Gabriel V Markov

List of Publications by Year
in descending order

45 papers	3,442 citations	304743 22 h-index	254184 43 g-index
50 all docs	50 docs citations	50 times ranked	4449 citing authors

#	Article	IF	Citations
1	Genome sequence of the metazoan plant-parasitic nematode Meloidogyne incognita. Nature Biotechnology, 2008, 26, 909-915.	17.5	1,012
2	The Ectocarpus genome and the independent evolution of multicellularity in brown algae. Nature, 2010, 465, 617-621.	27.8	774
3	Genome structure and metabolic features in the red seaweed <i>Chondrus crispus</i> shed light on evolution of the Archaeplastida. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5247-5252.	7.1	307
4	Independent elaboration of steroid hormone signaling pathways in metazoans. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 11913-11918.	7.1	163
5	Origin and evolution of the ligand-binding ability of nuclear receptors. Molecular and Cellular Endocrinology, 2011, 334, 21-30.	3.2	90
6	Traceability, reproducibility and wiki-exploration for â€œÃ-la-carteâ€•reconstructions of genome-scale metabolic models. PLoS Computational Biology, 2018, 14, e1006146.	3.2	89
7	Plastid genomes of two brown algae, Ectocarpus siliculosus and Fucus vesiculosus: further insights on the evolution of red-algal derived plastids. BMC Evolutionary Biology, 2009, 9, 253.	3.2	77
8	The amphioxus genome enlightens the evolution of the thyroid hormone signaling pathway. Development Genes and Evolution, 2008, 218, 667-680.	0.9	59
9	The Nuclear Hormone Receptor NHR-40 Acts Downstream of the Sulfatase EUD-1 as Part of a Developmental Plasticity Switch in Pristionchus. Current Biology, 2016, 26, 2174-2179.	3.9	56
10	Origin of an ancient hormone/receptor couple revealed by resurrection of an ancestral estrogen. Science Advances, 2017, 3, e1601778.	10.3	49
11	Ventx Factors Function as Nanog-Like Guardians of Developmental Potential in Xenopus. PLoS ONE, 2012, 7, e36855.	2.5	48
12	Natural Variation in Dauer Pheromone Production and Sensing Supports Intraspecific Competition in Nematodes. Current Biology, 2014, 24, 1536-1541.	3.9	47
13	The evolution of the ligand/receptor couple: A long road from comparative endocrinology to comparative genomics. Molecular and Cellular Endocrinology, 2008, 293, 5-16.	3.2	43
14	Genome and metabolic network of Ã¢â‚¬Å“Candidatus Phaeomarinobacter ectocarpiÃ¢â‚¬Â•Ec32, a new candidate genus of Alphaproteobacteria frequently associated with brown algae. Frontiers in Genetics, 2014, 5, 241.	2.3	43
15	Chondrus crispus â€“ A Present and Historical Model Organism for Red Seaweeds. Advances in Botanical Research, 2014, 71, 53-89.	1.1	37
16	Ancient gene duplications have shaped developmental stage-specific expression in Pristionchus pacificus. BMC Evolutionary Biology, 2015, 15, 185.	3.2	36
17	Draft Genome of the Scarab Beetle<i>Oryctes borbonicus</i>on La RÃ©union Island. Genome Biology and Evolution, 2016, 8, 2093-2105.	2.5	35
18	Functional Conservation and Divergence ofdaf-22Paralogs inPristionchus pacificusDauer Development. Molecular Biology and Evolution, 2016, 33, 2506-2514.	8.9	34

