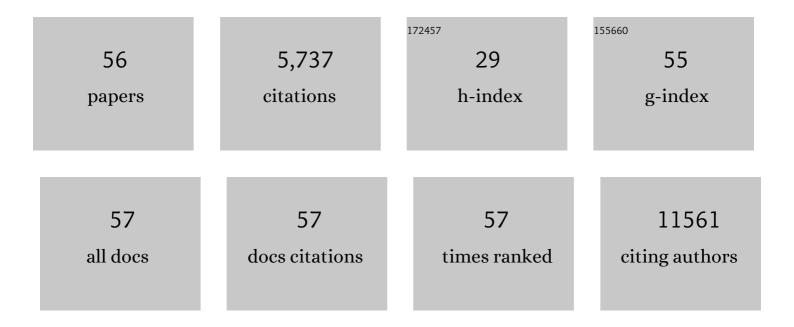
Mattias Rantalainen

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6099619/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Transcriptome-wide prediction of prostate cancer gene expression from histopathology images using co-expression-based convolutional neural networks. Bioinformatics, 2022, 38, 3462-3469.	4.1	9
2	Using deep learning to detect patients at risk for prostate cancer despite benign biopsies. IScience, 2022, 25, 104663.	4.1	5
3	Challenging conventional karyotyping by next-generation karyotyping in 281 intensively treated patients with AML. Blood Advances, 2021, 5, 1003-1016.	5.2	12
4	Biological and therapeutic implications of a unique subtype of NPM1 mutated AML. Nature Communications, 2021, 12, 1054.	12.8	29
5	Artificial Intelligence for Diagnosis and Gleason Grading of Prostate Cancer in Biopsies—Current Status and Next Steps. European Urology Focus, 2021, 7, 687-691.	3.1	18
6	Predicting Molecular Phenotypes from Histopathology Images: A Transcriptome-Wide Expression–Morphology Analysis in Breast Cancer. Cancer Research, 2021, 81, 5115-5126.	0.9	32
7	An investigation of attention mechanisms in histopathology whole-slide-image analysis for regression objectives. , 2021, , .		7
8	Artificial intelligence for diagnosis and grading of prostate cancer in biopsies: a population-based, diagnostic study. Lancet Oncology, The, 2020, 21, 222-232.	10.7	364
9	Integrated transcriptomic and genomic analysis improves prediction of complete remission and survival in elderly patients with acute myeloid leukemia. Blood Cancer Journal, 2020, 10, 67.	6.2	6
10	Artificial intelligence as the next step towards precision pathology. Journal of Internal Medicine, 2020, 288, 62-81.	6.0	212
11	<i>TP53</i> Outperforms Other Androgen Receptor Biomarkers to Predict Abiraterone or Enzalutamide Outcome in Metastatic Castration-Resistant Prostate Cancer. Clinical Cancer Research, 2019, 25, 1766-1773.	7.0	117
12	Development and Validation of a Novel RNA Sequencing–Based Prognostic Score for Acute Myeloid Leukemia. Journal of the National Cancer Institute, 2018, 110, 1094-1101.	6.3	15
13	Isoform-level gene expression patterns in single-cell RNA-sequencing data. Bioinformatics, 2018, 34, 2392-2400.	4.1	15
14	Prognostic value of Ki67 analysed by cytology or histology in primary breast cancer. Journal of Clinical Pathology, 2018, 71, 787-794.	2.0	21
15	Application of single-cell sequencing in human cancer. Briefings in Functional Genomics, 2018, 17, 273-282.	2.7	34
16	Digital image analysis of Ki67 in hot spots is superior to both manual Ki67 and mitotic counts in breast cancer. Histopathology, 2018, 72, 974-989.	2.9	70
17	Cell-free DNA profiling of metastatic prostate cancer reveals microsatellite instability, structural rearrangements and clonal hematopoiesis. Genome Medicine, 2018, 10, 85.	8.2	94
18	Expression levels of long non-coding RNAs are prognostic for AML outcome. Journal of Hematology and Oncology, 2018, 11, 52.	17.0	43

