

# Philip J Murray

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7339861/publications.pdf>

Version: 2024-02-01

21  
papers

1,031  
citations

567281

15  
h-index

794594

19  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1472  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Auto-Regulation of Transcription and Translation: Oscillations, Excitability and Intermittency. <i>Biomolecules</i> , 2021, 11, 1566.   | 4.0  | 2         |
| 2  | Cell cycle regulation of oscillations yields coupling of growth and form in a computational model of the presomitic mesoderm. <i>Journal of Theoretical Biology</i> , 2019, 481, 75-83. | 1.7  | 1         |
| 3  | <scp>CDK</scp> 1 and <scp>CDK</scp> 2 regulate <scp>NICD</scp> 1 turnover and the periodicity of the segmentation clock. <i>EMBO Reports</i> , 2019, 20, e46436.                        | 4.5  | 32        |
| 4  | Temporal Ordering of Dynamic Expression Data from Detailed Spatial Expression Maps. <i>Journal of Visualized Experiments</i> , 2017, , .  | 0.3  | 0         |
| 5  | HIV-1 capsid uncoating initiates after the first strand transfer of reverse transcription. <i>Retrovirology</i> , 2016, 13, 58.   | 2.0  | 69        |
| 6  | DNA double-strand break repair: a theoretical framework and its application. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20150679.  | 3.4  | 11        |
| 7  | Organ-Level Quorum Sensing Directs Regeneration in Hair Stem Cell Populations. <i>Cell</i> , 2015, 161, 277-290.  | 28.9 | 195       |
| 8  | Multiscale modelling of intestinal crypt organization and carcinogenesis. <i>Mathematical Models and Methods in Applied Sciences</i> , 2015, 25, 2563-2585.                             | 3.3  | 21        |
| 9  | A balance of positive and negative regulators determines the pace of the segmentation clock. <i>ELife</i> , 2015, 4, e05842.  | 6.0  | 27        |
| 10 | Spatiotemporal oscillations of Notch1, Dll1 and NICD are coordinated across the mouse PSM. <i>Development (Cambridge)</i> , 2014, 141, 4806-4816.                                       | 2.5  | 50        |
| 11 | Regenerative Hair Waves in Aging Mice and Extra-Follicular Modulators Follistatin, Dkk1, and Sfrp4. <i>Journal of Investigative Dermatology</i> , 2014, 134, 2086-2096.                 | 0.7  | 80        |
| 12 | Modelling Delta-Notch perturbations during zebrafish somitogenesis. <i>Developmental Biology</i> , 2013, 373, 407-421.  | 2.0  | 14        |
| 13 | Modelling Oscillator Synchronisation During Vertebrate Axis Segmentation. <i>Springer Proceedings in Mathematics</i> , 2013, , 95-105.  | 0.5  | 2         |
| 14 | Modelling Hair Follicle Growth Dynamics as an Excitable Medium. <i>PLoS Computational Biology</i> , 2012, 8, e1002804.  | 3.2  | 22        |
| 15 | Classifying general nonlinear force laws in cell-based models via the continuum limit. <i>Physical Review E</i> , 2012, 85, 021921.   | 2.1  | 33        |
| 16 | Understanding hair follicle cycling: a systems approach. <i>Current Opinion in Genetics and Development</i> , 2012, 22, 607-612.  | 3.3  | 30        |
| 17 | The clock and wavefront model revisited. <i>Journal of Theoretical Biology</i> , 2011, 283, 227-238.  | 1.7  | 50        |
| 18 | Comparing a discrete and continuum model of the intestinal crypt. <i>Physical Biology</i> , 2011, 8, 026011.  | 1.8  | 38        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Modelling Spatially Regulated $\beta^2$ -Catenin Dynamics and Invasion in Intestinal Crypts. Biophysical Journal, 2010, 99, 716-725.    | 0.5 | 66        |
| 20 | From a discrete to a continuum model of cell dynamics in one dimension. Physical Review E, 2009, 80, 031912.                            | 2.1 | 78        |
| 21 | Chaste: A test-driven approach to software development for biological modelling. Computer Physics Communications, 2009, 180, 2452-2471. | 7.5 | 207       |