## Fritz J Sedlazeck

## List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/497740/fritz-j-sedlazeck-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

6,536 80 120 33 h-index g-index citations papers 16.6 6.03 11,092 149 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
120	Ultrarapid Nanopore Genome Sequencing in a Critical Care Setting <i>New England Journal of Medicine</i> , <b>2022</b> ,	59.2	10
119	Centers for Mendelian Genomics: A decade of facilitating gene discovery <i>Genetics in Medicine</i> , <b>2022</b> ,	8.1	5
118	Curated variation benchmarks for challenging medically relevant autosomal genes <i>Nature Biotechnology</i> , <b>2022</b> ,	44.5	12
117	Ultra-Rapid Nanopore Whole Genome Genetic Diagnosis of Dilated Cardiomyopathy in an Adolescent With Cardiogenic Shock <i>Circulation Genomic and Precision Medicine</i> , <b>2022</b> , CIRCGEN121003	5 <del>9</del> 1	1
116	Accurate profiling of forensic autosomal STRs using the Oxford Nanopore Technologies MinION device. <i>Forensic Science International: Genetics</i> , <b>2022</b> , 56, 102629	4.3	O
115	Assessing reproducibility of inherited variants detected with short-read whole genome sequencing <i>Genome Biology</i> , <b>2022</b> , 23, 2	18.3	3
114	Rescuing low frequency variants within intra-host viral populations directly from Oxford Nanopore sequencing data <i>Nature Communications</i> , <b>2022</b> , 13, 1321	17.4	3
113	Accelerated identification of disease-causing variants with ultra-rapid nanopore genome sequencing <i>Nature Biotechnology</i> , <b>2022</b> ,	44.5	4
112	Towards accurate and reliable resolution of structural variants for clinical diagnosis <i>Genome Biology</i> , <b>2022</b> , 23, 68	18.3	1
111	A complete reference genome improves analysis of human genetic variation Science, 2022, 376, eabl3	5 <b>33</b> .3	12
110	The complete sequence of a human genome <i>Science</i> , <b>2022</b> , 376, 44-53	33.3	107
109	PrecisionFDA Truth Challenge V2: Calling variants from short and long reads in difficult-to-map regions. <i>Cell Genomics</i> , <b>2022</b> , 2, 100129		4
108	Benchmarking challenging small variants with linked and long reads. <i>Cell Genomics</i> , <b>2022</b> , 2, 100128		2
107	Anlinternationally irtual lhackathon to build Lools for the Lanalysis of Estructural Lariants within Lapacies Langing from Loronaviruses to Larates. F1000Research, 2021, 10, 246	3.6	2
106	Shotgun transcriptome, spatial omics, and isothermal profiling of SARS-CoV-2 infection reveals unique host responses, viral diversification, and drug interactions. <i>Nature Communications</i> , <b>2021</b> , 12, 1660	17.4	60
105	muCNV: Genotyping Structural Variants for Population-level Sequencing. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	1
104	Optimized sample selection for cost-efficient long-read population sequencing. <i>Genome Research</i> , <b>2021</b> , 31, 910-918	9.7	2