MATTIAS RANTALAINEN

#	Article	IF	CITATIONS
19	Validation of risk stratification models in acute myeloid leukemia using sequencing-based molecular profiling. Leukemia, 2017, 31, 2029-2036.	7.2	54
20	E-Science technologies in a workflow for personalized medicine using cancer screening as a case study. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 950-957.	4.4	4
21	Assessment of Breast Cancer Risk Factors Reveals Subtype Heterogeneity. Cancer Research, 2017, 77, 3708-3717.	0.9	87
22	Molecular Differences between Screen-Detected and Interval Breast Cancers Are Largely Explained by PAM50 Subtypes. Clinical Cancer Research, 2017, 23, 2584-2592.	7.0	15
23	Intra-tumor heterogeneity in breast cancer has limited impact on transcriptomic-based molecular profiling. BMC Cancer, 2017, 17, 802.	2.6	10
24	Sequencing-based breast cancer diagnostics as an alternative to routine biomarkers. Scientific Reports, 2016, 6, 38037.	3.3	17
25	Study design requirements for RNA sequencing-based breast cancer diagnostics. Scientific Reports, 2016, 6, 20200.	3.3	2
26	Reprogramming Tumor-Associated Macrophages by Antibody Targeting Inhibits Cancer Progression and Metastasis. Cell Reports, 2016, 15, 2000-2011.	6.4	452
27	Beta-Poisson model for single-cell RNA-seq data analyses. Bioinformatics, 2016, 32, 2128-2135.	4.1	151
28	Determining breast cancer histological grade from RNA-sequencing data. Breast Cancer Research, 2016, 18, 48.	5.0	34
29	Digital image analysis outperforms manual biomarker assessment in breast cancer. Modern Pathology, 2016, 29, 318-329.	5.5	144
30	Robust Linear Models for Cis-eQTL Analysis. PLoS ONE, 2015, 10, e0127882.	2.5	7
31	An Integrated Bioinformatics Approach for Identifying Genetic Markers that Predict Cerebrospinal Fluid Biomarker p-tau181/Aβ1-42 Ratio in ApoE4-Negative Mild Cognitive Impairment Patients. Journal of Alzheimer's Disease, 2015, 45, 1061-1076.	2.6	6
32	Integrative Transcriptomic and Metabonomic Molecular Profiling of Colonic Mucosal Biopsies Indicates a Unique Molecular Phenotype for Ulcerative Colitis. Journal of Proteome Research, 2015, 14, 479-490.	3.7	13
33	Combining Metabonomics and Other -omics Data. Methods in Molecular Biology, 2015, 1277, 147-159.	0.9	2
34	Integration of transcriptomics and metabonomics: improving diagnostics, biomarker identification and phenotyping in ulcerative colitis. Metabolomics, 2014, 10, 280-290.	3.0	24
35	The Presence of Methylation Quantitative Trait Loci Indicates a Direct Genetic Influence on the Level of DNA Methylation in Adipose Tissue. PLoS ONE, 2013, 8, e55923.	2.5	83
36	Extent, Causes, and Consequences of Small RNA Expression Variation in Human Adipose Tissue. PLoS Genetics, 2012, 8, e1002704.	3.5	48

MATTIAS RANTALAINEN

#	Article	IF	CITATIONS
37	Systems Responses of Rats to Mequindox Revealed by Metabolic and Transcriptomic Profiling. Journal of Proteome Research, 2012, 11, 4712-4721.	3.7	24
38	Accounting for Control Mislabeling in Case–Control Biomarker Studies. Journal of Proteome Research, 2011, 10, 5562-5567.	3.7	5
39	MicroRNA Expression in Abdominal and Gluteal Adipose Tissue Is Associated with mRNA Expression Levels and Partly Genetically Driven. PLoS ONE, 2011, 6, e27338.	2.5	46
40	Non-linear modeling of 1H NMR metabonomic data using kernel-based orthogonal projections to latent structures optimized by simulated annealing. Analytica Chimica Acta, 2011, 705, 72-80.	5.4	13
41	Variance decomposition of protein profiles from antibody arrays using a longitudinal twin model. Proteome Science, 2011, 9, 73.	1.7	19
42	Human metabolic profiles are stably controlled by genetic and environmental variation. Molecular Systems Biology, 2011, 7, 525.	7.2	158
43	A Genome-Wide Metabolic QTL Analysis in Europeans Implicates Two Loci Shaped by Recent Positive Selection. PLoS Genetics, 2011, 7, e1002270.	3.5	132
44	Structural shifts of gut microbiota as surrogate endpoints for monitoring host health changes induced by carcinogen exposure. FEMS Microbiology Ecology, 2010, 73, no-no.	2.7	44
45	Analytic Properties of Statistical Total Correlation Spectroscopy Based Information Recovery in 1H NMR Metabolic Data Sets. Analytical Chemistry, 2009, 81, 2075-2084.	6.5	56
46	Top-Down Systems Biology Modeling of Host Metabotypeâ^'Microbiome Associations in Obese Rodents. Journal of Proteome Research, 2009, 8, 2361-2375.	3.7	228
47	Piecewise multivariate modelling of sequential metabolic profiling data. BMC Bioinformatics, 2008, 9, 105.	2.6	24
48	K-OPLS package: Kernel-based orthogonal projections to latent structures for prediction and interpretation in feature space. BMC Bioinformatics, 2008, 9, 106.	2.6	71
49	Symbiotic gut microbes modulate human metabolic phenotypes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2117-2122.	7.1	994
50	Topographical Variation in Metabolic Signatures of Human Gastrointestinal Biopsies Revealed by High-Resolution Magic-Angle Spinning ¹ H NMR Spectroscopy. Journal of Proteome Research, 2007, 6, 3944-3951.	3.7	72
51	Statistical Correlation and Projection Methods for Improved Information Recovery from Diffusion-Edited NMR Spectra of Biological Samples. Analytical Chemistry, 2007, 79, 5682-5689.	6.5	87
52	Kernelâ€based orthogonal projections to latent structures (Kâ€OPLS). Journal of Chemometrics, 2007, 21, 376-385.	1.3	55
53	The comparative metabonomics of age-related changes in the urinary composition of male Wistar-derived and Zucker (fa/fa) obese rats. Molecular BioSystems, 2006, 2, 193.	2.9	54
54	Statistically Integrated Metabonomicâ^'Proteomic Studies on a Human Prostate Cancer Xenograft Model in Mice. Journal of Proteome Research, 2006, 5, 2642-2655.	3.7	146

#	Article	IF	CITATIONS
55	OPLS discriminant analysis: combining the strengths of PLSâ€DA and SIMCA classification. Journal of Chemometrics, 2006, 20, 341-351.	1.3	1,134
56	The metabonomics of aging and development in the rat: an investigation into the effect of age on the profile of endogenous metabolites in the urine of male rats using 1H NMR and HPLC-TOF MS. Molecular BioSystems, 2005, 1, 166.	2.9	119