

Attila Becskei

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

3,566
citations

471509

17
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

3452
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering stability in gene networks by autoregulation. <i>Nature</i> , 2000, 405, 590-593.	27.8	1,385
2	Positive feedback in eukaryotic gene networks: cell differentiation by graded to binary response conversion. <i>EMBO Journal</i> , 2001, 20, 2528-2535.	7.8	614
3	Enhancement of cellular memory by reducing stochastic transitions. <i>Nature</i> , 2005, 435, 228-232.	27.8	476
4	Contributions of low molecule number and chromosomal positioning to stochastic gene expression. <i>Nature Genetics</i> , 2005, 37, 937-944.	21.4	291
5	A System of Counteracting Feedback Loops Regulates Cdc42p Activity during Spontaneous Cell Polarization. <i>Developmental Cell</i> , 2005, 9, 565-571.	7.0	131
6	Multiplexed gene control reveals rapid mRNA turnover. <i>Science Advances</i> , 2017, 3, e1700006.	10.3	78
7	β -Amyloid (1-42) peptide impairs blood-brain barrier function after intracarotid infusion in rats. <i>Neuroscience Letters</i> , 1998, 253, 139-141.	2.1	65
8	Contribution of RNA Degradation to Intrinsic and Extrinsic Noise in Gene Expression. <i>Cell Reports</i> , 2019, 26, 3752-3761.e5.	6.4	63
9	Impact of Methods on the Measurement of mRNA Turnover. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2723.	4.1	51
10	Contribution of IL-12R mediated feedback loop to Th1 cell differentiation. <i>FEBS Letters</i> , 2007, 581, 5199-5206.	2.8	44
11	Spatial Epigenetic Control of Mono- and Bistable Gene Expression. <i>PLoS Biology</i> , 2010, 8, e1000332.	5.6	44
12	The strategy for coupling the RanGTP gradient to nuclear protein export. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1717-1722.	7.1	39
13	Stochastic signalling rewires the interaction map of a multiple feedback network during yeast evolution. <i>Nature Communications</i> , 2012, 3, 682.	12.8	37
14	Protein Dimerization Generates Bistability in Positive Feedback Loops. <i>Cell Reports</i> , 2016, 16, 1204-1210.	6.4	32
15	Quantitative models of nuclear transport. <i>Current Opinion in Cell Biology</i> , 2005, 17, 27-34.	5.4	30
16	Control and signal processing by transcriptional interference. <i>Molecular Systems Biology</i> , 2009, 5, 300.	7.2	22
17	Myoblasts Inhibit Prostate Cancer Growth by Paracrine Secretion of Tumor Necrosis Factor- α . <i>Journal of Urology</i> , 2013, 189, 1952-1959.	0.4	19
18	Stochastic Gene Choice during Cellular Differentiation. <i>Cell Reports</i> , 2018, 24, 3503-3512.	6.4	19

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19	Amplitude control of cell-cycle waves by nuclear import. <i>Nature Cell Biology</i> , 2004, 6, 451-457.	10.3	17
20	Quantification of pre-mRNA escape rate and synergy in splicing. <i>Nucleic Acids Research</i> , 2014, 42, 12847-12860.	14.5	13
21	Contribution of Bistability and Noise to Cell Fate Transitions Determined by Feedback Opening. <i>Journal of Molecular Biology</i> , 2016, 428, 4115-4128.	4.2	13
22	Synergy of Repression and Silencing Gradients Along the Chromosome. <i>Journal of Molecular Biology</i> , 2009, 387, 826-839.	4.2	11
23	Tuning up Transcription Factors for Therapy. <i>Molecules</i> , 2020, 25, 1902.	3.8	11
24	The cost of feedback control. <i>Nature</i> , 2010, 467, 163-164.	27.8	8
25	Measurement of <i>In Vivo</i> Protein Binding Affinities in a Signaling Network with Mass Spectrometry. <i>ACS Synthetic Biology</i> , 2017, 6, 1305-1314.	3.8	7
26	Determinants of the temperature adaptation of mRNA degradation. <i>Nucleic Acids Research</i> , 2022, 50, 1092-1110.	14.5	7
27	Suggested binding mechanism of the HIV-gp120 to its CD4 receptor. <i>Computational and Theoretical Chemistry</i> , 1996, 367, 159-186.	1.5	6
28	Gene Families With Stochastic Exclusive Gene Choice Underlie Cell Adhesion in Mammalian Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 642212.	3.7	6
29	Identification of optimal parameter combinations for the emergence of bistability. <i>Physical Biology</i> , 2015, 12, 066011.	1.8	5
30	An open-loop approach to calculate noise-induced transitions. <i>Journal of Theoretical Biology</i> , 2017, 415, 145-157.	1.7	5
31	Linearization through distortion: a new facet of negative feedback in signalling. <i>Molecular Systems Biology</i> , 2009, 5, 255.	7.2	4
32	Synthetic Transcription Factors Switch from Local to Long-Range Control during Cell Differentiation. <i>ACS Synthetic Biology</i> , 2019, 8, 223-231.	3.8	4
33	Modeling of chromosomal epigenetic silencing processes. <i>Transcription</i> , 2011, 2, 173-178.	3.1	3
34	Measurement of bistability in a multidimensional parameter space. <i>Integrative Biology (United Kingdom)</i> , 2013, 5, 101-110.	1.3	2
35	Construction of cis-Regulatory Input Functions of Yeast Promoters. <i>Methods in Molecular Biology</i> , 2011, 734, 45-61.	0.9	2
36	Expression feels two pulses. <i>Nature</i> , 2015, 527, 46-47.	27.8	0