Harish Shankaran

List of Publications by Year
in descending order

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27 papers	1,151 citations	471509 17 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	1667 citing authors

#	Article	IF	Citations
1	Integrated analysis reveals that STAT3 is central to the crosstalk between HER/ErbB receptor signaling pathways in human mammary epithelial cells. Molecular BioSystems, 2015, 11, 146-158.	2.9	14
2	ERK Oscillation-Dependent Gene Expression Patterns and Deregulation by Stress Response. Chemical Research in Toxicology, 2014, 27, 1496-1503.	3.3	13
3	Integrated experimental and computational approach to understand the effects of heavy ion radiation on skin homeostasis. Integrative Biology (United Kingdom), 2013, 5, 1229-1243.	1.3	6
4	Physiologically-based pharmacokinetic model for Fentanyl in support of the development of Provisional Advisory Levels. Toxicology and Applied Pharmacology, 2013, 273, 464-476.	2.8	29
5	Model-Based Analysis of HER Activation in Cells Co-Expressing EGFR, HER2 and HER3. PLoS Computational Biology, 2013, 9, e1003201.	3.2	16
6	Integrated experimental and model-based analysis reveals the spatial aspects of EGFR activation dynamics. Molecular BioSystems, 2012, 8, 2868.	2.9	15
7	Using Imaging Methods to Interrogate Radiation-Induced Cell Signaling. Radiation Research, 2012, 177, 496-507.	1.5	0
8	Cell typeâ€dependent gene transcription profile in a threeâ€dimensional human skin tissue model exposed to low doses of ionizing radiation: Implications for medical exposures. Environmental and Molecular Mutagenesis, 2012, 53, 247-259.	2.2	17
9	Inhibition of ERK oscillations by ionizing radiation and reactive oxygen species. Molecular Carcinogenesis, 2011, 50, 424-432.	2.7	7
10	Spatial Aspects in Biological System Simulations. Methods in Enzymology, 2011, 487, 485-511.	1.0	10
11	Basic Fibroblast Growth Factor Regulates Persistent ERK Oscillations in Premalignant but Not Malignant JB6 Cells. Journal of Investigative Dermatology, 2010, 130, 1444-1456.	0.7	24
12	Oscillatory dynamics of the extracellular signal-regulated kinase pathway. Current Opinion in Genetics and Development, 2010, 20, 650-655.	3.3	34
13	Structure of the EGF receptor transactivation circuit integrates multiple signals with cell context. Molecular BioSystems, 2010, 6, 1293.	2.9	23
14	Rapid and sustained nuclearâ€“cytoplasmic ERK oscillations induced by epidermal growth factor. Molecular Systems Biology, 2009, 5, 332.	7.2	216
15	HER/ErbB receptor interactions and signaling patterns in human mammary epithelial cells. BMC Cell Biology, 2009, 10, 78.	3.0	34
16	Quantifying the effects of co-expressing EGFR and HER2 on HER activation and trafficking. Biochemical and Biophysical Research Communications, 2008, 371, 220-224.	2.1	20
17	Smad Signaling Dynamics: Insights from a Parsimonious Model. Science Signaling, 2008, 1, pe41.	3.6	8
18	Cell Surface Receptors for Signal Transduction and Ligand Transport: A Design Principles Study. PLoS Computational Biology, 2007, 3, e101.	3.2	75

#	Article	IF	Citations
19	Receptor downregulation and desensitization enhance the information processing ability of signalling receptors. BMC Systems Biology, 2007, 1, 48.	3.0	64
20	Modeling the Effects of HER/ErbB1-3 Coexpression on Receptor Dimerization and Biological Response. Biophysical Journal, 2006, 90, 3993-4009.	0.5	62
21	Biomechanics of P-Selectin PSGL-1 Bonds: Shear Threshold and Integrin-Independent Cell Adhesion. Biophysical Journal, 2006, 90, 2221-2234.	0.5	24
22	Solution Structure of Human von Willebrand Factor Studied Using Small Angle Neutron Scattering*. Journal of Biological Chemistry, 2006, 281, 38266-38275.	3.4	60
23	Hydrodynamic Forces Applied on Intercellular Bonds, Soluble Molecules, and Cell-Surface Receptors. Biophysical Journal, 2004, 86, 576-588.	0.5	57
24	Aspects of hydrodynamic shear regulating shear-induced platelet activation and self-association of von Willebrand factor in suspension. Blood, 2003, 101, 2637-2645.	1.4	210
25	Nonlinear Flow Affects Hydrodynamic Forces and Neutrophil Adhesion Rates in Coneâ€“Plate Viscometers. Biophysical Journal, 2001, 80, 2631-2648.	0.5	27
26	The Ability of Poloxamers to Inhibit Platelet Aggregation Depends on their Physicochemical Properties. Thrombosis and Haemostasis, 2001, 86, 1532-1539.	3.4	30
27	Shear and Time-Dependent Changes in Mac-1, LFA-1, and ICAM-3 Binding Regulate Neutrophil Homotypic Adhesion. Journal of Immunology, 2000, 164, 3798-3805.	0.8	56