

# The Origin of Animal Multicellularity and Cell Different

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Embracing Uncertainty in Reconstructing Early Animal Evolution. <i>Current Biology</i> , 2017, 27, R1081-R1088.	1.8	101
2	Complex multicellularity in fungi: evolutionary convergence, single origin, or both?. <i>Biological Reviews</i> , 2018, 93, 1778-1794.	4.7	92
3	Long non-coding regulatory RNAs in sponges and insights into the origin of animal multicellularity. <i>RNA Biology</i> , 2018, 15, 1-7.	1.5	14
4	Lessons from simple marine models on the bacterial regulation of eukaryotic development. <i>Current Opinion in Microbiology</i> , 2018, 43, 108-116.	2.3	33
5	Src signaling in a low-complexity unicellular kinome. <i>Scientific Reports</i> , 2018, 8, 5362.	1.6	6
6	Novel Diversity of Deeply Branching Holomycota and Unicellular Holozoans Revealed by Metabarcoding in Middle Paraná River, Argentina. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	1.1	20
7	Transfection of choanoflagellates illuminates their cell biology and the ancestry of animal septins. <i>Molecular Biology of the Cell</i> , 2018, 29, 3026-3038.	0.9	56
8	Geometry, packing, and evolutionary paths to increased multicellular size. <i>Physical Review E</i> , 2018, 97, 050401.	0.8	14
9	What Makes an Animal? The Molecular Quest for the Origin of the Animal Kingdom. <i>Integrative and Comparative Biology</i> , 2018, 58, 654-665.	0.9	15
10	Gene family innovation, conservation and loss on the animal stem lineage. <i>ELife</i> , 2018, 7, .	2.8	149
11	We are not so special. <i>ELife</i> , 2018, 7, .	2.8	2
12	Inference of Developmental Gene Regulatory Networks Beyond Classical Model Systems: New Approaches in the Post-genomic Era. <i>Integrative and Comparative Biology</i> , 2018, 58, 640-653.	0.9	13
13	The Temporal and Environmental Context of Early Animal Evolution: Considering All the Ingredients of an "Explosion". <i>Integrative and Comparative Biology</i> , 2018, 58, 605-622.	0.9	81
14	Cell polarity: having and making sense of direction" on the evolutionary significance of the primary cilium/centrosome organ in Metazoa. <i>Open Biology</i> , 2018, 8, .	1.5	23
15	Multicellular Features of Phytoplankton. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	13
16	Matricellular Proteins: Functional Insights From Non-mammalian Animal Models. <i>Current Topics in Developmental Biology</i> , 2018, 130, 39-105.	1.0	24
17	Role of Chemical Mediators in Aquatic Interactions across the Prokaryote-Eukaryote Boundary. <i>Journal of Chemical Ecology</i> , 2018, 44, 1008-1021.	0.9	61
18	Dynamic cell-cell adhesion mediated by pericellular matrix interaction - a hypothesis. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	19

