations for vertebrate caspases. <i>Cell Death and Differentiation</i> , 2002 , 9, 1078-89	12.7	35
34	Neuronal survival induced by neurotrophins requires calmodulin. <i>Journal of Cell Biology</i> , 2001 , 154, 585-97	7.3	51
33	The absence of oligonucleosomal DNA fragmentation during apoptosis of IMR-5 neuroblastoma cells: disappearance of the caspase-activated DNase. <i>Journal of Biological Chemistry</i> , 2001 , 276, 22323-31	5.4	56
32	Cytokines promote motoneuron survival through the Janus kinase-dependent activation of the phosphatidylinositol 3-kinase pathway. <i>Molecular and Cellular Neurosciences</i> , 2001 , 18, 619-31	4.8	79
31	c-Src is required for glial cell line-derived neurotrophic factor (GDNF) family ligand-mediated neuronal survival via a phosphatidylinositol-3 kinase (PI-3K)-dependent pathway. <i>Journal of Neuroscience</i> , 2001 , 21, 1464-72	6.6	127
30	Sequential treatment of SH-SY5Y cells with retinoic acid and brain-derived neurotrophic factor gives rise to fully differentiated, neurotrophic factor-dependent, human neuron-like cells. <i>Journal of Neurochemistry</i> , 2000 , 75, 991-1003	6	521
29	Combined use of the green and yellow fluorescent proteins and fluorescence-activated cell sorting to select populations of transiently transfected PC12 cells. <i>Journal of Neuroscience Methods</i> , 2000 , 100, 63-9	3	11
28	PC12 cells have caveolae that contain TrkA. Caveolae-disrupting drugs inhibit nerve growth factor-induced, but not epidermal growth factor-induced, MAPK phosphorylation. <i>Journal of Biological Chemistry</i> , 2000 , 275, 37846-52	5.4	75
27	Nerve growth factor activation of the extracellular signal-regulated kinase pathway is modulated by Ca(2+) and calmodulin. <i>Molecular and Cellular Biology</i> , 2000 , 20, 1931-46	4.8	44
26	Activation of phosphatidylinositol 3-kinase, but not extracellular-regulated kinases, is necessary to mediate brain-derived neurotrophic factor-induced motoneuron survival. <i>Journal of Neurochemistry</i> , 1999 , 73, 521-31	6	99

25	Extracellular-regulated kinases and phosphatidylinositol 3-kinase are involved in brain-derived neurotrophic factor-mediated survival and neuritogenesis of the neuroblastoma cell line SH-SY5Y. <i>Journal of Neurochemistry</i> , 1999 , 73, 1409-21	6	203
24	Receptors of the glial cell line-derived neurotrophic factor family of neurotrophic factors signal cell survival through the phosphatidylinositol 3-kinase pathway in spinal cord motoneurons. <i>Journal of Neuroscience</i> , 1999 , 19, 9160-9	6.6	142
23	Calcium influx activates extracellular-regulated kinase/mitogen-activated protein kinase pathway through a calmodulin-sensitive mechanism in PC12 cells. <i>Journal of Biological Chemistry</i> , 1999 , 274, 75-85	5.4	85
22	Binding patterns of lectins with GalNAc specificity in the mouse dorsal root ganglia and spinal cord. <i>Journal of Neurocytology</i> , 1999 , 28, 75-84		2
21	Calmodulin modulates mitogen-activated protein kinase activation in response to membrane depolarization in PC12 cells. <i>Journal of Neurochemistry</i> , 1998 , 70, 2554-64	6	26
20	Serum deprivation and protein synthesis inhibition induce two different apoptotic processes in N18 neuroblastoma cells. <i>Experimental Cell Research</i> , 1998 , 238, 422-9	4.2	26
19	Development of survival responsiveness to brain-derived neurotrophic factor, neurotrophin 3 and neurotrophin 4/5, but not to nerve growth factor, in cultured motoneurons from chick embryo spinal cord. <i>Journal of Neuroscience</i> , 1998 , 18, 7903-11	6.6	56
