

Marcus John Tindall

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,057
citations

471509

17
h-index

434195

31
g-index

43
all docs

43
docs citations

43
times ranked

1359
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Overview of Mathematical Approaches Used to Model Bacterial Chemotaxis II: Bacterial Populations. <i>Bulletin of Mathematical Biology</i> , 2008, 70, 1570-1607. | 1.9 | 211 |
| 2 | Methods of Model Reduction for Large-Scale Biological Systems: A Survey of Current Methods and Trends. <i>Bulletin of Mathematical Biology</i> , 2017, 79, 1449-1486. | 1.9 | 97 |
| 3 | Overview of Mathematical Approaches Used to Model Bacterial Chemotaxis I: The Single Cell. <i>Bulletin of Mathematical Biology</i> , 2008, 70, 1525-1569. | 1.9 | 96 |
| 4 | From a discrete to a continuum model of cell dynamics in one dimension. <i>Physical Review E</i> , 2009, 80, 031912. | 2.1 | 78 |
| 5 | Comparing a discrete and continuum model of the intestinal crypt. <i>Physical Biology</i> , 2011, 8, 026011. | 1.8 | 38 |
| 6 | The Metabolites of the Dietary Flavonoid Quercetin Possess Potent Antithrombotic Activity, and Interact with Aspirin to Enhance Antiplatelet Effects. <i>TH Open</i> , 2019, 03, e244-e258. | 1.4 | 37 |
| 7 | Best Practices to Maximize the Use and Reuse of Quantitative and Systems Pharmacology Models: Recommendations From the United Kingdom Quantitative and Systems Pharmacology Network. <i>CPT: Pharmacometrics and Systems Pharmacology</i> , 2019, 8, 259-272. | 2.5 | 37 |
| 8 | Classifying general nonlinear force laws in cell-based models via the continuum limit. <i>Physical Review E</i> , 2012, 85, 021921. | 2.1 | 33 |
| 9 | Feedback regulation by Atf3 in the endothelin-1-responsive transcriptome of cardiomyocytes: Egr1 is a principal Atf3 target. <i>Biochemical Journal</i> , 2012, 444, 343-355. | 3.7 | 31 |
| 10 | Multi-scale, whole-system models of liver metabolic adaptation to fat and sugar in non-alcoholic fatty liver disease. <i>Npj Systems Biology and Applications</i> , 2018, 4, 33. | 3.0 | 30 |
| 11 | Modeling Chemotaxis Reveals the Role of Reversed Phosphotransfer and a Bi-Functional Kinase-Phosphatase. <i>PLoS Computational Biology</i> , 2010, 6, e1000896. | 3.2 | 29 |
| 12 | A mathematical model of the sterol regulatory element binding protein 2 cholesterol biosynthesis pathway. <i>Journal of Theoretical Biology</i> , 2014, 349, 150-162. | 1.7 | 26 |
| 13 | Modelling the Cell Cycle and Cell Movement in Multicellular Tumour Spheroids. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 1147-1165. | 1.9 | 24 |
| 14 | Regulation of Early Steps of GPVI Signal Transduction by Phosphatases: A Systems Biology Approach. <i>PLoS Computational Biology</i> , 2015, 11, e1004589. | 3.2 | 22 |
| 15 | Theoretical insights into bacterial chemotaxis. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2012, 4, 247-259. | 6.6 | 21 |
| 16 | Modelling the formation of necrotic regions in avascular tumours. <i>Mathematical Biosciences</i> , 2008, 211, 34-55. | 1.9 | 20 |
| 17 | A continuum receptor model of hepatic lipoprotein metabolism. <i>Journal of Theoretical Biology</i> , 2009, 257, 371-384. | 1.7 | 19 |
| 18 | A combined model reduction algorithm for controlled biochemical systems. <i>BMC Systems Biology</i> , 2017, 11, 17. | 3.0 | 18 |