## (2020-2021)

103	Intronic Haplotypes in the GBA Gene Do Not Predict Age at Diagnosis of Parkinson's Disease. <i>Movement Disorders</i> , <b>2021</b> , 36, 1456-1460	7	2
102	Investigation of product-derived lymphoma following infusion of piggyBac-modified CD19 chimeric antigen receptor T cells. <i>Blood</i> , <b>2021</b> , 138, 1391-1405	2.2	26
101	Towards population-scale long-read sequencing. <i>Nature Reviews Genetics</i> , <b>2021</b> , 22, 572-587	30.1	29
100	Chromosome-scale, haplotype-resolved assembly of human genomes. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 309-312	44.5	44
99	SARS-CoV-2 genomic diversity and the implications for qRT-PCR diagnostics and transmission. <i>Genome Research</i> , <b>2021</b> , 31, 635-644	9.7	20
98	Oligonucleotide capture sequencing of the SARS-CoV-2 genome and subgenomic fragments from COVID-19 individuals. <i>PLoS ONE</i> , <b>2021</b> , 16, e0244468	3.7	8
97	Vulcan: Improved long-read mapping and structural variant calling via dual-mode alignment. <i>GigaScience</i> , <b>2021</b> , 10,	7.6	1
96	High resolution copy number inference in cancer using short-molecule nanopore sequencing. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, e124	20.1	1
95	Rescuing Low Frequency Variants within Intra-Host Viral Populations directly from Oxford Nanopore sequencing data <b>2021</b> ,		3
94	Performance assessment of DNA sequencing platforms in the ABRF Next-Generation Sequencing Study. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 1129-1140	44.5	10
93	PRINCESS: comprehensive detection of haplotype resolved SNVs, SVs, and methylation. <i>Genome Biology</i> , <b>2021</b> , 22, 268	18.3	O
92	Anlinternationallyirtuallhackathon tolbuildltools for thelanalysis of latructurally ariants within lapsecies langing from lateronaviruses to lyertebrates. F1000Research, 2021, 10, 246	3.6	1
91	Hidden biases in germline structural variant detection <i>Genome Biology</i> , <b>2021</b> , 22, 347	18.3	3
90	Nanopore sequencing and the Shasta toolkit enable efficient de novo assembly of eleven human genomes. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 1044-1053	44.5	143
89	A robust benchmark for detection of germline large deletions and insertions. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 1347-1355	44.5	98
88	Major Impacts of Widespread Structural Variation on Gene Expression and Crop Improvement in Tomato. <i>Cell</i> , <b>2020</b> , 182, 145-161.e23	56.2	171
87	Discovery and population genomics of structural variation in a songbird genus. <i>Nature Communications</i> , <b>2020</b> , 11, 3403	17.4	27
86	Targeted nanopore sequencing with Cas9-guided adapter ligation. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 433-4	1β <b>β</b> 5	113

85	Parliament2: Accurate structural variant calling at scale. <i>GigaScience</i> , <b>2020</b> , 9,	7.6	17
84	Shotgun Transcriptome and Isothermal Profiling of SARS-CoV-2 Infection Reveals Unique Host Responses, Viral Diversification, and Drug Interactions <b>2020</b> ,		51
83	Hidden genomic diversity of SARS-CoV-2: implications for qRT-PCR diagnostics and transmission <b>2020</b> ,		13
82	Oligonucleotide capture sequencing of the SARS-CoV-2 genome and subgenomic fragments from COVID-19 individuals <b>2020</b> ,		8
81	Oligonucleotide Capture Sequencing of the SARS-CoV-2 Genome and Subgenomic Fragments from COVID-19 Individuals <b>2020</b> ,		7
80	Simultaneous profiling of chromatin accessibility and methylation on human cell lines with nanopore sequencing. <i>Nature Methods</i> , <b>2020</b> , 17, 1191-1199	21.6	40
79	Complex mosaic structural variations in human fetal brains. <i>Genome Research</i> , <b>2020</b> , 30, 1695-1704	9.7	9
78	Comprehensive analysis of structural variants in breast cancer genomes using single-molecule sequencing. <i>Genome Research</i> , <b>2020</b> , 30, 1258-1273	9.7	25
77	A diploid assembly-based benchmark for variants in the major histocompatibility complex. <i>Nature Communications</i> , <b>2020</b> , 11, 4794	17.4	22
76	PhaseME: Automatic rapid assessment of phasing quality and phasing improvement. <i>GigaScience</i> , <b>2020</b> , 9,	7.6	5
75	Potential applications of nanopore sequencing for forensic analysis. <i>Forensic Science Review</i> , <b>2020</b> , 32, 23-54	1.5	O
74	Evaluation of computational genotyping of structural variation for clinical diagnoses. <i>GigaScience</i> , <b>2019</b> , 8,	7.6	18
73	Ancestral Admixture Is the Main Determinant of Global Biodiversity in Fission Yeast. <i>Molecular Biology and Evolution</i> , <b>2019</b> , 36, 1975-1989	8.3	29
72	Duplication of a domestication locus neutralized a cryptic variant that caused a breeding barrier in tomato. <i>Nature Plants</i> , <b>2019</b> , 5, 471-479	11.5	35
71	Atlas-CNV: a validated approach to call single-exon CNVs in the eMERGESeq gene panel. <i>Genetics in Medicine</i> , <b>2019</b> , 21, 2135-2144	8.1	13
70	Accurate circular consensus long-read sequencing improves variant detection and assembly of a human genome. <i>Nature Biotechnology</i> , <b>2019</b> , 37, 1155-1162	44.5	427
69	A Genocentric Approach to Discovery of Mendelian Disorders. <i>American Journal of Human Genetics</i> , <b>2019</b> , 105, 974-986	11	18
68	RaGOO: fast and accurate reference-guided scaffolding of draft genomes. <i>Genome Biology</i> , <b>2019</b> , 20, 224	18.3	173

