

Sarah McFarlane

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2337464/publications.pdf>

Version: 2024-02-01

50
papers

1,333
citations

361413

20
h-index

361022

35
g-index

52
all docs

52
docs citations

52
times ranked

1340
citing authors

#	ARTICLE	IF	CITATIONS
1	FGF signaling and target recognition in the developing xenopus visual system. <i>Neuron</i> , 1995, 15, 1017-1028.	8.1	168
2	Inhibition of FGF Receptor Activity in Retinal Ganglion Cell Axons Causes Errors in Target Recognition. <i>Neuron</i> , 1996, 17, 245-254.	8.1	137
3	Metalloproteases. <i>Neuron</i> , 2003, 37, 559-562.	8.1	96
4	Fibroblast growth factor receptor signaling inXenopus retinal axon extension. <i>Journal of Neurobiology</i> , 1998, 37, 633-641.	3.6	65
5	Metalloproteases and Guidance of Retinal Axons in the Developing Visual System. <i>Journal of Neuroscience</i> , 2002, 22, 8091-8100.	3.6	63
6	Matrix metalloproteinases are required for retinal ganglion cell axon guidance at select decision points. <i>Development (Cambridge)</i> , 2005, 132, 3371-3379.	2.5	60
7	Dynamic Expression of Axon Guidance Cues Required for Optic Tract Development Is Controlled by Fibroblast Growth Factor Signaling. <i>Journal of Neuroscience</i> , 2010, 30, 685-693.	3.6	50
8	Targeting of Retinal Axons Requires the Metalloproteinase ADAM10. <i>Journal of Neuroscience</i> , 2007, 27, 8448-8456.	3.6	43
9	Zac1 functions through TGF β II to negatively regulate cell number in the developing retina. <i>Neural Development</i> , 2007, 2, 11.	2.4	41
10	Retinal pigment epithelium expansion around the neural retina occurs in two separate phases with distinct mechanisms. <i>Developmental Dynamics</i> , 2017, 246, 598-609.	1.8	38
11	TGF β ligands promote the initiation of retinal ganglion cell dendrites in vitro and in vivo. <i>Molecular and Cellular Neurosciences</i> , 2008, 37, 247-260.	2.2	36
12	Distinct roles for Robo2 in the regulation of axon and dendrite growth by retinal ganglion cells. <i>Mechanisms of Development</i> , 2010, 127, 36-48.	1.7	36
13	A Role for Voltage-Gated Potassium Channels in the Outgrowth of Retinal Axons in the Developing Visual System. <i>Journal of Neuroscience</i> , 2000, 20, 1020-1029.	3.6	34
14	Seeing the light to change colour: An evolutionary perspective on the role of melanopsin in neuroendocrine circuits regulating light-mediated skin pigmentation. <i>Pigment Cell and Melanoma Research</i> , 2018, 31, 354-373.	3.3	27
15	Expression of voltage-dependent potassium channels in the developing visual system ofXenopus laevis. <i>Journal of Comparative Neurology</i> , 2002, 452, 381-391.	1.6	24
16	LIMK1 acts downstream of BMP signaling in developing retinal ganglion cell axons but not dendrites. <i>Developmental Biology</i> , 2009, 330, 273-285.	2.0	24
17	Wiring the retinal circuits activated by light during early development. <i>Neural Development</i> , 2014, 9, 3.	2.4	23
18	Expression of multiple class three semaphorins in the retina and along the path of zebrafish retinal axons. <i>Developmental Dynamics</i> , 2007, 236, 2918-2924.	1.8	22

