

# Olivier Gandrillon

## List of Publications by Year in descending order

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43  
papers

1,250  
citations

471509

17  
h-index

414414

32  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Cell-Based Analysis Highlights a Surge in Cell-to-Cell Molecular Variability Preceding Irreversible Commitment in a Differentiation Process. <i>PLoS Biology</i> , 2016, 14, e1002585.	5.6	220
2	SINCERITIES: inferring gene regulatory networks from time-stamped single cell transcriptional expression profiles. <i>Bioinformatics</i> , 2018, 34, 258-266.	4.1	141
3	TGF- $\beta$ 2 cooperates with TGF- $\beta$ 1 to induce the self-renewal of normal erythrocytic progenitors: evidence for an autocrine mechanism. <i>EMBO Journal</i> , 1999, 18, 2764-2781.	7.8	82
4	On the spontaneous stochastic dynamics of a single gene: complexity of the molecular interplay at the promoter. <i>BMC Systems Biology</i> , 2010, 4, 2.	3.0	67
5	Integrated time-lapse and single-cell transcription studies highlight the variable and dynamic nature of human hematopoietic cell fate commitment. <i>PLoS Biology</i> , 2017, 15, e2001867.	5.6	53
6	Quantifying the contribution of chromatin dynamics to stochastic gene expression reveals long, locus-dependent periods between transcriptional bursts. <i>BMC Biology</i> , 2013, 11, 15.	3.8	51
7	Inferring gene regulatory networks from single-cell data: a mechanistic approach. <i>BMC Systems Biology</i> , 2017, 11, 105.	3.0	48
8	Adding self-renewal in committed erythroid progenitors improves the biological relevance of a mathematical model of erythropoiesis. <i>Journal of Theoretical Biology</i> , 2008, 250, 322-338.	1.7	45
9	WASABI: a dynamic iterative framework for gene regulatory network inference. <i>BMC Bioinformatics</i> , 2019, 20, 220.	2.6	37
10	Stochastic Fluctuations and Distributed Control of Gene Expression Impact Cellular Memory. <i>PLoS ONE</i> , 2014, 9, e115574.	2.5	37
11	Identification of Nascent Memory CD8 T Cells and Modeling of Their Ontogeny. <i>Cell Systems</i> , 2017, 4, 306-317.e4.	6.2	36
12	Broadening of DNA replication origin usage during metazoan cell differentiation. <i>EMBO Reports</i> , 2006, 7, 806-811.	4.5	35
13	Multiscale Modeling of the Early CD8 T-Cell Immune Response in Lymph Nodes: An Integrative Study. <i>Computation</i> , 2014, 2, 159-181.	2.0	29
14	Mathematical study of feedback control roles and relevance in stress erythropoiesis. <i>Journal of Theoretical Biology</i> , 2010, 263, 303-316.	1.7	28
15	The MEK-1/ERKs signalling pathway is differentially involved in the self-renewal of early and late avian erythroid progenitor cells. <i>Oncogene</i> , 2003, 22, 9205-9216.	5.9	26
16	Erythroid differentiation displays a peak of energy consumption concomitant with glycolytic metabolism rearrangements. <i>PLoS ONE</i> , 2019, 14, e0221472.	2.5	26
17	Role of the different RAR isoforms in controlling the erythrocytic differentiation sequence. Interference with the v-erbA and p135gag-myb-ets nuclear oncogenes. <i>Oncogene</i> , 1998, 16, 563-574.	5.9	22
18	Drugs modulating stochastic gene expression affect the erythroid differentiation process. <i>PLoS ONE</i> , 2019, 14, e0225166.	2.5	22

