

Anatoly B Kiyatkin

List of Publications by Year in descending order

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236833

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43
all docs

43
docs citations

43
times ranked

4499
citing authors

#	ARTICLE	IF	CITATIONS
1	Untangling the wires: A strategy to trace functional interactions in signaling and gene networks. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12841-12846.	3.3	386
2	Cross-talk between mitogenic Ras/MAPK and survival PI3K/Akt pathways: a fine balance. Biochemical Society Transactions, 2012, 40, 139-146.	1.6	385
3	Crystallographic structure and functional interpretation of the cytoplasmic domain of erythrocyte membrane band 3. Blood, 2000, 96, 2925-2933.	0.6	279
4	EGFR Ligands Differentially Stabilize Receptor Dimers to Specify Signaling Kinetics. Cell, 2017, 171, 683-695.e18.	13.5	276
5	Systems-level interactions between insulin-EGF networks amplify mitogenic signaling. Molecular Systems Biology, 2009, 5, 256.	3.2	205
6	Bistability in the Rac1, PAK, and RhoA Signaling Network Drives Actin Cytoskeleton Dynamics and Cell Motility Switches. Cell Systems, 2016, 2, 38-48.	2.9	159
7	Scaffolding Protein Grb2-associated Binder 1 Sustains Epidermal Growth Factor-induced Mitogenic and Survival Signaling by Multiple Positive Feedback Loops*. Journal of Biological Chemistry, 2006, 281, 19925-19938.	1.6	153
8	Inferring dynamic architecture of cellular networks using time series of gene expression, protein and metabolite data. Bioinformatics, 2004, 20, 1877-1886.	1.8	148
9	Kinetochores kinesin CENP-E is a processive bi-directional tracker of dynamic microtubule tips. Nature Cell Biology, 2013, 15, 1079-1088.	4.6	122
10	Immunogenicity, Efficacy, Safety, and Mechanism of Action of Epitope Vaccine (Lu AF20513) for Alzheimer's Disease: Prelude to a Clinical Trial. Journal of Neuroscience, 2013, 33, 4923-4934.	1.7	100
11	Oscillations and waves in metal-ion-catalyzed bromate oscillating reactions in highly oxidized states. The Journal of Physical Chemistry, 1993, 97, 7578-7584.	2.9	98
12	The Dark Side of Cell Signaling: Positive Roles for Negative Regulators. Cell, 2016, 164, 1172-1184.	13.5	97
13	Anti-A β 11 Antibody Binds to Different A β -Amyloid Species, Inhibits Fibril Formation, and Disaggregates Preformed Fibrils but Not the Most Toxic Oligomers. Journal of Biological Chemistry, 2007, 282, 22376-22386.	1.6	90
14	Prolactin-stimulated activation of ERK1/2 mitogen-activated protein kinases is controlled by PI3-kinase/Rac/PAK signaling pathway in breast cancer cells. Cellular Signalling, 2011, 23, 1794-1805.	1.7	89
15	Emergence of bimodal cell population responses from the interplay between analog single-cell signaling and protein expression noise. BMC Systems Biology, 2012, 6, 109.	3.0	89
16	PI3K/Akt-sensitive MEK-independent compensatory circuit of ERK activation in ER-positive PI3K-mutant T47D breast cancer cells. Cellular Signalling, 2010, 22, 1369-1378.	1.7	84
17	Prostaglandin E2 Stimulates a Ca ²⁺ -dependent K ⁺ Channel in Human Erythrocytes and Alters Cell Volume and Filterability. Journal of Biological Chemistry, 1996, 271, 18651-18656.	1.6	78
18	Temperature Dependence of the Epidermal Growth Factor Receptor Signaling Network Can Be Accounted for by a Kinetic Model. Biochemistry, 2002, 41, 306-320.	1.2	74