18	Calmodulin is involved in membrane depolarization-mediated survival of motoneurons by phosphatidylinositol-3 kinase- and MAPK-independent pathways. <i>Journal of Neuroscience</i> , 1998 , 18, 1230-9	6.6	63
17	Characterization of the cell death process induced by staurosporine in human neuroblastoma cell lines. <i>Neuropharmacology</i> , 1997 , 36, 811-21	5.5	75
16	Cytosine arabinoside is neurotoxic to chick embryo spinal cord motoneurons in culture. <i>Neuroscience Letters</i> , 1997 , 223, 141-4	3.3	18
15	Molecular mechanisms controlling apoptotic cell death in the nervous system. <i>Methods and Findings in Experimental and Clinical Pharmacology</i> , 1997 , 19 Suppl A, 59-62		
14	The carbohydrate N-acetylglucosamine is involved in the guidance of neurites from chick ciliary ganglion neurons through the extracellular matrix of rat skeletal muscle fiber. <i>Neuroscience Letters</i> , 1996 , 207, 81-4	3.3	5
13	Nerve terminal sprouting in botulinum type-A treated mouse levator auris longus muscle. <i>Neuromuscular Disorders</i> , 1996 , 6, 177-85	2.9	64
12	S-laminin and N-acetylgalactosamine located at the synaptic basal lamina of skeletal muscle are involved in synaptic recognition by growing neurites. <i>Journal of Neurocytology</i> , 1995 , 24, 903-15		6
11	Skeletal muscle-derived trophic factors prevent motoneurons from entering an active cell death program in vitro. <i>Journal of Neuroscience</i> , 1994 , 14, 2674-86	6.6	52
10	Sprouting of mammalian motor nerve terminals induced by in vivo injection of botulinum type-D toxin and the functional recovery of paralysed neuromuscular junctions. <i>Neuroscience Letters</i> , 1993 , 153, 61-4	3.3	40
9	Effects of stonefish (<i>Synanceia trachynis</i>) venom on murine and frog neuromuscular junctions. <i>Toxicon</i> , 1993 , 31, 307-17	2.8	37
8	Tetrodotoxin-sensitive ciguatoxin effects on quantal release, synaptic vesicle depletion, and calcium mobilization. <i>Annals of the New York Academy of Sciences</i> , 1991 , 635, 485-8	6.5	13

7	Terminal sprouting in mouse neuromuscular junctions poisoned with botulinum type A toxin: morphological and electrophysiological features. <i>Neuroscience</i> , 1990 , 37, 799-808	3.9	115
6	Ciguatoxin enhances quantal transmitter release from frog motor nerve terminals. <i>British Journal of Pharmacology</i> , 1990 , 99, 695-700	8.6	64
5	Presynaptic actions of botulinal neurotoxins at vertebrate neuromuscular junctions. <i>Journal De Physiologie</i> , 1990 , 84, 152-66		18
4	Absence of histochemical immunoreactivity to calcitonin gene-related peptide (CGRP) in spinal cord motoneurons from (+)-tubocurarine-treated chick embryos. <i>Neuroscience Letters</i> , 1989 , 105, 1-6	3.3	16
3	Synaptic localization of a 66-kDa soluble protein from skeletal muscle: evidence for its developmental and neural regulation. <i>Experimental Neurology</i> , 1989 , 105, 211-8	5.7	
2	Phylogenetic polymorphism on lectin binding to junctional and non-junctional basal lamina at the vertebrate neuromuscular junction. <i>Histochemistry</i> , 1987 , 87, 301-7		11
1	Receptors to agglutinin from <i>Dolichus biflorus</i> (DBA) at the synaptic basal lamina of rat neuromuscular junction. A histochemical study during development and denervation. <i>Cell and Tissue Research</i> , 1987 , 248, 111-7	4.2	14