

Torgeir R Hvidsten

List of Publications by Year in descending order

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63
papers

5,788
citations

136950

32
h-index

133252

59
g-index

84
all docs

84
docs citations

84
times ranked

8604
citing authors

#	ARTICLE	IF	CITATIONS
1	The Norway spruce genome sequence and conifer genome evolution. <i>Nature</i> , 2013, 497, 579-584.	27.8	1,303
2	The Atlantic salmon genome provides insights into rediploidization. <i>Nature</i> , 2016, 533, 200-205.	27.8	1,021
3	Genome interplay in the grain transcriptome of hexaploid bread wheat. <i>Science</i> , 2014, 345, 1250091.	12.6	318
4	Markers of Adenocarcinoma Characteristic of the Site of Origin: Development of a Diagnostic Algorithm. <i>Clinical Cancer Research</i> , 2005, 11, 3766-3772.	7.0	296
5	The Plant Genome Integrative Explorer Resource: PlantGen<scp>IE</scp>.org. <i>New Phytologist</i> , 2015, 208, 1149-1156.	7.3	282
6	Photoperiodic control of seasonal growth is mediated by ABA acting on cell-cell communication. <i>Science</i> , 2018, 360, 212-215.	12.6	272
7	AspWood: High-Spatial-Resolution Transcriptome Profiles Reveal Uncharacterized Modularity of Wood Formation in <i>Populus tremula</i> . <i>Plant Cell</i> , 2017, 29, 1585-1604.	6.6	219
8	Lineage-specific rediploidization is a mechanism to explain time-lags between genome duplication and evolutionary diversification. <i>Genome Biology</i> , 2017, 18, 111.	8.8	136
9	Gene co-expression network connectivity is an important determinant of selective constraint. <i>PLoS Genetics</i> , 2017, 13, e1006402.	3.5	106
10	Predicting Gene Ontology Biological Process From Temporal Gene Expression Patterns. <i>Genome Research</i> , 2003, 13, 965-979.	5.5	88
11	Activityâ€dormancy transition in the cambial meristem involves stage-specific modulation of auxin response in hybrid aspen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3418-3423.	7.1	86
12	Functional and evolutionary genomic inferences in <i>Populus</i> through genome and population sequencing of American and European aspen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10970-E10978.	7.1	84
13	Learning rule-based models of biological process from gene expression time profiles using Gene Ontology. <i>Bioinformatics</i> , 2003, 19, 1116-1123.	4.1	81
14	NorWood: a gene expression resource for evoâ€devo studies of conifer wood development. <i>New Phytologist</i> , 2017, 216, 482-494.	7.3	71
15	ComPlex: conservation and divergence of co-expression networks in <i>A. thaliana</i> , <i>Populus</i> and <i>O. sativa</i> . <i>BMC Genomics</i> , 2014, 15, 106.	2.8	69
16	Subfunctionalization versus neofunctionalization after whole-genome duplication. <i>Nature Genetics</i> , 2018, 50, 908-909.	21.4	67
17	OnPLS integration of transcriptomic, proteomic and metabolomic data shows multi-level oxidative stress responses in the cambium of transgenic hipl- superoxide dismutase <i>Populus</i> plants. <i>BMC Genomics</i> , 2013, 14, 893.	2.8	63
18	Microbiota-directed fibre activates both targeted and secondary metabolic shifts in the distal gut. <i>Nature Communications</i> , 2020, 11, 5773.	12.8	55

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19	Comparative regulomics supports pervasive selection on gene dosage following whole genome duplication. <i>Genome Biology</i> , 2021, 22, 103.	8.8	54
20	Ethylene signaling induces gelatinous layers with typical features of tension wood in hybrid aspen. <i>New Phytologist</i> , 2018, 218, 999-1014.	7.3	52
21	Challenges in microarray class discovery: a comprehensive examination of normalization, gene selection and clustering. <i>BMC Bioinformatics</i> , 2010, 11, 503.	2.6	51
22	Innovation, conservation, and repurposing of gene function in root cell type development. <i>Cell</i> , 2021, 184, 3333-3348.e19.	28.9	48
23	<i>Populus tremula</i> (European aspen) shows no evidence of sexual dimorphism. <i>BMC Plant Biology</i> , 2014, 14, 276.	3.6	45
24	Extracting functional trends from whole genome duplication events using comparative genomics. <i>Biological Procedures Online</i> , 2016, 18, 11.	2.9	45
25	Evolution of Cold Acclimation and Its Role in Niche Transition in the Temperate Grass Subfamily Pooideae. <i>Plant Physiology</i> , 2019, 180, 404-419.	4.8	45
26	The Grayling Genome Reveals Selection on Gene Expression Regulation after Whole-Genome Duplication. <i>Genome Biology and Evolution</i> , 2018, 10, 2785-2800.	2.5	42
27	Discovering regulatory binding-site modules using rule-based learning. <i>Genome Research</i> , 2005, 15, 856-866.	5.5	41
28	PREDICTING GENE FUNCTION FROM GENE EXPRESSIONS AND ONTOLOGIES. , 2000, , 299-310.		40
29	Using multi-data hidden Markov models trained on local neighborhoods of protein structure to predict residue-residue contacts. <i>Bioinformatics</i> , 2009, 25, 1264-1270.	4.1	39
30	Generalized modeling of enzyme-ligand interactions using proteochemometrics and local protein substructures. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 65, 568-579.	2.6	38
31	Characterization of cytokinin signaling and homeostasis gene families in two hardwood tree species: <i>Populus trichocarpa</i> and <i>Prunus persica</i> . <i>BMC Genomics</i> , 2013, 14, 885.	2.8	38
32	A Comprehensive Analysis of the Structure-Function Relationship in Proteins Based on Local Structure Similarity. <i>PLoS ONE</i> , 2009, 4, e6266.	2.5	37
33	Quantitative proteomics reveals protein profiles underlying major transitions in aspen wood development. <i>BMC Genomics</i> , 2016, 17, 119.	2.8	35
34	Life-stage-associated remodelling of lipid metabolism regulation in Atlantic salmon. <i>Molecular Ecology</i> , 2018, 27, 1200-1213.	3.9	35
35	Interaction Model Based on Local Protein Substructures Generalizes to the Entire Structural Enzyme-Ligand Space. <i>Journal of Chemical Information and Modeling</i> , 2008, 48, 2278-2288.	5.4	33
36	A metabolite roadmap of the wood-forming tissue in <i>Populus tremula</i> . <i>New Phytologist</i> , 2020, 228, 1559-1572.	7.3	32