## (2017-2019)

67	A strategy for building and using a human reference pangenome. F1000Research, 2019, 8, 1751	3.6	8
66	Combined transcriptome and proteome profiling reveals specific molecular brain signatures for sex, maturation and circalunar clock phase. <i>ELife</i> , <b>2019</b> , 8,	8.9	26
65	Megabase Length Hypermutation Accompanies Human Structural Variation at 17p11.2. <i>Cell</i> , <b>2019</b> , 176, 1310-1324.e10	56.2	34
64	A multi-task convolutional deep neural network for variant calling in single molecule sequencing.  Nature Communications, <b>2019</b> , 10, 998	17.4	63
63	Paragraph: a graph-based structural variant genotyper for short-read sequence data. <i>Genome Biology</i> , <b>2019</b> , 20, 291	18.3	55
62	Approaches to Whole Mitochondrial Genome Sequencing on the Oxford Nanopore MinION. <i>Current Protocols in Human Genetics</i> , <b>2019</b> , 104, e94	3.2	4
61	Structural variant calling: the long and the short of it. <i>Genome Biology</i> , <b>2019</b> , 20, 246	18.3	141
60	Evaluation of the detection of GBA missense mutations and other variants using the Oxford Nanopore MinION. <i>Molecular Genetics &amp; Enomic Medicine</i> , <b>2019</b> , 7, e564	2.3	35
59	Genome-wide patterns of transposon proliferation in an evolutionary young hybrid fish. <i>Molecular Ecology</i> , <b>2019</b> , 28, 1491-1505	5.7	11
58	A strategy for building and using a human reference pangenome. <i>F1000Research</i> , <b>2019</b> , 8, 1751	3.6	2
57	Accurate detection of complex structural variations using single-molecule sequencing. <i>Nature Methods</i> , <b>2018</b> , 15, 461-468	21.6	585
56	Piercing the dark matter: bioinformatics of long-range sequencing and mapping. <i>Nature Reviews Genetics</i> , <b>2018</b> , 19, 329-346	30.1	250
55	Complex rearrangements and oncogene amplifications revealed by long-read DNA and RNA sequencing of a breast cancer cell line. <i>Genome Research</i> , <b>2018</b> , 28, 1126-1135	9.7	74
54	Transient structural variations have strong effects on quantitative traits and reproductive isolation in fission yeast. <i>Nature Communications</i> , <b>2017</b> , 8, 14061	17.4	212
53	GenomeScope: fast reference-free genome profiling from short reads. <i>Bioinformatics</i> , <b>2017</b> , 33, 2202-2	2 <del>9</del> 4	540
52	Copy number increases of transposable elements and protein-coding genes in an invasive fish of hybrid origin. <i>Molecular Ecology</i> , <b>2017</b> , 26, 4712-4724	5.7	17
51	LRSim: A Linked-Reads Simulator Generating Insights for Better Genome Partitioning. <i>Computational and Structural Biotechnology Journal</i> , <b>2017</b> , 15, 478-484	6.8	20
50	DangerTrack: A scoring system to detect difficult-to-assess regions. <i>F1000Research</i> , <b>2017</b> , 6, 443	3.6	6

