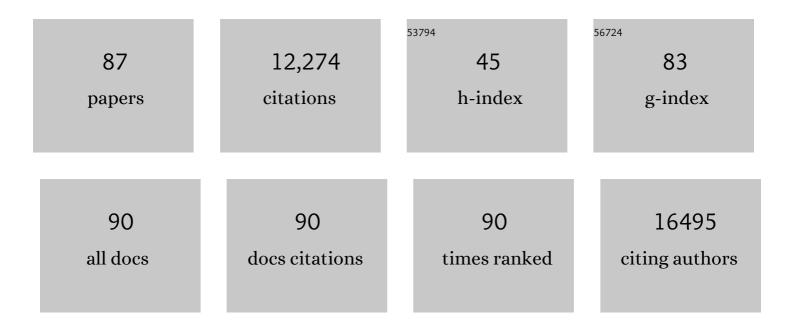
## Joachim Selbig

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	mapman: a user-driven tool to display genomics data sets onto diagrams of metabolic pathways and other biological processes. Plant Journal, 2004, 37, 914-939.	5.7	3,184
2	pcaMethods a bioconductor package providing PCA methods for incomplete data. Bioinformatics, 2007, 23, 1164-1167.	4.1	944
3	Extension of the Visualization Tool MapMan to Allow Statistical Analysis of Arrays, Display of Coresponding Genes, and Comparison with Known Responses. Plant Physiology, 2005, 138, 1195-1204.	4.8	576
4	A Robot-Based Platform to Measure Multiple Enzyme Activities in Arabidopsis Using a Set of Cycling Assays: Comparison of Changes of Enzyme Activities and Transcript Levels during Diurnal Cycles and in Prolonged Darkness[W]. Plant Cell, 2004, 16, 3304-3325.	6.6	489
5	Starch as a major integrator in the regulation of plant growth. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10348-10353.	7.1	467
6	Metabolomic and transcriptomic stress response of <i>Escherichia coli</i> . Molecular Systems Biology, 2010, 6, 364.	7.2	451
7	Metabolomics of temperature stress. Physiologia Plantarum, 2008, 132, 220-235.	5.2	439
8	The metabolic signature related to high plant growth rate in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4759-4764.	7.1	377
9	Diversity and complexity of HIV-1 drug resistance: A bioinformatics approach to predicting phenotype from genotype. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 8271-8276.	7.1	310
10	Parallel analysis of transcript and metabolic profiles: a new approach in systems biology. EMBO Reports, 2003, 4, 989-993.	4.5	308
11	PhosPhAt: a database of phosphorylation sites in Arabidopsis thaliana and a plant-specific phosphorylation site predictor. Nucleic Acids Research, 2007, 36, D1015-D1021.	14.5	302
12	The Metabolic Response of Heterotrophic Arabidopsis Cells to Oxidative Stress. Plant Physiology, 2007, 143, 312-325.	4.8	234
13	Structural kinetic modeling of metabolic networks. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11868-11873.	7.1	229
14	Geno2pheno: estimating phenotypic drug resistance from HIV-1 genotypes. Nucleic Acids Research, 2003, 31, 3850-3855.	14.5	213
15	Identification of metabolic and biomass QTL in <i>Arabidopsis thaliana</i> in a parallel analysis of RIL and IL populations. Plant Journal, 2008, 53, 960-972.	5.7	211
16	Mode of Inheritance of Primary Metabolic Traits in Tomato Â. Plant Cell, 2008, 20, 509-523.	6.6	208
17	Non-linear PCA: a missing data approach. Bioinformatics, 2005, 21, 3887-3895.	4.1	167
18	Integration of Metabolomic and Proteomic Phenotypes. Molecular and Cellular Proteomics, 2008, 7, 1725-1736.	3.8	155