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19	A non-bilaterian perspective on the development and evolution of animal digestive systems. <i>Cell and Tissue Research</i> , 2019, 377, 321-339.	1.5	33
20	Early animal evolution: a morphologist's view. <i>Royal Society Open Science</i> , 2019, 6, 190638.	1.1	46
21	Emergence of diverse life cycles and life histories at the origin of multicellularity. <i>Nature Ecology and Evolution</i> , 2019, 3, 1197-1205.	3.4	49
22	Structure and Function of a Bacterial Gap Junction Analog. <i>Cell</i> , 2019, 178, 374-384.e15.	13.5	78
23	The Protistan Cellular and Genomic Roots of Animal Multicellularity. <i>Fascinating Life Sciences</i> , 2019, , 15-38.	0.5	0
24	Inherency of Form and Function in Animal Development and Evolution. <i>Frontiers in Physiology</i> , 2019, 10, 702.	1.3	32
25	Mineral-Chitin Composites in Molluscs. <i>Biologically-inspired Systems</i> , 2019, , 57-93.	0.4	3
26	Insights into the evolution of digestive systems from studies of <i>Trichoplax adhaerens</i> . <i>Cell and Tissue Research</i> , 2019, 377, 353-367.	1.5	20
27	Light-regulated collective contractility in a multicellular choanoflagellate. <i>Science</i> , 2019, 366, 326-334.	6.0	101
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29	Spatial Cell Disparity in the Colonial Choanoflagellate <i>Salpingoeca rosetta</i> . <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 231.	1.8	10
30	Modelling the early evolution of extracellular matrix from modern Ctenophores and Sponges. <i>Essays in Biochemistry</i> , 2019, 63, 389-405.	2.1	11
31	Somatic multicellularity as a satisficing solution to the prediction-error minimization problem. <i>Communicative and Integrative Biology</i> , 2019, 12, 119-132.	0.6	12
32	Comparative genomics reveals the origin of fungal hyphae and multicellularity. <i>Nature Communications</i> , 2019, 10, 4080.	5.8	80
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39	The Vav GEF Family: An Evolutionary and Functional Perspective. <i>Cells</i> , 2019, 8, 465.	1.8	48
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42	Extracellular Vesicles: Exosomes and Microvesicles, Integrators of Homeostasis. <i>Physiology</i> , 2019, 34, 169-177.	1.6	250
43	The architecture of cell differentiation in choanoflagellates and sponge choanocytes. <i>PLoS Biology</i> , 2019, 17, e3000226.	2.6	74
44	Evolutionary rate covariation analysis of E-cadherin identifies Raskol as a regulator of cell adhesion and actin dynamics in <i>Drosophila</i> . <i>PLoS Genetics</i> , 2019, 15, e1007720.	1.5	30
45	The ventral epithelium of <i>Trichoplax adhaerens</i> deploys in distinct patterns cells that secrete digestive enzymes, mucus or diverse neuropeptides. <i>Biology Open</i> , 2019, 8, .	0.6	29
46	Adhesions Assemble!â€”Autoinhibition as a Major Regulatory Mechanism of Integrin-Mediated Adhesion. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 144.	1.6	31
47	Evolution of Hormonal Mechanisms. , 2019, , 16-22.		0
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49	The significance of sponges for comparative studies of developmental evolution. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , 2020, 9, e359.	5.9	8
50	<i>Mesostigma viride</i> Genome and Transcriptome Provide Insights into the Origin and Evolution of Streptophyta. <i>Advanced Science</i> , 2020, 7, 1901850.	5.6	40
51	Morphological Coordination: A Common Ancestral Function Unifying Neural and Non-Neural Signaling. <i>Physiology</i> , 2020, 35, 16-30.	1.6	58
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53	The evolution of cell differentiation in animals: biomolecular condensates as amplification hubs of inherent cell functions. , 2020, , 253-279.		0
54	Fungi took a unique evolutionary route to multicellularity: Seven key challenges for fungal multicellular life. <i>Fungal Biology Reviews</i> , 2020, 34, 151-169.	1.9	25
55	Temperature sensitivities of metazoan and pre-metazoan Src kinases. <i>Biochemistry and Biophysics Reports</i> , 2020, 23, 100775.	0.7	1

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56	Regeneration in sponge <i>Sycon ciliatum</i> partly mimics postlarval development. <i>Development</i> (Cambridge), 2020, 147, .	1.2	22
57	Ecological Advantages and Evolutionary Limitations of Aggregative Multicellular Development. <i>Current Biology</i> , 2020, 30, 4155-4164.e6.	1.8	31
58	Structural characterization and computational analysis of PDZ domains in <i>Monosiga brevicollis</i> . <i>Protein Science</i> , 2020, 29, 2226-2244.	3.1	4
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60	The Evolutionary Assembly of Neuronal Machinery. <i>Current Biology</i> , 2020, 30, R603-R616.	1.8	46
61	Rapid Multilevel Compartmentalization of Stable All-Aqueous Blastosomes by Interfacial Aqueous-Phase Separation. <i>ACS Nano</i> , 2020, 14, 11215-11224.	7.3	20
62	Tracing the Origins of the Pituitary Adenylate-Cyclase Activating Polypeptide (PACAP). <i>Frontiers in Neuroscience</i> , 2020, 14, 366.	1.4	15
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66	Slow lane to collectivity. <i>Nature Ecology and Evolution</i> , 2020, 4, 292-293.	3.4	0
67	Biophysical principles of choanoflagellate self-organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1303-1311.	3.3	31
68	Insights into the origin of metazoan multicellularity from predatory unicellular relatives of animals. <i>BMC Biology</i> , 2020, 18, 39.	1.7	36
69	Cytotoxic effects of polystyrene nanoplastics with different surface functionalization on human HepG2 cells. <i>Science of the Total Environment</i> , 2020, 723, 138180.	3.9	113
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71	Metabolic Heterogeneity and Cross-Feeding in Bacterial Multicellular Systems. <i>Trends in Microbiology</i> , 2020, 28, 732-743.	3.5	65
72	Temperature-sensitive pathways may be involved in duck embryonic developmental recovery from blastoderm dormancy during hatching. <i>British Poultry Science</i> , 2020, 61, 366-374.	0.8	0
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75	Do microenvironmental changes disrupt multicellular organisation with ageing, enacting and favouring the cancer cell phenotype?. BioEssays, 2021, 43, e2000126.	1.2	8
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77	Cancer and the breakdown of multicellularity: What <i>Dictyostelium discoideum</i> , a social amoeba, can teach us. BioEssays, 2021, 43, e2000156.	1.2	9
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82	The Trinity of cGAS, TLR9, and ALRs Guardians of the Cellular Galaxy Against Host-Derived Self-DNA. Frontiers in Immunology, 2020, 11, 624597.	2.2	40
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93	The Consequences of Budding versus Binary Fission on Adaptation and Aging in Primitive Multicellularity. Genes, 2021, 12, 661.	1.0	7
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96	Oxygen suppression of macroscopic multicellularity. Nature Communications, 2021, 12, 2838.	5.8	30