49	Tools for annotation and comparison of structural variation. F1000Research, 2017, 6, 1795	3.6	11
48	The genomic basis of circadian and circalunar timing adaptations in a midge. <i>Nature</i> , <b>2016</b> , 540, 69-73	50.4	64
47	Phased diploid genome assembly with single-molecule real-time sequencing. <i>Nature Methods</i> , <b>2016</b> , 13, 1050-1054	21.6	1015
46	Chromosomal-Level Assembly of the Asian Seabass Genome Using Long Sequence Reads and Multi-layered Scaffolding. <i>PLoS Genetics</i> , <b>2016</b> , 12, e1005954	6	77
45	The pineapple genome and the evolution of CAM photosynthesis. <i>Nature Genetics</i> , <b>2015</b> , 47, 1435-42	36.3	309
44	Ectodysplasin signalling genes and phenotypic evolution in sculpins (Cottus). <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2015</b> , 282,	4.4	5
43	The Candida albicans Histone Acetyltransferase Hat1 Regulates Stress Resistance and Virulence via Distinct Chromatin Assembly Pathways. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1005218	7.6	33
42	Decreased expression of endogenous feline leukemia virus in cat lymphomas: a case control study. <i>BMC Veterinary Research</i> , <b>2015</b> , 11, 90	2.7	3
41	Teaser: Individualized benchmarking and optimization of read mapping results for NGS data. <i>Genome Biology</i> , <b>2015</b> , 16, 235	18.3	21
40	ADAR2 induces reproducible changes in sequence and abundance of mature microRNAs in the mouse brain. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 12155-68	20.1	38
39	NextGenMap: fast and accurate read mapping in highly polymorphic genomes. <i>Bioinformatics</i> , <b>2013</b> , 29, 2790-1	7.2	246
38	Benefit-of-doubt (BOD) scoring: a sequencing-based method for SNP candidate assessment from high to medium read number data sets. <i>Genomics</i> , <b>2013</b> , 101, 204-9	4.3	
37	Updating benchtop sequencing performance comparison. <i>Nature Biotechnology</i> , <b>2013</b> , 31, 294-6	44.5	255
36	Adenosine deaminases that act on RNA induce reproducible changes in abundance and sequence of embryonic miRNAs. <i>Genome Research</i> , <b>2012</b> , 22, 1468-76	9.7	71
35	Advanced methylome analysis after bisulfite deep sequencing: an example in Arabidopsis. <i>PLoS ONE</i> , <b>2012</b> , 7, e41528	3.7	17
34	Methods developed during the first National Center for Biotechnology Information Structural Variation Codeathon at Baylor College of Medicine. <i>F1000Research</i> ,9, 1141	3.6	
33	The population genomics of structural variation in a songbird genus		2
32	Transient structural variations have strong effects on quantitative traits and reproductive isolation in fission yeast		1

31	Phased Diploid Genome Assembly with Single Molecule Real-Time Sequencing	16
30	GenomeScope: Fast reference-free genome profiling from short reads	5
29	SplitThreader: Exploration and analysis of rearrangements in cancer genomes	8
28	LRSim: a Linked Reads Simulator generating insights for better genome partitioning	1
27	Accurate detection of complex structural variations using single molecule sequencing	33
26	Complex rearrangements and oncogene amplifications revealed by long-read DNA and RNA sequencing of a breast cancer cell line	6
25	Multi-Platform Assessment of DNA Sequencing Performance using Human and Bacterial Reference Genomes in the ABRF Next-Generation Sequencing Study	1
24	Benchmarking challenging small variants with linked and long reads	26
23	SVCollector: Optimized sample selection for cost-efficient long-read population sequencing	2
22	precisionFDA Truth Challenge V2: Calling variants from short- and long-reads in difficult-to-map regions	25
21	Detection of GBA missense mutations and other variants using the Oxford Nanopore MinION	2
20	xAtlas: Scalable small variant calling across heterogeneous next-generation sequencing experiments	15
19	Clairvoyante: a multi-task convolutional deep neural network for variant calling in Single Molecule Sequencin	<b>1</b> 9 11
18	SVCollector: Optimized sample selection for validating and long-read resequencing of structural variants	4
17	Parliament2: Fast Structural Variant Calling Using Optimized Combinations of Callers	12
16	Simultaneous profiling of chromatin accessibility and methylation on human cell lines with nanopore sequencing	15
15	Highly-accurate long-read sequencing improves variant detection and assembly of a human genome	29
14	Fast and accurate reference-guided scaffolding of draft genomes	15

13	Targeted Nanopore Sequencing with Cas9 for studies of methylation, structural variants, and mutations	26
12	Paragraph: A graph-based structural variant genotyper for short-read sequence data	8
11	A robust benchmark for germline structural variant detection	34
10	Efficient de novo assembly of eleven human genomes using PromethION sequencing and a novel nanopore toolkit	29
9	Accurate chromosome-scale haplotype-resolved assembly of human genomes	18
8	Comprehensive analysis of structural variants in breast cancer genomes using single molecule sequencing	3
7	The complete sequence of a human genome	58
6	Towards a Comprehensive Variation Benchmark for Challenging Medically-Relevant Autosomal Genes	8
5	A complete reference genome improves analysis of human genetic variation	9
4	Construction of a new chromosome-scale, long-read reference genome assembly of the Syrian hamster, Mesocricetus auratus	1
3	Truvari: Refined Structural Variant Comparison Preserves Allelic Diversity	1
2	Whole genome sequencing identifies common and rare structural variants contributing to hematologic traits in the NHLBI TOPMed program	1
1	The third international hackathon for applying insights into large-scale genomic composition to use cases in a wide range of organisms. <i>F1000Research</i> ,11, 530	