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19	Predicting Arabidopsis Freezing Tolerance and Heterosis in Freezing Tolerance from Metabolite Composition. Molecular Plant, 2010, 3, 224-235.	8.3	120
20	Heterosis manifestation during early Arabidopsis seedling development is characterized by intermediate gene expression and enhanced metabolic activity in the hybrids. Plant Journal, 2012, 71, 669-683.	5.7	117
21	Discovering plant metabolic biomarkers for phenotype prediction using an untargeted approach. Plant Biotechnology Journal, 2010, 8, 900-911.	8.3	113
22	Learning Multiple Evolutionary Pathways from Cross-Sectional Data. Journal of Computational Biology, 2005, 12, 584-598.	1.6	105
23	Computational methods for the design of effective therapies against drug resistant HIV strains. Bioinformatics, 2005, 21, 3943-3950.	4.1	103
24	Metabolic profiling reveals key metabolic features of renal cell carcinoma. Journal of Cellular and Molecular Medicine, 2011, 15, 109-118.	3.6	102
25	Correlative GC-TOF-MS-based metabolite profiling and LC-MS-based protein profiling reveal time-related systemic regulation of metabolite–protein networks and improve pattern recognition for multiple biomarker selection. Metabolomics, 2005, 1, 109-121.	3.0	97
26	The stability and robustness of metabolic states: identifying stabilizing sites in metabolic networks. Molecular Systems Biology, 2007, 3, 146.	7.2	97
27	ProMEX: a mass spectral reference database for proteins and protein phosphorylation sites. BMC Bioinformatics, 2007, 8, 216.	2.6	96
28	Robin: An Intuitive Wizard Application for R-Based Expression Microarray Quality Assessment and Analysis  Â. Plant Physiology, 2010, 153, 642-651.	4.8	96
29	Principal Components Analysis. Methods in Molecular Biology, 2013, 930, 527-547.	0.9	96
30	Identification of heterotic metabolite QTL in <i>Arabidopsis thaliana</i> RIL and IL populations. Plant Journal, 2009, 59, 777-788.	5.7	95
31	QTL analysis of early stage heterosis for biomass in Arabidopsis. Theoretical and Applied Genetics, 2010, 120, 227-237.	3.6	90
32	Impact of the Carbon and Nitrogen Supply on Relationships and Connectivity between Metabolism and Biomass in a Broad Panel of Arabidopsis Accessions  Â. Plant Physiology, 2013, 162, 347-363.	4.8	87
33	The Golm Metabolome Database: aÂdatabase for GC-MS based metabolite profiling. Topics in Current Genetics, 2007, , 75-95.	0.7	79
34	Tenofovir Resistance and Resensitization. Antimicrobial Agents and Chemotherapy, 2003, 47, 3478-3484.	3.2	77
35	Estimating HIV Evolutionary Pathways and the Genetic Barrier to Drug Resistance. Journal of Infectious Diseases, 2005, 191, 1953-1960.	4.0	76
36	Glucocorticoid (dexamethasone)-induced metabolome changes in healthy males suggest prediction of response and side effects. Scientific Reports, 2015, 5, 15954.	3.3	76

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37	Corn hybrids display lower metabolite variability and complex metabolite inheritance patterns. Plant Journal, 2011, 68, 326-336.	5.7	75
38	Detection and characterization of 3D-signature phosphorylation site motifs and their contribution towards improved phosphorylation site prediction in proteins. BMC Bioinformatics, 2009, 10, 117.	2.6	66
39	From structure to dynamics of metabolic pathways: application to the plant mitochondrial TCA cycle. Bioinformatics, 2007, 23, 1378-1385.	4.1	65
40	Metabolite profile analysis: from raw data to regression and classification. Physiologia Plantarum, 2008, 132, 150-161.	5.2	64
41	MetaGeneAlyse: analysis of integrated transcriptional and metabolite data. Bioinformatics, 2003, 19, 2332-2333.	4.1	60
42	Improved Heterosis Prediction by Combining Information on DNA- and Metabolic Markers. PLoS ONE, 2009, 4, e5220.	2.5	57
43	More effort — more results: recent advances in integrative â€~omics' data analysis. Current Opinion in Plant Biology, 2016, 30, 57-61.	7.1	56
44	Decision tree-based formation of consensus protein secondary structure prediction. Bioinformatics, 1999, 15, 1039-1046.	4.1	52
45	Mesenchymal stem cells and glioma cells form a structural as well as a functional syncytium in vitro. Experimental Neurology, 2012, 234, 208-219.	4.1	49
46	Prediction of hybrid biomass in Arabidopsis thaliana by selected parental SNP and metabolic markers. Theoretical and Applied Genetics, 2010, 120, 239-247.	3.6	46
47	Kinetic hybrid models composed of mechanistic and simplified enzymatic rate laws – a promising method for speeding up the kinetic modelling of complex metabolic networks. FEBS Journal, 2009, 276, 410-424.	4.7	42
48	MAPA Distinguishes Genotype-Specific Variability of Highly Similar Regulatory Protein Isoforms in Potato Tuber. Journal of Proteome Research, 2011, 10, 2979-2991.	3.7	42
49	Methods for optimizing antiviral combination therapies. Bioinformatics, 2003, 19, i16-i25.	4.1	39
50	PaVESy: Pathway Visualization and Editing System. Bioinformatics, 2004, 20, 2841-2844.	4.1	39
51	Stability of Metabolic Correlations under Changing Environmental Conditions in Escherichia coli – A Systems Approach. PLoS ONE, 2009, 4, e7441.	2.5	39
52	SLocX: predicting subcellular localization of Arabidopsis proteins leveraging gene expression data. Frontiers in Plant Science, 2011, 2, 43.	3.6	32
53	Transcription factor target prediction using multiple short expression time series from Arabidopsis thaliana. BMC Bioinformatics, 2007, 8, 454.	2.6	28
54	Enriched partial correlations in genome-wide gene expression profiles of hybrids (A. thaliana): a systems biological approach towards the molecular basis of heterosis. Theoretical and Applied Genetics, 2010, 120, 249-259.	3.6	26