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19	Signal processing at the Ras circuit: what shapes Ras activation patterns?. IET Systems Biology, 2004, 1, 104-113.	2.0	51
20	Kinetics of receptor tyrosine kinase activation define ERK signaling dynamics. Science Signaling, 2020, 13, .	1.6	45
21	Multistrip Western blotting to increase quantitative data output. Electrophoresis, 2007, 28, 3163-3173.	1.3	38
22	Glioblastoma mutations alter EGFR dimer structure to prevent ligand bias. Nature, 2022, 602, 518-522.	13.7	36
23	Tyr-317 Phosphorylation Increases Shc Structural Rigidity and Reduces Coupling of Domain Motions Remote from the Phosphorylation Site as Revealed by Molecular Dynamics Simulations. Journal of Biological Chemistry, 2004, 279, 4657-4662.	1.6	30
24	Immunization with a plant-produced colorectal cancer antigen. Cancer Immunology, Immunotherapy, 2004, 53, 92-99.	2.0	29
25	Refinement of a DNA based Alzheimer disease epitope vaccine in rabbits. Human Vaccines and Immunotherapeutics, 2013, 9, 1002-1010.	1.4	28
26	Signal transduction between red cells and other blood cells. Stem Cells, 1995, 13, 90-91.	1.4	26
27	Multistrip Western Blotting to Increase Quantitative Data Output. Methods in Molecular Biology, 2009, 536, 149-161.	0.4	25
28	Molecular Dynamics Simulations Reveal that Tyr-317 Phosphorylation Reduces Shc Binding Affinity for Phosphotyrosyl Residues of Epidermal Growth Factor Receptor. Biophysical Journal, 2009, 96, 2278-2288.	0.2	21
29	Multistrip Western Blotting: A Tool for Comparative Quantitative Analysis of Multiple Proteins. Methods in Molecular Biology, 2015, 1312, 197-226.	0.4	18
30	Silence on the relevant literature and errors in implementation. Nature Biotechnology, 2015, 33, 336-339.	9.4	14
31	Control of erythrocyte metabolism by redox-regulated tyrosine phosphatases and kinases. Protoplasma, 1995, 184, 196-202.	1.0	11
32	Crystallization and preliminary X-ray analysis of the cytoplasmic domain of human erythrocyte band 3. Proteins: Structure, Function and Bioinformatics, 1995, 22, 293-297.	1.5	9
33	Modeling of Receptor Tyrosine Kinase Signaling: Computational and Experimental Protocols. Methods in Molecular Biology, 2017, 1636, 417-453.	0.4	8
34	Crystallographic structure and functional interpretation of the cytoplasmic domain of erythrocyte membrane band 3. Blood, 2000, 96, 2925-2933.	0.6	5
35	Comparison of tyrosine kinase domain properties for the neurotrophin receptors TrkA and TrkB. Biochemical Journal, 2020, 477, 4053-4070.	1.7	4
36	Detection of the Active Components of Calf Thymus Nuclear Proteins (TNP), Histones that are Binding with High Affinity to HIV-1 Envelope Proteins and CD4 Molecules. Current HIV Research, 2008, 6, 318-326.	0.2	3

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37	Synergistic anti-tumor effect by a combination treatment with the dietary flavonoid luteolin and the chemotherapy drugs Tsigina or Adrucil in human pancreatic cancer cells. FASEB Journal, 2012, 26, 999.4.	0.2	2
38	Three-factor models versus time series models: quantifying time-dependencies of interactions between stimuli in cell biology and psychobiology for short longitudinal data. Mathematical Medicine and Biology, 2016, 34, dqw001.	0.8	0
39	Respective, Time-dependent Phosphorylation Modules Shaping Phosphoproteome Abundance and Turnover. FASEB Journal, 2021, 35, .	0.2	0
40	Dynamic cross-talk between PI3-kinase/Akt and Ras/ERK pathways in EGF receptor signaling that can affect drug sensitivity in tumor cells. FASEB Journal, 2010, 24, 715.2.	0.2	0
41	THE ROUTES OF ERK ACTIVATION IN PROLACTIN-STIMULATED BREAST CANCER CELLS. FASEB Journal, 2011, 25, .	0.2	0