# Gabriel Piedrafita

List of Publications by Year
in descending order



| 19 | 863 | 687363 13 | 888059 17 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 23 | 23 | 23 | 1248 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mutant clones in normal epithelium outcompete and eliminate emerging tumours. Nature, 2021, 598, 510-514. | 27.8 | 95 |
| 2 | Cysteine and iron accelerate the formation of ribose-5-phosphate, providing insights into the evolutionary origins of the metabolic network structure. PLoS Biology, 2021, 19, e3001468. | 5.6 | 14 |
| 3 | Mutations in Non-Tumoral Human Urothelium: Disease Prelude or Epilogue?. Bladder Cancer, 2020, 6, 249-252. | 0.4 | 0 |
| 4 | Spatial competition shapes the dynamic mutational landscape of normal esophageal epithelium. Nature Genetics, 2020, 52, 604-614. | 21.4 | 107 |
| 5 | A single-progenitor model as the unifying paradigm of epidermal and esophageal epithelial maintenance in mice. Nature Communications, 2020, 11, 1429. | 12.8 | 57 |
| 6 | Outcompeting p53-Mutant Cells in the Normal Esophagus by Redox Manipulation. Cell Stem Cell, 2019, 25, 329-341.e6. | 11.1 | 88 |
| 7 | Epidermal Tissue Adapts to Restrain Progenitors Carrying Clonal p53 Mutations. Cell Stem Cell, 2018, 23, 687-699.e8. | 11.1 | 72 |
| 8 | Permeability-driven selection in a semi-empirical protocell model: the roots of prebiotic systems evolution. Scientific Reports, 2017, 7, 3141. | 3.3 | 30 |
| 9 | Nonenzymatic gluconeogenesis-like formation of fructose 1,6-bisphosphate in ice. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7403-7407. | 7.1 | 48 |
| 10 | Identifying ultrasensitive HGF dose-response functions in a 3D mammalian system for synthetic morphogenesis. Scientific Reports, 2016, 6, 39178. | 3.3 | 7 |
| 11 | The Impact of Non-Enzymatic Reactions and Enzyme Promiscuity on Cellular Metabolism during (Oxidative) Stress Conditions. Biomolecules, 2015, 5, 2101-2122. | 4.0 | 69 |
| 12 | The widespread role of non-enzymatic reactions in cellular metabolism. Current Opinion in Biotechnology, 2015, 34, 153-161. | 6.6 | 105 |
| 13 | Simulating a Model of Metabolic Closure. Biological Theory, 2013, 8, 383-390. | 1.5 | 24 |
| 14 | Viability Conditions for a Compartmentalized Protometabolic System: A Semi-Empirical Approach. PLoS ONE, 2012, 7, e39480. | 2.5 | 23 |
| 15 | Size matters: Influence of stochasticity on the self-maintenance of a simple model of metabolic closure. Journal of Theoretical Biology, 2012, 300, 143-151. | 1.7 | 12 |
| 16 | Stochastic Simulations of Mixed-Lipid Compartments: From Self-Assembling Vesicles to Self-Producing Protocells. Advances in Experimental Medicine and Biology, 2011, 696, 689-696. | 1.6 | 4 |
| 17 | On the Transition from Prebiotic to Proto-biological Membranes: From â€˜Self-assemblyâ€™ to â€˜Self-productionâ€™. Lecture Notes in Computer Science, 2011, , 256-264. | 1.3 | 0 |
| 18 | A Simple Self-Maintaining Metabolic System: Robustness, Autocatalysis, Bistability. PLoS Computational Biology, 2010, 6, e1000872. | 3.2 | 52 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Allele-Specific Gene Expression Is Widespread Across the Genome and Biological Processes. PLoS ONE, 2009, 4, e4150. | 2.5 | 44 |