

# Pål Melsted

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6423947/publications.pdf>

Version: 2024-02-01

40  
papers

15,475  
citations

236925

25  
h-index

302126

39  
g-index

55  
all docs

55  
docs citations

55  
times ranked

31289  
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-optimal probabilistic RNA-seq quantification. <i>Nature Biotechnology</i> , 2016, 34, 525-527.	17.5	7,322
2	Mash: fast genome and metagenome distance estimation using MinHash. <i>Genome Biology</i> , 2016, 17, 132.	8.8	2,099
3	Differential analysis of RNA-seq incorporating quantification uncertainty. <i>Nature Methods</i> , 2017, 14, 687-690.	19.0	1,296
4	Spread of SARS-CoV-2 in the Icelandic Population. <i>New England Journal of Medicine</i> , 2020, 382, 2302-2315.	27.0	1,093
5	Humoral Immune Response to SARS-CoV-2 in Iceland. <i>New England Journal of Medicine</i> , 2020, 383, 1724-1734.	27.0	845
6	Large-scale integration of the plasma proteome with genetics and disease. <i>Nature Genetics</i> , 2021, 53, 1712-1721.	21.4	340
7	Modular, efficient and constant-memory single-cell RNA-seq preprocessing. <i>Nature Biotechnology</i> , 2021, 39, 813-818.	17.5	252
8	Efficient counting of k-mers in DNA sequences using a bloom filter. <i>BMC Bioinformatics</i> , 2011, 12, 333.	2.6	222
9	GraphTyper enables population-scale genotyping using pangenome graphs. <i>Nature Genetics</i> , 2017, 49, 1654-1660.	21.4	189
10	Comparative RNA sequencing reveals substantial genetic variation in endangered primates. <i>Genome Research</i> , 2012, 22, 602-610.	5.5	145
11	Genomic-scale capture and sequencing of endogenous DNA from feces. <i>Molecular Ecology</i> , 2010, 19, 5332-5344.	3.9	127
12	A discriminative learning approach to differential expression analysis for single-cell RNA-seq. <i>Nature Methods</i> , 2019, 16, 163-166.	19.0	123
13	The barcode, UMI, set format and BUSStools. <i>Bioinformatics</i> , 2019, 35, 4472-4473.	4.1	117
14	GraphTyper2 enables population-scale genotyping of structural variation using pangenome graphs. <i>Nature Communications</i> , 2019, 10, 5402.	12.8	96
15	Insights into imprinting from parent-of-origin phased methylomes and transcriptomes. <i>Nature Genetics</i> , 2018, 50, 1542-1552.	21.4	94
16	Bifrost: highly parallel construction and indexing of colored and compacted de Bruijn graphs. <i>Genome Biology</i> , 2020, 21, 249.	8.8	92
17	FLT3 stop mutation increases FLT3 ligand level and risk of autoimmune thyroid disease. <i>Nature</i> , 2020, 584, 619-623.	27.8	81
18	Diversity in non-repetitive human sequences not found in the reference genome. <i>Nature Genetics</i> , 2017, 49, 588-593.	21.4	70

#	ARTICLE	IF	CITATIONS
19	A Genome Sequence Resource for the Aye-Aye ( <i>Daubentonia madagascariensis</i> ), a Nocturnal Lemur from Madagascar. <i>Genome Biology and Evolution</i> , 2012, 4, 126-135.	2.5	59
20	KmerStream: streaming algorithms for <i>k</i> -mer abundance estimation. <i>Bioinformatics</i> , 2014, 30, 3541-3547.	4.1	56
21	Looking into the past – the reaction of three grouse species to climate change over the last million years using whole genome sequences. <i>Molecular Ecology</i> , 2016, 25, 570-580.	3.9	49
22	Coding variants in RPL3L and MYZAP increase risk of atrial fibrillation. <i>Communications Biology</i> , 2018, 1, 68.	4.4	42
23	Maximum matchings in random bipartite graphs and the space utilization of Cuckoo Hash tables. <i>Random Structures and Algorithms</i> , 2012, 41, 334-364.	1.1	34
24	PopIns: population-scale detection of novel sequence insertions. <i>Bioinformatics</i> , 2016, 32, 961-967.	4.1	33
25	The genetic architecture of age-related hearing impairment revealed by genome-wide association analysis. <i>Communications Biology</i> , 2021, 4, 706.	4.4	30
26	An Analysis of Random-Walk Cuckoo Hashing. <i>Lecture Notes in Computer Science</i> , 2009, , 490-503.	1.3	19
27	An Analysis of Random-Walk Cuckoo Hashing. <i>SIAM Journal on Computing</i> , 2011, 40, 291-308.	1.0	17
28	Loss-of-Function Variants in the Tumor-Suppressor Gene <i>PTPN14</i> Confer Increased Cancer Risk. <i>Cancer Research</i> , 2021, 81, 1954-1964.	0.9	15
29	The Lair: a resource for exploratory analysis of published RNA-Seq data. <i>BMC Bioinformatics</i> , 2016, 17, 490.	2.6	13
30	Lifelong Reduction in LDL (Low-Density Lipoprotein) Cholesterol due to a Gain-of-Function Mutation in <i>LDLR</i> . <i>Circulation Genomic and Precision Medicine</i> , 2021, 14, e003029.	3.6	12
31	Reconstruction of a large-scale outbreak of SARS-CoV-2 infection in Iceland informs vaccination strategies. <i>Clinical Microbiology and Infection</i> , 2022, 28, 852-858.	6.0	11
32	A PRPH splice-donor variant associates with reduced sural nerve amplitude and risk of peripheral neuropathy. <i>Nature Communications</i> , 2019, 10, 1777.	12.8	7
33	Genetic variants associated with platelet count are predictive of human disease and physiological markers. <i>Communications Biology</i> , 2021, 4, 1132.	4.4	7
34	Randomly coloring simple hypergraphs. <i>Information Processing Letters</i> , 2011, 111, 848-853.	0.6	6
35	Molecular benchmarks of a SARS-CoV-2 epidemic. <i>Nature Communications</i> , 2021, 12, 3633.	12.8	3
36	BamHash: a checksum program for verifying the integrity of sequence data. <i>Bioinformatics</i> , 2016, 32, 140-141.	4.1	2

#	ARTICLE	IF	CITATIONS
37	Average-Case Analyses of Vickrey Costs. Lecture Notes in Computer Science, 2009, , 434-447.	1.3	2
38	Finding a Maximum Matching in a Sparse Random Graph in $O(n)$ Expected Time. Lecture Notes in Computer Science, 2008, , 161-172.	1.3	1
39	chopBAI: BAM index reduction solves I/O bottlenecks in the joint analysis of large sequencing cohorts. Bioinformatics, 2016, 32, 2202-2204.	4.1	0
40	Algorithm 1005. ACM Transactions on Mathematical Software, 2020, 46, 1-20.	2.9	0