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19	Evolution of Nuclear Receptors and Ligand Signaling. Current Topics in Developmental Biology, 2017, 125, 1-38.	2.2	34
20	Linking Genomic and Metabolomic Natural Variation Uncovers Nematode Pheromone Biosynthesis. Cell Chemical Biology, 2018, 25, 787-796.e12.	5.2	31
21	Biological rhythms in the deep-sea hydrothermal mussel Bathymodiolus azoricus. Nature Communications, 2020, 11, 3454.	12.8	30
22	The Role of DAF-21/Hsp90 in Mouth-Form Plasticity in Pristionchus pacificus. Molecular Biology and Evolution, 2017, 34, 1644-1653.	8.9	28
23	The genome of Ectocarpus subulatus â€“ A highly stress-tolerant brown alga. Marine Genomics, 2020, 52, 100740.	1.1	26
24	Metabolic Complementarity Between a Brown Alga and Associated Cultivable Bacteria Provide Indications of Beneficial Interactions. Frontiers in Marine Science, 2020, 7, .	2.5	25
25	Evolution of Nuclear Retinoic Acid Receptor Alpha (RARÂ) Phosphorylation Sites. Serine Gain Provides Fine-Tuned Regulation. Molecular Biology and Evolution, 2011, 28, 2125-2137.	8.9	23
26	The Same or Not the Same: Lineage-Specific Gene Expansions and Homology Relationships in Multigene Families in Nematodes. Journal of Molecular Evolution, 2015, 80, 18-36.	1.8	23
27	On the Origin and Evolutionary History of NANOG. PLoS ONE, 2014, 9, e85104.	2.5	21
28	qPCR-based relative quantification of the brown algal endophyte Laminarionema elsbetiae in Saccharina latissima: variation and dynamics of hostâ€"endophyte interactions. Journal of Applied Phycology, 2018, 30, 2901-2911.	2.8	19
29	Genomeâ€"Scale Metabolic Networks Shed Light on the Carotenoid Biosynthesis Pathway in the Brown Algae Saccharina japonica and Cladosiphon okamuranus. Antioxidants, 2019, 8, 564.	5.1	19
30	The Ectocarpus Genome and Brown Algal Genomics. Advances in Botanical Research, 2012, 64, 141-184.	1.1	18
31	Diversity and evolution of cytochromes P450 in stramenopiles. Planta, 2019, 249, 647-661.	3.2	18
32	NR3E receptors in cnidarians: A new family of steroid receptor relatives extends the possible mechanisms for ligand binding. Journal of Steroid Biochemistry and Molecular Biology, 2018, 184, 11-19.	2.5	17
33	The â€œstreet light syndromeâ€, or how protein taxonomy can bias experimental manipulations. BioEssays, 2008, 30, 349-357.	2.5	16
34	Herbivore-induced chemical and molecular responses of the kelps Laminaria digitata and Lessonia spicata. PLoS ONE, 2017, 12, e0173315.	2.5	16
35	Inferring Biochemical Reactions and Metabolite Structures to Understand Metabolic Pathway Drift. IScience, 2020, 23, 100849.	4.1	15
36	In Silico Survey of the Mitochondrial Protein Uptake and Maturation Systems in the Brown Alga Ectocarpus siliculosus. PLoS ONE, 2011, 6, e19540.	2.5	10

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37	Hormonally active phytochemicals from macroalgae: A largely untapped source of ligands to deorphanize nuclear receptors in emerging marine animal models. General and Comparative Endocrinology, 2018, 265, 41-45.	1.8	8
38	A structural signature motif enlightens the origin and diversification of nuclear receptors. PLoS Genetics, 2021, 17, e1009492.	3.5	8
39	Small molecules as products of evolution. Current Biology, 2022, 32, R100-R105.	3.9	6
40	The Evolution of Novelty in Conserved Gene Families. International Journal of Evolutionary Biology, 2012, 2012, 1-8.	1.0	5
41	Semi-Quantitative Targeted Gas Chromatography-Mass Spectrometry Profiling Supports a Late Side-Chain Reductase Cycloartenol-to-Cholesterol Biosynthesis Pathway in Brown Algae. Frontiers in Plant Science, 2021, 12, 648426.	3.6	5
42	Different Early Responses of Laminariales to an Endophytic Infection Provide Insights About Kelp Host Specificity. Frontiers in Marine Science, 2021, 8, .	2.5	5
43	What does Evolution Teach us about Nuclear Receptors?. , 2010, , 15-29.		4
44	Independent Evolution of the MYB Family in Brown Algae. Frontiers in Genetics, 2021, 12, 811993.	2.3	3
45	Evolution of Hormonal Mechanisms. , 2019, , 16-22.		0