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37	Towards integration of population and comparative genomics in forest trees. <i>New Phytologist</i> , 2016, 212, 338-344.	7.3	31
38	From proteins to polysaccharides: lifestyle and genetic evolution of <i>Coprothermobacter proteolyticus</i> . <i>ISME Journal</i> , 2019, 13, 603-617.	9.8	30
39	A segmental maximum a posteriori approach to genome-wide copy number profiling. <i>Bioinformatics</i> , 2008, 24, 751-758.	4.1	29
40	Integration of absolute multi-omics reveals dynamic protein-to-RNA ratios and metabolic interplay within mixed-domain microbiomes. <i>Nature Communications</i> , 2020, 11, 4708.	12.8	28
41	Classification of microarrays; synergistic effects between normalization, gene selection and machine learning. <i>BMC Bioinformatics</i> , 2011, 12, 390.	2.6	27
42	Serendipitous Meta-Transcriptomics: The Fungal Community of Norway Spruce (<i>Picea abies</i>). <i>PLoS ONE</i> , 2015, 10, e0139080.	2.5	27
43	A systems biology model of the regulatory network in <i>Populus</i> leaves reveals interacting regulators and conserved regulation. <i>BMC Plant Biology</i> , 2011, 11, 13.	3.6	26
44	A novel approach to fold recognition using sequence-derived properties from sets of structurally similar local fragments of proteins. <i>Bioinformatics</i> , 2003, 19, ii81-ii91.	4.1	25
45	A multi-omics approach reveals function of Secretory Carrier-Associated Membrane Proteins in wood formation of <i>Populus</i> trees. <i>BMC Genomics</i> , 2018, 19, 11.	2.8	25
46	Co-expression analysis, proteomic and metabolomic study on the impact of a Deg/HtrA protease triple mutant in <i>Synechocystis</i> sp. PCC 6803 exposed to temperature and high light stress. <i>Journal of Proteomics</i> , 2013, 78, 294-311.	2.4	19
47	Leaf shape in <i>Populus tremula</i> is a complex, omnigenic trait. <i>Ecology and Evolution</i> , 2020, 10, 11922-11940.	1.9	19
48	Local descriptors of protein structure: A systematic analysis of the sequence-structure relationship in proteins using short- and long-range interactions. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 75, 870-884.	2.6	15
49	SalMotifDB: a tool for analyzing putative transcription factor binding sites in salmonid genomes. <i>BMC Genomics</i> , 2019, 20, 694.	2.8	13
50	Using local gene expression similarities to discover regulatory binding site modules. <i>BMC Bioinformatics</i> , 2006, 7, 505.	2.6	12
51	<i>Populus</i> PtERF85 Balances Xylem Cell Expansion and Secondary Cell Wall Formation in Hybrid Aspen Cells. 2021, 10, 1971.	4.1	11
52	Overexpression of vesicle-associated membrane protein PttVAP27-17 as a tool to improve biomass production and the overall saccharification yields in <i>Populus</i> trees. <i>Biotechnology for Biofuels</i> , 2021, 14, 43.	6.2	10
53	Rough Sets in Bioinformatics. , 2007, , 225-243.		10
54	Revealing cell cycle control by combining model-based detection of periodic expression with novel cis-regulatory descriptors. <i>BMC Systems Biology</i> , 2007, 1, 45.	3.0	8

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55	Gene expression trends and protein features effectively complement each other in gene function prediction. <i>Bioinformatics</i> , 2009, 25, 322-330.	4.1	5
56	A Dual Enrichment Strategy Provides Soil- and Digestate-Competent Nitrous Oxide-Respiring Bacteria for Mitigating Climate Forcing in Agriculture. <i>MBio</i> , 2022, 13, .	4.1	5
57	What can cold-induced transcriptomes of Arctic Brassicaceae tell us about the evolution of cold tolerance?. <i>Molecular Ecology</i> , 2022, 31, 4271-4285.	3.9	5
58	Transkingdom network analysis provides insight into host-microbiome interactions in Atlantic salmon. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 1028-1034.	4.1	4
59	Synergy: A Web Resource for Exploring Gene Regulation in <i>Synechocystis</i> sp. PCC6803. <i>PLoS ONE</i> , 2014, 9, e113496.	2.5	4
60	A Computer Scientist's Guide to the Regulatory Genome. <i>Fundamenta Informaticae</i> , 2010, 103, 323-332.	0.4	2
61	Differential gene expression in the olfactory bulb following exposure to the olfactory toxicant 2,6-dichlorophenyl methylsulphone and its 2,5-dichlorinated isomer in mice. <i>NeuroToxicology</i> , 2007, 28, 1120-1128.	3.0	1
62	Bioinformatic Strategies for cDNA-Microarray Data Processing. , 0, , 61-74.		1
63	Towards Knowledge Discovery from cDNA Microarray Gene Expression Data. <i>Lecture Notes in Computer Science</i> , 2000, , 470-475.	1.3	0