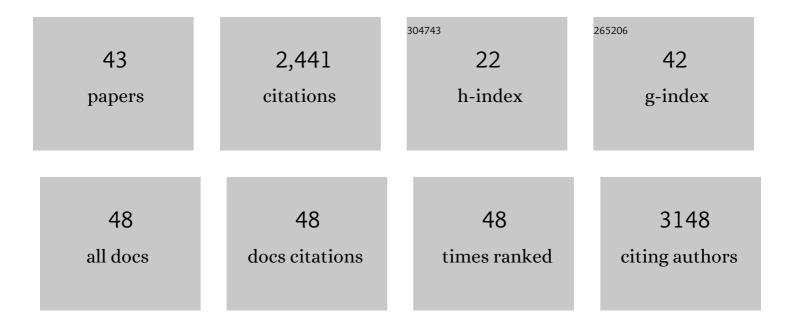
Alejandro A Colman-Lerner

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3620346/publications.pdf

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#	Article	IF	CITATIONS
1	Regulated cell-to-cell variation in a cell-fate decision system. Nature, 2005, 437, 699-706.	27.8	419
2	Yeast Cbk1 and Mob2 Activate Daughter-Specific Genetic Programs to Induce Asymmetric Cell Fates. Cell, 2001, 107, 739-750.	28.9	315
3	Phosphoproteomic Analysis Reveals Interconnected System-Wide Responses to Perturbations of Kinases and Phosphatases in Yeast. Science Signaling, 2010, 3, rs4.	3.6	277
4	Negative feedback that improves information transmission in yeast signalling. Nature, 2008, 456, 755-761.	27.8	208
5	Single-cell quantification of molecules and rates using open-source microscope-based cytometry. Nature Methods, 2007, 4, 175-181.	19.0	203
6	"Mutagenesis" by peptide aptamers identifies genetic network members and pathway connections. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8567-8572.	7.1	99
7	Scaffold number in yeast signaling system sets tradeoff between system output and dynamic range. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20265-20270.	7.1	57
8	Modelling reveals novel roles of two parallel signalling pathways and homeostatic feedbacks in yeast. Molecular Systems Biology, 2012, 8, 622.	7.2	56
9	Regulation of metalloproteinases by nitric oxide in human trophoblast cells in culture. Reproduction, Fertility and Development, 2001, 13, 411.	0.4	51
10	PI3K/AKT pathway regulates phosphorylation of steroid receptors, hormone independence and tumor differentiation in breast cancer. Carcinogenesis, 2012, 33, 509-518.	2.8	47
11	Heat-stress triggers MAPK crosstalk to turn on the hyperosmotic response pathway. Scientific Reports, 2018, 8, 15168.	3.3	46
12	In vivo evidences of early neurosteroid synthesis in the developing rat central nervous system and placenta. Developmental Brain Research, 2000, 120, 83-86.	1.7	45
13	Compartmentalization of a Bistable Switch Enables Memory to Cross a Feedback-Driven Transition. Cell, 2015, 160, 1182-1195.	28.9	45
14	Pheromone-Induced Morphogenesis Improves Osmoadaptation Capacity by Activating the HOG MAPK Pathway. Science Signaling, 2013, 6, ra26.	3.6	44
15	Nonlinear mixed-effects modelling for single cell estimation: when, why, and how to use it. BMC Systems Biology, 2015, 9, 52.	3.0	40
16	CDK and MAPK Synergistically Regulate Signaling Dynamics via a Shared Multi-site Phosphorylation Region on the Scaffold Protein Ste5. Molecular Cell, 2018, 69, 938-952.e6.	9.7	39
17	Nitric oxide induces gelatinase A (matrix metalloproteinase 2) during rat embryo implantation. Fertility and Sterility, 2002, 78, 1278-1287.	1.0	38
18	Yeast <scp>GPCR</scp> signaling reflects the fraction of occupied receptors, not the number. Molecular Systems Biology, 2016, 12, 898.	7.2	36

