

Tobias A Knoch

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

2,514
citations

361045

20
h-index

433756

31
g-index

34
all docs

34
docs citations

34
times ranked

4269
citing authors

#	ARTICLE	IF	CITATIONS
1	Cohesin and CTCF differentially affect chromatin architecture and gene expression in human cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 996-1001.	3.3	700
2	The 3D Structure of the Immunoglobulin Heavy-Chain Locus: Implications for Long-Range Genomic Interactions. <i>Cell</i> , 2008, 133, 265-279.	13.5	271
3	Trichostatin A-induced histone acetylation causes decondensation of interphase chromatin. <i>Journal of Cell Science</i> , 2004, 117, 4277-4287.	1.2	207
4	Ionomycin-activated Calpain Triggers Apoptosis. <i>Journal of Biological Chemistry</i> , 2002, 277, 27217-27226.	1.6	183
5	Counting Nucleosomes in Living Cells with a Combination of Fluorescence Correlation Spectroscopy and Confocal Imaging. <i>Journal of Molecular Biology</i> , 2003, 334, 229-240.	2.0	147
6	Analyzing Intracellular Binding and Diffusion with Continuous Fluorescence Photobleaching. <i>Biophysical Journal</i> , 2003, 84, 3353-3363.	0.2	125
7	Enhancers and silencers: an integrated and simple model for their function. <i>Epigenetics and Chromatin</i> , 2012, 5, 1.	1.8	119
8	Dynamic behavior of GFP-CLIP-170 reveals fast protein turnover on microtubule plus ends. <i>Journal of Cell Biology</i> , 2008, 180, 729-737.	2.3	107
9	Targeted Chromatin Capture (T2C): a novel high resolution high throughput method to detect genomic interactions and regulatory elements. <i>Epigenetics and Chromatin</i> , 2014, 7, 10.	1.8	74
10	MediGRID: Towards a user friendly secured grid infrastructure. <i>Future Generation Computer Systems</i> , 2009, 25, 326-336.	4.9	63
11	Human SGT interacts with Bag-6/Bat-3/Scythe and cells with reduced levels of either protein display persistence of few misaligned chromosomes and mitotic arrest. <i>Experimental Cell Research</i> , 2006, 312, 2500-2514.	1.2	61
12	Subcellular Localization and in Vivo Subunit Interactions of Ubiquitous β -Calpain. <i>Journal of Biological Chemistry</i> , 2003, 278, 16336-16346.	1.6	60
13	Light optical precision measurements of the active and inactive Prader-Willi syndrome imprinted regions in human cell nuclei. <i>Differentiation</i> , 2008, 76, 66-82.	1.0	45
14	GRIMP: a web- and grid-based tool for high-speed analysis of large-scale genome-wide association using imputed data. <i>Bioinformatics</i> , 2009, 25, 2750-2752.	1.8	45
15	TNF signaling primes chromatin for NF- κ B binding and induces rapid and widespread nucleosome repositioning. <i>Genome Biology</i> , 2014, 15, 536.	3.8	45
16	Binding of nuclear factor κ B to noncanonical consensus sites reveals its multimodal role during the early inflammatory response. <i>Genome Research</i> , 2016, 26, 1478-1489.	2.4	43
17	Dynamic properties of independent chromatin domains measured by correlation spectroscopy in living cells. <i>Epigenetics and Chromatin</i> , 2016, 9, 57.	1.8	41
18	Super-resolution imaging reveals 3D folding dynamics of the β -globin locus upon gene activation. <i>Journal of Cell Science</i> , 2012, 125, 4630-9.	1.2	31

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19	Foraging in highly dynamic environments: leaf-cutting ants adjust foraging trail networks to pioneer plant availability. <i>Entomologia Experimentalis Et Applicata</i> , 2013, 147, 110-119.	0.7	31
20	The detailed 3D multi-loop aggregate/rosette chromatin architecture and functional dynamic organization of the human and mouse genomes. <i>Epigenetics and Chromatin</i> , 2016, 9, 58.	1.8	25
21	Fine-structured multi-scaling long-range correlations in completely sequenced genomes—features, origin, and classification. <i>European Biophysics Journal</i> , 2009, 38, 757-779.	1.2	18
22	Simulation of different three-dimensional polymer models of interphase chromosomes compared to experiments—an evaluation and review framework of the 3D genome organization. <i>Seminars in Cell and Developmental Biology</i> , 2019, 90, 19-42.	2.3	15
23	Investigation of the spatial structure and interactions of the genome at sub-kilobase-pair resolution using T2C. <i>Nature Protocols</i> , 2018, 13, 459-477.	5.5	13
24	Towards a Holistic Understanding of the Human Genome by Determination and Integration of Its Sequential and Three-Dimensional Organization. , 2003, , 421-440.		9
25	Solutions for biomedical grid computing—Case studies from the D-Grid project Services@MediGRID. <i>Journal of Computational Science</i> , 2012, 3, 280-297.	1.5	8
26	The GLOBE 3D Genome Platform - towards a novel system-biological paper tool to integrate the huge complexity of genome organization and function. <i>Studies in Health Technology and Informatics</i> , 2009, 147, 105-16.	0.2	8
27	Technology Transfer of Dynamic IT Outsourcing Requires Security Measures in SLAs. <i>Lecture Notes in Computer Science</i> , 2010, , 1-15.	1.0	5
28	A Consistent Systems Mechanics Model of the 3D Architecture and Dynamics of Genomes. , 2020, , .		4
29	Perspectives of MediGRID. <i>Studies in Health Technology and Informatics</i> , 2009, 147, 173-82.	0.2	3
30	A Guided Protocol for Array Based T2C: A High-Quality Selective High-Resolution High-Throughput Chromosome Interaction Capture. <i>Current Protocols in Human Genetics</i> , 2018, 99, e55.	3.5	2
31	Visualization in Health Grid Environments: A Novel Service and Business Approach. <i>Lecture Notes in Computer Science</i> , 2009, , 150-159.	1.0	2
32	Approaching the Internalization Challenge of Grid Technologies into e-Society by e-Human “Grid” Ecology. <i>Lecture Notes in Computer Science</i> , 2010, , 116-128.	1.0	2
33	e-Human Grid Ecology - understanding and approaching the inverse tragedy of the commons in the e-Grid society. <i>Studies in Health Technology and Informatics</i> , 2009, 147, 269-76.	0.2	2