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19	The quiescent fraction of chronic myeloid leukemic stem cells depends on BMPR1B, Stat3 and BMP4-niche signals to persist in patients in remission. <i>Haematologica</i> , 2020, 106, 111-122.	3.5	22
20	IL-2 sensitivity and exogenous IL-2 concentration gradient tune the productive contact duration of CD8+ T cell-APC: a multiscale modeling study. <i>BMC Systems Biology</i> , 2016, 10, 77.	3.0	20
21	Towards experimental manipulation of stochasticity in gene expression. <i>Progress in Biophysics and Molecular Biology</i> , 2012, 110, 44-53.	2.9	16
22	Global transcription analysis of immature avian erythrocytic progenitors: from self-renewal to differentiation. <i>Oncogene</i> , 2004, 23, 7628-7643.	5.9	15
23	Large-scale analysis by SAGE reveals new mechanisms of <i>v-erbA</i> oncogene action. <i>BMC Genomics</i> , 2007, 8, 390.	2.8	15
24	Identitag, a relational database for SAGE tag identification and interspecies comparison of SAGE libraries. <i>BMC Bioinformatics</i> , 2004, 5, 143.	2.6	14
25	Chance at the heart of the cell. <i>Progress in Biophysics and Molecular Biology</i> , 2012, 110, 1-4.	2.9	14
26	Temperature-induced variation in gene expression burst size in metazoan cells. <i>BMC Molecular Biology</i> , 2015, 16, 20.	3.0	12
27	Hematopoietic differentiation is characterized by a transient peak of entropy at a single-cell level. <i>BMC Biology</i> , 2022, 20, 60.	3.8	12
28	Mathematical model of the primary CD8 T cell immune response: stability analysis of a nonlinear age-structured system. <i>Journal of Mathematical Biology</i> , 2012, 65, 263-291.	1.9	11
29	Entropy as a measure of variability and stemness in single-cell transcriptomics. <i>Current Opinion in Systems Biology</i> , 2021, 27, 100348.	2.6	11
30	Model-Based Assessment of the Role of Uneven Partitioning of Molecular Content on Heterogeneity and Regulation of Differentiation in CD8 T-Cell Immune Responses. <i>Frontiers in Immunology</i> , 2019, 10, 230.	4.8	9
31	The <i>v-erbA</i> oncogene blocks expression of $\hat{I}\pm 2/\hat{I}^2$ integrin a normal inhibitor of erythroid progenitor proliferation. <i>Oncogene</i> , 2002, 21, 2864-2872.	5.9	8
32	A combination of transposable elements and magnetic cell sorting provides a very efficient transgenesis system for chicken primary erythroid progenitors. <i>BMC Biotechnology</i> , 2009, 9, 81.	3.3	7
33	Calibration, Selection and Identifiability Analysis of a Mathematical Model of the in vitro Erythropoiesis in Normal and Perturbed Contexts. <i>In Silico Biology</i> , 2019, 13, 55-69.	0.9	6
34	Reduction of a stochastic model of gene expression: Lagrangian dynamics gives access to basins of attraction as cell types and metastability. <i>Journal of Mathematical Biology</i> , 2021, 83, 59.	1.9	5
35	The <i>v-ErbA</i> oncoprotein quenches the activity of an erythroid-specific enhancer. <i>Oncogene</i> , 2001, 20, 775-787.	5.9	4
36	Identification of human, rat and chicken ribosomal proteins by a combination of two-dimensional polyacrylamide gel electrophoresis and mass spectrometry. <i>Journal of Proteomics</i> , 2011, 74, 167-185.	2.4	4

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37	Practical identifiability in the frame of nonlinear mixed effects models: the example of the in vitro erythropoiesis. BMC Bioinformatics, 2021, 22, 478.	2.6	4
38	The v-erbA Oncogene: Assessing Its Differentiation-Blocking Ability Using Normal. , 2002, 202, 91-107.		3
39	Evidence for close molecular proximity between reverting and undifferentiated cells. BMC Biology, 2022, 20, .	3.8	3
40	A Cloud-aware Autonomous Workflow Engine and Its Application to Gene Regulatory Networks Inference. , 2018, , .		2
41	Extracting Signature Motifs from Promoter Sets of Differentially Expressed Genes. In Silico Biology, 2009, 9, S17-S39.	0.9	1
42	Automated cell cycle and cell size measurements for single-cell gene expression studies. BMC Research Notes, 2018, 11, 92.	1.4	1
43	Chapitre 3. MÃ©canismes molÃ©culaires et fonction biologique de la variabilitÃ© de lâ€™expression gÃ©nÃ©rique Ã© lâ€™Ã©chelle de la cellule uniqueÃ©: une approche systÃ©mique. Sciences & Philosophie, 0, , 82-111.	0.0	0