#	ARTICLE	IF	CITATIONS
19	Expression of Bmp ligands and receptors in the developing <i>Xenopus</i> retina. <i>International Journal of Developmental Biology</i> , 2007, 51, 161-165.	0.6	22
20	Sema6a and Plxna2 mediate spatially regulated repulsion within the developing eye to promote eye vesicle cohesion. <i>Development (Cambridge)</i> , 2014, 141, 2473-2482.	2.5	21
21	Melanopsin photoreception in the eye regulates light-induced skin colour changes through the production of \pm MSH in the pituitary gland. <i>Pigment Cell and Melanoma Research</i> , 2015, 28, 559-571.	3.3	21
22	<i>Pten</i> Regulates Retinal Amacrine Cell Number by Modulating Akt, Tgf β ² , and Erk Signaling. <i>Journal of Neuroscience</i> , 2016, 36, 9454-9471.	3.6	21
23	Identification and expression analysis of GPAT family genes during early development of <i>Xenopus laevis</i> . <i>Gene Expression Patterns</i> , 2012, 12, 219-227.	0.8	18
24	Neuropilin-1 biases dendrite polarization in the retina. <i>Development (Cambridge)</i> , 2013, 140, 2933-2941.	2.5	17
25	GABA and development of the <i>Xenopus</i> optic projection. <i>Journal of Neurobiology</i> , 2002, 51, 272-284.	3.6	16
26	Zac1 promotes a Müller glial cell fate and interferes with retinal ganglion cell differentiation in <i>Xenopus</i> retina. <i>Developmental Dynamics</i> , 2007, 236, 192-202.	1.8	14
27	The <i>Xenopus</i> retinal ganglion cell as a model neuron to study the establishment of neuronal connectivity. <i>Developmental Neurobiology</i> , 2012, 72, 520-536.	3.0	14
28	Pharmacological induction of skin pigmentation unveils the neuroendocrine circuit regulated by light. <i>Pigment Cell and Melanoma Research</i> , 2016, 29, 186-198.	3.3	14
29	EGCG stabilizes growth cone filopodia and impairs retinal ganglion cell axon guidance. <i>Developmental Dynamics</i> , 2016, 245, 667-677.	1.8	14
30	Restrictions on the Importation of Zebrafish into Canada Associated with Spring Viremia of Carp Virus. <i>Zebrafish</i> , 2016, 13, S-153-S-163.	1.1	13
31	Plasticity for colour adaptation in vertebrates explained by the evolution of the genes pomc, pmch and pmchl. <i>Pigment Cell and Melanoma Research</i> , 2019, 32, 510-527.	3.3	13
32	The regulation of skin pigmentation in response to environmental light by pineal Type II opsins and skin melanophore melatonin receptors. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 212, 112024.	3.8	13
33	Identification of target genes downstream of semaphorin6A/PlexinA2 signaling in zebrafish. <i>Developmental Dynamics</i> , 2017, 246, 539-549.	1.8	12
34	Two Heparanase Splicing Variants with Distinct Properties Are Necessary in Early <i>Xenopus</i> Development. <i>Journal of Biological Chemistry</i> , 2008, 283, 16004-16016.	3.4	11
35	Interaction and developmental activation of two neuroendocrine systems that regulate light-mediated skin pigmentation. <i>Pigment Cell and Melanoma Research</i> , 2017, 30, 413-423.	3.3	10
36	Two promoters with distinct activities in different tissues drive the expression of heparanase in <i>Xenopus</i> . <i>Developmental Dynamics</i> , 2011, 240, 2657-2672.	1.8	9

#	ARTICLE	IF	CITATIONS
37	Neuronal expression of fibroblast growth factor receptors in zebrafish. <i>Gene Expression Patterns</i> , 2013, 13, 354-361.	0.8	9
38	Melanin-concentrating hormone like and somatolactin. A teleost-specific hypothalamic-hypophyseal axis system linking physiological and morphological pigmentation. <i>Pigment Cell and Melanoma Research</i> , 2021, 34, 564-574.	3.3	9
39	Two light-activated neuroendocrine circuits arising in the eye trigger physiological and morphological pigmentation. <i>Pigment Cell and Melanoma Research</i> , 2016, 29, 688-701.	3.3	8
40	The Expression of Key Guidance Genes at a Forebrain Axon Turning Point Is Maintained by Distinct Fgfr Isoforms but a Common Downstream Signal Transduction Mechanism. <i>ENeuro</i> , 2019, 6, ENEURO.0086-19.2019.	1.9	8
41	Distinct type II opsins in the eye decode light properties for background adaptation and behavioural background preference. <i>Molecular Ecology</i> , 2021, 30, 6659-6676.	3.9	7
42	Fibroblast growth factor receptor 1 signaling transcriptionally regulates the axon guidance cue slit1. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 3649-3661.	5.4	6
43	Endothelial Semaphorin 3fb regulates Vegf pathway-mediated angiogenic sprouting. <i>PLoS Genetics</i> , 2021, 17, e1009769.	3.5	5
44	Extrinsic factors as multifunctional regulators of retinal ganglion cell morphogenesis. <i>Developmental Neurobiology</i> , 2011, 71, 1170-1185.	3.0	4
45	Polarity and morphogenesis of the eye epithelium requires the adhesion junction associated adaptor protein Traf4. <i>Cell Adhesion and Migration</i> , 2018, 12, 1-14.	2.7	4
46	Lhx2/9 and Etv1 Transcription Factors have Complementary roles in Regulating the Expression of Guidance Genes slit1 and sema3a. <i>Neuroscience</i> , 2020, 434, 66-82.	2.3	4
47	Semaphorin 3fa Controls Ocular Vascularization From the Embryo Through to the Adult. , 2021, 62, 21.		4
48	Retinal Pigment Epithelium and Neural Retinal Progenitors Interact via Semaphorin 6D to Facilitate Optic Cup Morphogenesis. <i>ENeuro</i> , 2021, 8, ENEURO.0053-21.2021.	1.9	3
49	Rho kinase is required to prevent retinal axons from entering the contralateral optic nerve. <i>Molecular and Cellular Neurosciences</i> , 2015, 69, 30-40.	2.2	1
50	Type II Opsins in the Eye, the Pineal Complex and the Skin of <i>Xenopus laevis</i> : Using Changes in Skin Pigmentation as a Readout of Visual and Circadian Activity. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 784478.	1.7	1