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97	Role of epigenetics in unicellular to multicellular transition in Dictyostelium. <i>Genome Biology</i> , 2021, 22, 134.	3.8	12
99	Cancer progression as a sequence of atavistic reversions. <i>BioEssays</i> , 2021, 43, e2000305.	1.2	37
100	Why have aggregative multicellular organisms stayed simple?. <i>Current Genetics</i> , 2021, 67, 871-876.	0.8	23
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104	The integrin-mediated adhesive complex in the ancestor of animals, fungi, and amoebae. <i>Current Biology</i> , 2021, 31, 3073-3085.e3.	1.8	6
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114	CRISPR-Cas Toxin Antitoxin Systems: Selfishness as a Constructive Evolutionary Force. <i>Trends in Microbiology</i> , 2021, 29, 869-870.	3.5	2
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118	A flagellate-to-amoeboid switch in the closest living relatives of animals. <i>ELife</i> , 2021, 10, .	2.8	32
119	A Look Back Over 20 Years of Evo-Devo Studies on Sponges: A Challenged View of Urmetazoa. , 2019, , 135-160.		4
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122	The evolution of multicellularity and cancer: views and paradigms. <i>Biochemical Society Transactions</i> , 2020, 48, 1505-1518.	1.6	22
123	The Order of Trait Emergence in the Evolution of Cyanobacterial Multicellularity. <i>Genome Biology and Evolution</i> , 2021, 13, .	1.1	26
131	A Unicellular Relative of Animals Generates an Epithelium-Like Cell Layer by Actomyosin-dependent Cellularization. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3
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150	Genomic innovation of ATD alleviates mistranslation associated with multicellularity in Animalia. <i>ELife</i> , 2020, 9, .	2.8	4
152	Paligenosis: Cellular Remodeling During Tissue Repair. <i>Annual Review of Physiology</i> , 2022, 84, 461-483.	5.6	20
153	Blastocoel morphogenesis: A biophysics perspective. <i>Seminars in Cell and Developmental Biology</i> , 2022, 130, 12-23.	2.3	4
154	Towards the Idea of Molecular Brains. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11868.	1.8	19
162	STING mediates immune responses in the closest living relatives of animals. <i>ELife</i> , 2021, 10, .	2.8	26



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163	Bacterial marginolactones trigger formation of algal gloeocapsoids, protective aggregates on the verge of multicellularity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	12
164	How geometry shapes division of labor. ELife, 2020, 9, .	2.8	1
166	What Do We Mean by Multicellularity? The Evolutionary Transitions Framework Provides Answers. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	18
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173	Evolution of a novel cell type in Dictyostelia required gene duplication of a <i>cuda</i> -like transcription factor. Current Biology, 2022, 32, 428-437.e4.	1.8	5
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178	The cellular slime mold <i>Fonticula alba</i> forms a dynamic, multicellular collective while feeding on bacteria. Current Biology, 2022, 32, 1961-1973.e4.	1.8	11
179	Origin and Evolution of the Multifaceted Adherens Junction Component <i>Plekha7</i> . Frontiers in Cell and Developmental Biology, 2022, 10, 856975.	1.8	5
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210	The Biological Effects of Polystyrene Nanoplastics on Human Peripheral Blood Lymphocytes. <i>Nanomaterials</i> , 2022, 12, 1632.	1.9	18
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213	Varied solutions to multicellularity: The biophysical and evolutionary consequences of diverse intercellular bonds. <i>Biophysics Reviews</i> , 2022, 3, .	1.0	11
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225	The origin and early evolution of complex organisms. <i>Chinese Science Bulletin</i> , 2023, 68, 169-187.	0.4	1

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226	Gradual specialization of phagocytic ameboid cells may have impaired regenerative capacities in metazoan lineages. <i>Developmental Dynamics</i> , 2023, 252, 343-362.	0.8	3
227	The premetazoan ancestry of the synaptic toolkit and appearance of first neurons. <i>Essays in Biochemistry</i> , 2022, 66, 781-795.	2.1	8
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