Nicole King

List of Publications by Year
in descending order

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50 papers	6,932 citations	218381 26 h-index	189595 50 g-index
57 all docs	57 docs citations	57 times ranked	7259 citing authors

#	Article	IF	Citations
1	Animals in a bacterial world, a new imperative for the life sciences. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3229-3236.	3.3	2,181
2	The genome of the choanoflagellate Monosiga brevicollis and the origin of metazoans. Nature, 2008, 451, 783-788.	13.7	1,006
3	The Unicellular Ancestry of Animal Development. Developmental Cell, 2004, 7, 313-325.	3.1	427
4	A Large and Consistent Phylogenomic Dataset Supports Sponges as the Sister Group to All Other Animals. Current Biology, 2017, 27, 958-967.	1.8	423
5	The Origin of Animal Multicellularity and Cell Differentiation. Developmental Cell, 2017, 43, 124-140.	3.1	294
6	A bacterial sulfonolipid triggers multicellular development in the closest living relatives of animals. ELife, 2012, 1, e00013.	2.8	224
7	Premetazoan genome evolution and the regulation of cell differentiation in the choanoflagellate Salpingoeca rosetta. Genome Biology, 2013, 14, R15.	13.9	219
8	Cell differentiation and morphogenesis in the colony-forming choanoflagellate Salpingoeca rosetta. Developmental Biology, 2011, 357, 73-82.	0.9	216
9	Gene family innovation, conservation and loss on the animal stem lineage. ELife, 2018, 7, .	2.8	149
10	Multicellular development in a choanoflagellate. Current Biology, 2010, 20, R875-R876.	1.8	132
11	Bacterial lipids activate, synergize, and inhibit a developmental switch in choanoflagellates. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7894-7899.	3.3	120
12	The Evolution of Silicon Transport in Eukaryotes. Molecular Biology and Evolution, 2016, 33, 3226-3248.	3.5	107
13	Mating in the Closest Living Relatives of Animals Is Induced by a Bacterial Chondroitinase. Cell, 2017, 170, 1175-1183.e11.	13.5	105
14	Embracing Uncertainty in Reconstructing Early Animal Evolution. Current Biology, 2017, 27, R1081-R1088.	1.8	101
15	Light-regulated collective contractility in a multicellular choanoflagellate. Science, 2019, 366, 326-334.	6.0	101
16	Genetic tool development in marine protists: emerging model organisms for experimental cell biology. Nature Methods, 2020, 17, 481-494.	9.0	97
17	The Future of Cell Biology: Emerging Model Organisms. Trends in Cell Biology, 2016, 26, 818-824.	3.6	93
18	Evidence for Sex and Recombination in the Choanoflagellate Salpingoeca rosetta. Current Biology, 2013, 23, 2176-2180.	1.8	92

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19	The rosetteless gene controls development in the choanoflagellate S. rosetta. ELife, 2014, 3, .	2.8	83
20	The architecture of cell differentiation in choanoflagellates and sponge choanocytes. PLoS Biology, 2019, 17, e3000226.	2.6	74
21	Prey Capture and Phagocytosis in the Choanoflagellate Salpingoeca rosetta. PLoS ONE, 2014, 9, e95577.	1.1	64
22	Transfection of choanoflagellates illuminates their cell biology and the ancestry of animal septins. Molecular Biology of the Cell, 2018, 29, 3026-3038.	0.9	56
23	Evolution of an ancient protein function involved in organized multicellularity in animals. ELife, 2016, 5, e10147.	2.8	51
24	Bacterial Influences on Animal Origins. Cold Spring Harbor Perspectives in Biology, 2014, 6, a016162-a016162.	2.3	50
25	Evolutionary Insights into Premetazoan Functions of the Neuronal Protein Homer. Molecular Biology and Evolution, 2014, 31, 2342-2355.	3.5	46
26	Synthesis of the Rosette-Inducing Factor RIF-1 and Analogs. Journal of the American Chemical Society, 2014, 136, 10210-10213.	6.6	38
27	Predicted glycosyltransferases promote development and prevent spurious cell clumping in the choanoflagellate S. rosetta. ELife, 2018, 7, .	2.8	36
28	Lessons from simple marine models on the bacterial regulation of eukaryotic development. Current Opinion in Microbiology, 2018, 43, 108-116.	2.3	33
29	A flagellate-to-amoeboid switch in the closest living relatives of animals. ELife, 2021, 10, .	2.8	32
30	Isolation and Synthesis of a Bacterially Produced Inhibitor of Rosette Development in Choanoflagellates. Journal of the American Chemical Society, 2016, 138, 4326-4329.	6.6	31
31	Biophysical principles of choanoflagellate self-organization. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1303-1311.	3.3	31
32	Genome editing enables reverse genetics of multicellular development in the choanoflagellate Salpingoeca rosetta. ELife, 2020, 9, .	2.8	29
33	Starting and Maintaining Monosiga brevicollis Cultures. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5148.	0.2	26
34	STING mediates immune responses in the closest living relatives of animals. ELife, 2021, 10, .	2.8	26
35	Identification and structure of an extracellular contractile injection system from the marine bacterium Algoriphagus machipongonensis. Nature Microbiology, 2022, 7, 397-410.	5.9	24
36	The Choanoflagellates: Heterotrophic Nanoflagellates and Sister Group of the Metazoa. Cold Spring Harbor Protocols, 2009, 2009, pdb.emo116-pdb.emo116.	0.2	23

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37	Finding patches in a heterogeneous aquatic environment: pHâ€taxis by the dispersal stage of choanoflagellates. Limnology and Oceanography Letters, 2017, 2, 37-46.	1.6	19
38	Synergistic Cues from Diverse Bacteria Enhance Multicellular Development in a Choanoflagellate. Applied and Environmental Microbiology, 2020, 86, .	1.4	12
39	Nitric oxide signaling controls collective contractions in a colonial choanoflagellate. Current Biology, 2022, 32, 2539-2547.e5.	1.8	8
40	Long-Term Frozen Storage of Choanoflagellate Cultures. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5149.	0.2	7
41	Separation of Choanoflagellate and Bacterial Genomic DNA. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5154.	0.2	6
42	Nature and Nurture in the Evolution of Cell Biology. Molecular Biology of the Cell, 2010, 21, 3801-3802.	0.9	6
43	The history of Salpingoeca rosetta as a model for reconstructing animal origins. Current Topics in Developmental Biology, 2022, 147, 73-91.	1.0	6
44	Isolation of Single Choanoflagellate Cells from Field Samples and Establishment of Clonal Cultures. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5147.	0.2	5
45	Preparation of High-Molecular-Weight Genomic DNA from Monosiga brevicollis and Other Choanoflagellates. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5153-pdb.prot5153.	0.2	4
46	Rapid Preparation of Genomic DNA from Monosiga brevicollis and Other Choanoflagellates. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5152.	0.2	4
47	Visualizing the Subcellular Localization of Actin, Â-Tubulin, and DNA in Monosiga brevicollis. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5150-pdb.prot5150.	0.2	3
48	Preparation of Total RNA from Monosiga brevicollis and Other Choanoflagellates. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5151-pdb.prot5151.	0.2	3
49	Gene regulation in transition. Nature, 2016, 534, 482-483.	13.7	3
50	Editorial overview: Environmental microbiology: Revisiting the physiology of microorganisms on the single cell scale. Current Opinion in Microbiology, 2015, 25, v-vi.	2.3	1