

Gabriel Piedrafita

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

863
citations

687363

13
h-index

888059

17
g-index

23
all docs

23
docs citations

23
times ranked

1248
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial competition shapes the dynamic mutational landscape of normal esophageal epithelium. <i>Nature Genetics</i> , 2020, 52, 604-614.	21.4	107
2	The widespread role of non-enzymatic reactions in cellular metabolism. <i>Current Opinion in Biotechnology</i> , 2015, 34, 153-161.	6.6	105
3	Mutant clones in normal epithelium outcompete and eliminate emerging tumours. <i>Nature</i> , 2021, 598, 510-514.	27.8	95
4	Outcompeting p53-Mutant Cells in the Normal Esophagus by Redox Manipulation. <i>Cell Stem Cell</i> , 2019, 25, 329-341.e6.	11.1	88
5	Epidermal Tissue Adapts to Restrain Progenitors Carrying Clonal p53 Mutations. <i>Cell Stem Cell</i> , 2018, 23, 687-699.e8.	11.1	72
6	The Impact of Non-Enzymatic Reactions and Enzyme Promiscuity on Cellular Metabolism during (Oxidative) Stress Conditions. <i>Biomolecules</i> , 2015, 5, 2101-2122.	4.0	69
7	A single-progenitor model as the unifying paradigm of epidermal and esophageal epithelial maintenance in mice. <i>Nature Communications</i> , 2020, 11, 1429.	12.8	57
8	A Simple Self-Maintaining Metabolic System: Robustness, Autocatalysis, Bistability. <i>PLoS Computational Biology</i> , 2010, 6, e1000872.	3.2	52
9	Nonenzymatic gluconeogenesis-like formation of fructose 1,6-bisphosphate in ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7403-7407.	7.1	48
10	Allele-Specific Gene Expression Is Widespread Across the Genome and Biological Processes. <i>PLoS ONE</i> , 2009, 4, e4150.	2.5	44
11	Permeability-driven selection in a semi-empirical protocell model: the roots of prebiotic systems evolution. <i>Scientific Reports</i> , 2017, 7, 3141.	3.3	30
12	Simulating a Model of Metabolic Closure. <i>Biological Theory</i> , 2013, 8, 383-390.	1.5	24
13	Viability Conditions for a Compartmentalized Protometabolic System: A Semi-Empirical Approach. <i>PLoS ONE</i> , 2012, 7, e39480.	2.5	23
14	Cysteine and iron accelerate the formation of ribose-5-phosphate, providing insights into the evolutionary origins of the metabolic network structure. <i>PLoS Biology</i> , 2021, 19, e3001468.	5.6	14
15	Size matters: Influence of stochasticity on the self-maintenance of a simple model of metabolic closure. <i>Journal of Theoretical Biology</i> , 2012, 300, 143-151.	1.7	12
16	Identifying ultrasensitive HGF dose-response functions in a 3D mammalian system for synthetic morphogenesis. <i>Scientific Reports</i> , 2016, 6, 39178.	3.3	7
17	Stochastic Simulations of Mixed-Lipid Compartments: From Self-Assembling Vesicles to Self-Producing Protocells. <i>Advances in Experimental Medicine and Biology</i> , 2011, 696, 689-696.	1.6	4
18	Mutations in Non-Tumoral Human Urothelium: Disease Prelude or Epilogue?. <i>Bladder Cancer</i> , 2020, 6, 249-252.	0.4	0

#	ARTICLE	IF	CITATIONS
19	On the Transition from Prebiotic to Proto-biological Membranes: From "Self-assembly" to "Self-production". Lecture Notes in Computer Science, 2011, , 256-264.	1.3	0