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55	Mass-balanced randomization of metabolic networks. Bioinformatics, 2011, 27, 1397-1403.	4.1	25
56	Visualization and Analysis of Molecular Data. Methods in Molecular Biology, 2007, 358, 87-104.	0.9	25
57	Integrated data analysis for genome-wide research. , 2007, 97, 309-329.		24
58	Spatiotemporal dynamics of the Calvin cycle: Multistationarity and symmetry breaking instabilities. BioSystems, 2011, 103, 212-223.	2.0	22
59	Evolution of HIV resistance during treatment interruption in experienced patients and after restarting a new therapy. Journal of Clinical Virology, 2005, 34, 277-287.	3.1	20
60	A plant resource and experiment management system based on the Golm Plant Database as a basic tool for omics research. Plant Methods, 2008, 4, 11.	4.3	20
61	Evolutionary significance of metabolic network properties. Journal of the Royal Society Interface, 2012, 9, 1168-1176.	3.4	19
62	A "Crossomics―Study Analysing Variability of Different Components in Peripheral Blood of Healthy Caucasoid Individuals. PLoS ONE, 2012, 7, e28761.	2.5	19
63	Deducing Hybrid Performance from Parental Metabolic Profiles of Young Primary Roots of Maize by Using a Multivariate Diallel Approach. PLoS ONE, 2014, 9, e85435.	2.5	19
64	The expression of Wnt-inhibitor DKK1 (Dickkopf 1) is determined by intercellular crosstalk and hypoxia in human malignant gliomas. Journal of Cancer Research and Clinical Oncology, 2014, 140, 1261-1270.	2.5	19
65	Understanding the Relationship between Cotton Fiber Properties and Non-Cellulosic Cell Wall Polysaccharides. PLoS ONE, 2014, 9, e112168.	2.5	15
66	Validation and functional annotation of expression-based clusters based on gene ontology. BMC Bioinformatics, 2006, 7, 380.	2.6	14
67	Decision trees as a simple-to-use and reliable tool to identify individuals with impaired glucose metabolism or type 2 diabetes mellitus. European Journal of Endocrinology, 2010, 163, 565-571.	3.7	14
68	Scoring and identifying organism-specific functional patterns and putative phosphorylation sites in protein sequences using mutual information. Biochemical and Biophysical Research Communications, 2003, 307, 516-521.	2.1	13
69	Bioinformatics approach to predicting HIV drug resistance. Expert Review of Molecular Diagnostics, 2006, 6, 207-215.	3.1	13
70	Biological Cluster Evaluation for Gene Function Prediction. Journal of Computational Biology, 2014, 21, 428-445.	1.6	13
71	Phenomic prediction of maize hybrids. BioSystems, 2016, 146, 102-109.	2.0	11
72	Arevir: A Secure Platform for Designing Personalized Antiretroviral Therapies Against HIV. Lecture Notes in Computer Science, 2006, , 185-194.	1.3	11

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73	Systematic Analysis of Stability Patterns in Plant Primary Metabolism. PLoS ONE, 2012, 7, e34686.	2.5	11
74	Co-ordination and divergence of cell-specific transcription and translation of genes in arabidopsis root cells. Annals of Botany, 2014, 114, 1109-1123.	2.9	10
75	Isolation and characterization of bone marrow-derived progenitor cells from malignant gliomas. Anticancer Research, 2012, 32, 4971-82.	1.1	10
76	BioMiner: Paving the Way for Personalized Medicine. Cancer Informatics, 2015, 14, CIN.S20910.	1.9	9
77	Species-specific analysis of protein sequence motifs using mutual information. BMC Bioinformatics, 2005, 6, 164.	2.6	8
78	Comparison of metabolite profiles in U87 glioma cells and mesenchymal stem cells. BioSystems, 2011, 105, 130-139.	2.0	7
79	A MATLAB toolbox for structural kinetic modeling. Bioinformatics, 2012, 28, 2546-2547.	4.1	7
80	A distinct metabolic signature predicts development of fasting plasma glucose. Journal of Clinical Bioinformatics, 2012, 2, 3.	1.2	6
81	Integration of a Systems Biological Network Analysis and QTL Results for Biomass Heterosis in Arabidopsis thaliana. PLoS ONE, 2012, 7, e49951.	2.5	6
82	Refined elasticity sampling for Monte Carlo-based identification of stabilizing network patterns. Bioinformatics, 2015, 31, i214-i220.	4.1	4
83	Learning multiple evolutionary pathways from cross-sectional data. , 2004, , .		3
84	Complexity of automated gene annotation. BioSystems, 2011, 104, 1-8.	2.0	2
85	Analysis of phylogenetic signal in protostomial intron patterns using Mutual Information. Theory in Biosciences, 2013, 132, 93-104.	1.4	1
86	Towards a Graph-Theoretic Approach to Hybrid Performance Prediction from Large-Scale Phenotypic Data. Lecture Notes in Computer Science, 2015, , 173-184.	1.3	0
87	HIV-1 Drug Resistance Prediction and Therapy Optimization: A Case Study for the Application of Classification and Clustering Methods. Lecture Notes in Computer Science, 2009, , 185-201.	1.3	0