Zachary Campbell

List of Publications by Year in Descending Order

41 papers	1,004 citations	18 h-index	31 g-index
50 ext. papers	1,346 ext. citations	8.3 avg, IF	4.56 L-index

#	Paper	IF	Citations
41	Functionally distinct roles for eEF2K in the control of ribosome availability and p-body abundance. *Nature Communications*, **2021**, 12, 6789	17.4	1
40	Intercellular Arc Signaling Regulates Vasodilation. *Journal of Neuroscience*, **2021**, 41, 7712-7726	6.6	2
39	A Highly Selective MNK Inhibitor Rescues Deficits Associated with Fragile X Syndrome in Mice. *Neurotherapeutics*, **2021**, 18, 624-639	6.4	2
38	Stimuli-responsive engineered living materials. *Soft Matter*, **2021**, 17, 785-809	3.6	22
37	A peptide encoded within a 5Vuntranslated region promotes pain sensitization in mice. *Pain*, **2021**, 162, 1864-1875	8	2
36	A role for translational regulation by S6 kinase and a downstream target in inflammatory pain. *British Journal of Pharmacology*, **2021**, 178, 4675-4690	8.6	0
35	Conserved Expression of Nav1.7 and Nav1.8 Contribute to the Spontaneous and Thermally Evoked Excitability in IL-6 and NGF-Sensitized Adult Dorsal Root Ganglion Neurons In Vitro. *Bioengineering*, **2020**, 7,	5.3	3
34	Type I Interferons Act Directly on Nociceptors to Produce Pain Sensitization: Implications for Viral Infection-Induced Pain. *Journal of Neuroscience*, **2020**, 40, 3517-3532	6.6	21
33	Shape-morphing living composites. *Science Advances*, **2020**, 6, eaax8582	14.3	23
32	Molecular entrapment by RNA: an emerging tool for disrupting protein-RNA interactions. *RNA Biology*, **2020**, 17, 417-424	4.8	0
31	Principles of mRNA control by human PUM proteins elucidated from multimodal experiments and integrative data analysis. *Rna*, **2020**, 26, 1680-1703	5.8	3
30	RNA control in pain: Blame it on the messenger. *Wiley Interdisciplinary Reviews RNA*, **2019**, 10, e1546	9.3	5
29	Differences between Dorsal Root and Trigeminal Ganglion Nociceptors in Mice Revealed by Translational Profiling. *Journal of Neuroscience*, **2019**, 39, 6829-6847	6.6	35
28	Engineering a conserved RNA regulatory protein repurposes its biological function. *ELife*, **2019**, 8,	8.9	11
27	A crystal structure of a collaborative RNA regulatory complex reveals mechanisms to refine target specificity. *ELife*, **2019**, 8,	8.9	6
26	Activation of the integrated stress response in nociceptors drives methylglyoxal-induced pain. *Pain*, **2019**, 160, 160-171	8	25
25	Emerging neurotechnology for antinoceptive mechanisms and therapeutics discovery. *Biosensors and Bioelectronics*, **2019**, 126, 679-689	11.8	6

24	Nociceptor Translational Profiling Reveals the Ragulator-Rag GTPase Complex as a Critical Generator of Neuropathic Pain. *Journal of Neuroscience*, **2019**, 39, 393-411	6.6	57
23	RNA-binding proteins as targets for pain therapeutics. *Neurobiology of Pain (Cambridge, Mass.)*, **2018**, 4, 2-7	4	6
22	Inhibition of Poly(A)-binding protein with a synthetic RNA mimic reduces pain sensitization in mice. *Nature Communications*, **2018**, 9, 10	17.4	78
21	Global pairwise RNA interaction landscapes reveal core features of protein recognition. *Nature Communications*, **2018**, 9, 2511	17.4	16
20	Adult mouse sensory neurons on microelectrode arrays exhibit increased spontaneous and stimulus-evoked activity in the presence of interleukin-6. *Journal of Neurophysiology*, **2018**, 120, 1374-1385	2.2	19
19	Architecture and dynamics of overlapped RNA regulatory networks. *Rna*, **2017**, 23, 1636-1647	5.8	17
18	Integrated analysis of RNA-binding protein complexes using in vitro selection and high-throughput sequencing and sequence specificity landscapes (SEQRS). *Methods*, **2017**, 118-119, 171-181	4.6	17
17	Drosophila Nanos acts as a molecular clamp that modulates the RNA-binding and repression activities of Pumilio. *ELife*, **2016**, 5,	8.9	47
16	RNA regulatory networks diversified through curvature of the PUF protein scaffold. *Nature Communications*, **2015**, 6, 8213	17.4	44
15	Probing RNA-protein networks: biochemistry meets genomics. *Trends in Biochemical Sciences*, **2015**, 40, 157-64	10.3	35
14	A protein-RNA specificity code enables targeted activation of an endogenous human transcript. *Nature Structural and Molecular Biology*, **2014**, 21, 732-8	17.6	62
13	Biochemical characterization of the Caenorhabditis elegans FBF.CPB-1 translational regulation complex identifies conserved protein interaction hotspots. *Journal of Molecular Biology*, **2013**, 425, 725-37	6.5	11
12	A protein.protein interaction platform involved in recruitment of GLD-3 to the FBF.fem-3 mRNA complex. *Journal of Molecular Biology*, **2013**, 425, 738-54	6.5	10
11	Cooperativity in RNA-protein interactions: global analysis of RNA binding specificity. *Cell Reports*, **2012**, 1, 570-81	10.6	86
10	A conserved PUF-Ago-eEF1A complex attenuates translation elongation. *Nature Structural and Molecular Biology*, **2012**, 19, 176-83	17.6	107
9	Identification of a conserved interface between PUF and CPEB proteins. *Journal of Biological Chemistry*, **2012**, 287, 18854-62	5.4	33
8	Patterns and plasticity in RNA-protein interactions enable recruitment of multiple proteins through a single site. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 6054-9	11.5	36
7	Analysis of the bacterial luciferase mobile loop by replica-exchange molecular dynamics. *Biophysical Journal*, **2010**, 99, 4012-9	2.9	18

6	Two lysine residues in the bacterial luciferase mobile loop stabilize reaction intermediates. *Journal of Biological Chemistry*, **2009**, 284, 32827-34	5.4	17
5	Fre Is the Major Flavin Reductase Supporting Bioluminescence from Vibrio harveyi Luciferase in Escherichia coli. *Journal of Biological Chemistry*, **2009**, 284, 8322-8	5.4	34
4	Crystal structure of the bacterial luciferase/flavin complex provides insight into the function of the beta subunit. *Biochemistry*, **2009**, 48, 6085-94	3.2	74
3	Intercellular Arc Signaling Regulates Vasodilation. *SSRN Electronic Journal*,	1	2
2	4D Printing of Engineered Living Materials. *Advanced Functional Materials*,2106843	15.6	9
1	Type I interferons act directly on nociceptors to produce pain sensitization: Implications for viral infection-induced pain		1