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19	Modification of Akt by SUMO conjugation regulates alternative splicing and cell cycle. Cell Cycle, 2013, 12, 3354-3363.	2.6	32
20	Utilization of extracellular information before ligand-receptor binding reaches equilibrium expands and shifts the input dynamic range. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3860-9.	7.1	32
21	Messages Do Diffuse Faster than Messengers: Reconciling Disparate Estimates of the Morphogen Bicoid Diffusion Coefficient. PLoS Computational Biology, 2014, 10, e1003629.	3.2	31
22	Modulation of the Akt Pathway Reveals a Novel Link with PERK/eIF2α, which Is Relevant during Hypoxia. PLoS ONE, 2013, 8, e69668.	2.5	30
23	Comparative studies between freshly isolated and spontaneously immortalized bovine granulosa cells: Protein secretion, steroid metabolism, and responsiveness to growth factors. Journal of Cellular Physiology, 1995, 164, 395-403.	4.1	28
24	Push-Pull and Feedback Mechanisms Can Align Signaling System Outputs with Inputs. Cell Systems, 2016, 3, 444-455.e2.	6.2	26
25	Ultrasensitivity in signaling cascades revisited: Linking local and global ultrasensitivity estimations. PLoS ONE, 2017, 12, e0180083.	2.5	20
26	Akt Is S-Palmitoylated: A New Layer of Regulation for Akt. Frontiers in Cell and Developmental Biology, 2021, 9, 626404.	3.7	20
27	Quantitative Measurement of Protein Relocalization in Live Cells. Biophysical Journal, 2013, 104, 727-736.	0.5	17
28	Using Cellâ€ID 1.4 with R for Microscopeâ€Based Cytometry. Current Protocols in Molecular Biology, 2008, 84, Unit 14.18.	2.9	16
29	Evidence for a Role of the Alternatively Spliced ED-I Sequence of Fibronectin during Ovarian Follicular Development1. Endocrinology, 1999, 140, 2541-2548.	2.8	15
30	Using Cellâ€ID 1.4 with R for Microscopeâ€Based Cytometry. Current Protocols in Molecular Biology, 2012, 100, Unit 14.18.	2.9	15
31	Biosynthesis of progesterone derived neurosteroids by developing avian CNS : in vitro effects on the gabaa receptor complex. International Journal of Developmental Neuroscience, 1998, 16, 433-442.	1.6	14
32	Optical techniques provide information on various effective diffusion coefficients in the presence of traps. Physical Review E, 2010, 82, 051912.	2.1	14
33	Transforming growth factor β1 regulates follistatin mrna expression during in vitro bovine granulosa cell differentiation. Journal of Cellular Physiology, 2006, 207, 40-48.	4.1	13
34	The Alpha Project: a model system for systems biology research. IET Systems Biology, 2008, 2, 222-233.	1.5	11
35	Mitotic and pheromone-specific intrinsic polarization cues interfere with gradient sensing in <i>Saccharomyces cerevisiae</i> . Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6580-6589.	7.1	10
36	Expression of 3β-hydroxysteroid dehydrogenase in early bovine embryo development. Molecular Reproduction and Development, 2002, 61, 135-141.	2.0	8

#	Article	IF	CITATIONS
37	Properties of cell signaling pathways and gene expression systems operating far from steady-state. Scientific Reports, 2018, 8, 17035.	3.3	7
38	Singleâ€cell profiling screen identifies microtubuleâ€dependent reduction of variability in signaling. Molecular Systems Biology, 2018, 14, e7390.	7.2	5
39	Evidence for a Role of the Alternatively Spliced ED-I Sequence of Fibronectin during Ovarian Follicular Development. Endocrinology, 1999, 140, 2541-2548.	2.8	5
40	Impact of upstream and downstream constraints on a signaling module's ultrasensitivity. Physical Biology, 2014, 11, 066003.	1.8	4
41	GPCR receptor phosphorylation and endocytosis are not necessary to switch polarized growth between internal cues during pheromone response in <i>S. cerevisiae</i> . Communicative and Integrative Biology, 2020, 13, 128-139.	1.4	1
42	Synthetic Crossfeeding Cocultures in Yeast: Computational Model of Autoregulation and Design of a Tryptophan Export Device. Journal of Synthetic Biology, 2015, 2015, 1-10.	0.0	0
43	Abstract 1316: Overactivation of AKT promotes hormone-independent mammary tumors. , 2011, , .		Ο