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|----|---|-----|-----------|
| 19 | A mathematical model of the mevalonate cholesterol biosynthesis pathway. <i>Journal of Theoretical Biology</i> , 2018, 443, 157-176. | 1.7 | 18 |
| 20 | Physiologically-based pharmacokinetic and toxicokinetic models for estimating human exposure to five toxic elements through oral ingestion. <i>Environmental Toxicology and Pharmacology</i> , 2018, 57, 104-114. | 4.0 | 18 |
| 21 | Model reduction in mathematical pharmacology. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 2018, 45, 537-555. | 1.8 | 16 |
| 22 | Response kinetics in the complex chemotaxis signalling pathway of <i>Rhodobacter sphaeroides</i> . <i>Journal of the Royal Society Interface</i> , 2013, 10, 20121001. | 3.4 | 15 |
| 23 | An Integrated Mathematical Model of Cellular Cholesterol Biosynthesis and Lipoprotein Metabolism. <i>Processes</i> , 2018, 6, 134. | 2.8 | 12 |
| 24 | Understanding post-operative temperature drop in cardiac surgery: a mathematical model. <i>Mathematical Medicine and Biology</i> , 2008, 25, 323-335. | 1.2 | 11 |
| 25 | Modelling acidosis and the cell cycle in multicellular tumour spheroids. <i>Journal of Theoretical Biology</i> , 2012, 298, 107-115. | 1.7 | 11 |
| 26 | Modelling Negative Feedback Networks for Activating Transcription Factor 3 Predicts a Dominant Role for miRNAs in Immediate Early Gene Regulation. <i>PLoS Computational Biology</i> , 2014, 10, e1003597. | 3.2 | 11 |
| 27 | A high-density immunoblotting methodology for quantification of total protein levels and phosphorylation modifications. <i>Scientific Reports</i> , 2015, 5, 16995. | 3.3 | 11 |
| 28 | Understanding the link between single cell and population scale responses of <i>Escherichia coli</i> in differing ligand gradients. <i>Computational and Structural Biotechnology Journal</i> , 2015, 13, 528-538. | 4.1 | 9 |
| 29 | Modelling Cell Growth and its Modulation of the G1/S Transition. <i>Bulletin of Mathematical Biology</i> , 2007, 69, 197-214. | 1.9 | 8 |
| 30 | A moving mesh approach for modelling avascular tumour growth. <i>Applied Numerical Mathematics</i> , 2013, 72, 99-114. | 2.1 | 8 |
| 31 | Integrating protein networks and machine learning for disease stratification in the Hereditary Spastic Paraplegias. <i>IScience</i> , 2021, 24, 102484. | 4.1 | 8 |
| 32 | Spatiotemporal modelling of CheY complexes in <i>Escherichia coli</i> chemotaxis. <i>Progress in Biophysics and Molecular Biology</i> , 2009, 100, 40-46. | 2.9 | 7 |
| 33 | Investigating Flavonoids as Molecular Templates for the Design of Small Molecule Inhibitors of Cell Signaling. <i>Journal of Food Science</i> , 2013, 78, N1921-8. | 3.1 | 6 |
| 34 | A Web-Based Knowledge Elicitation System (GISEL) for Planning and Assessing Group Screening Experiments for Product Development. <i>Journal of Computing and Information Science in Engineering</i> , 2004, 4, 218-225. | 2.7 | 5 |
| 35 | Mathematical Analysis of the <i>Escherichia coli</i> Chemotaxis Signalling Pathway. <i>Bulletin of Mathematical Biology</i> , 2018, 80, 758-787. | 1.9 | 5 |
| 36 | A model of the PI cycle reveals the regulating roles of lipid-binding proteins and pitfalls of using mosaic biological data. <i>Scientific Reports</i> , 2020, 10, 13244. | 3.3 | 5 |

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|----|--|-----|-----------|
| 37 | A mathematical model of the in vitro keratinocyte response to chromium and nickel exposure. <i>Toxicology in Vitro</i> , 2008, 22, 1088-1093. | 2.4 | 3 |
| 38 | Fold-Change Detection in a Whole-Pathway Model of Escherichia coli chemotaxis. <i>Bulletin of Mathematical Biology</i> , 2014, 76, 1376-1395. | 1.9 | 2 |
| 39 | System insights into hemostasis: Open questions and the role of mathematical modelling. <i>Physics of Life Reviews</i> , 2018, 26-27, 106-107. | 2.8 | 1 |
| 40 | A mathematical model of the role of aggregation in sonic hedgehog signalling. <i>PLoS Computational Biology</i> , 2021, 17, e1008562. | 3.2 | 0 |
| 41 | Web-Based Knowledge Elicitation and Application to Planned Experiments for Product Development. , 2003, , . | | 0 |
| 42 | Intracellular signalling during bacterial chemotaxis. <i>SEB Experimental Biology Series</i> , 2008, 61, 161-74. | 0.1 | 0 |