

# Fritz J Sedlazeck

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/497740/publications.pdf>

Version: 2024-02-01

87  
papers

14,707  
citations

87401

40  
h-index

53065

89  
g-index

149  
all docs

149  
docs citations

149  
times ranked

19128  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate profiling of forensic autosomal STRs using the Oxford Nanopore Technologies MinION device. <i>Forensic Science International: Genetics</i> , 2022, 56, 102629.	1.6	12
2	Assessing reproducibility of inherited variants detected with short-read whole genome sequencing. <i>Genome Biology</i> , 2022, 23, 2.	3.8	18
3	Ultrarapid Nanopore Genome Sequencing in a Critical Care Setting. <i>New England Journal of Medicine</i> , 2022, 386, 700-702.	13.9	116
4	Centers for Mendelian Genomics: A decade of facilitating gene discovery. <i>Genetics in Medicine</i> , 2022, 24, 784-797.	1.1	44
5	Curated variation benchmarks for challenging medically relevant autosomal genes. <i>Nature Biotechnology</i> , 2022, 40, 672-680.	9.4	90
6	Ultra-Rapid Nanopore Whole Genome Genetic Diagnosis of Dilated Cardiomyopathy in an Adolescent With Cardiogenic Shock. <i>Circulation Genomic and Precision Medicine</i> , 2022, 15, CIRCGEN121003591.	1.6	3
7	Fully resolved assembly of <i>Cryptosporidium parvum</i> . <i>GigaScience</i> , 2022, 11, .	3.3	8
8	Rescuing low frequency variants within intra-host viral populations directly from Oxford Nanopore sequencing data. <i>Nature Communications</i> , 2022, 13, 1321.	5.8	11
9	Accelerated identification of disease-causing variants with ultra-rapid nanopore genome sequencing. <i>Nature Biotechnology</i> , 2022, 40, 1035-1041.	9.4	45
10	Towards accurate and reliable resolution of structural variants for clinical diagnosis. <i>Genome Biology</i> , 2022, 23, 68.	3.8	34
11	A complete reference genome improves analysis of human genetic variation. <i>Science</i> , 2022, 376, eabl3533.	6.0	144
12	The complete sequence of a human genome. <i>Science</i> , 2022, 376, 44-53.	6.0	1,222
13	Searching thousands of genomes to classify somatic and novel structural variants using STIX. <i>Nature Methods</i> , 2022, 19, 445-448.	9.0	8
14	PrecisionFDA Truth Challenge V2: Calling variants from short and long reads in difficult-to-map regions. <i>Cell Genomics</i> , 2022, 2, 100129.	3.0	72
15	TOP-LD: A tool to explore linkage disequilibrium with TOPMed whole-genome sequence data. <i>American Journal of Human Genetics</i> , 2022, 109, 1175-1181.	2.6	25
16	Benchmarking challenging small variants with linked and long reads. <i>Cell Genomics</i> , 2022, 2, 100128.	3.0	77
17	Chromosome-scale, haplotype-resolved assembly of human genomes. <i>Nature Biotechnology</i> , 2021, 39, 309-312.	9.4	109
18	SARS-CoV-2 genomic diversity and the implications for qRT-PCR diagnostics and transmission. <i>Genome Research</i> , 2021, 31, 635-644.	2.4	39

#	ARTICLE	IF	CITATIONS
19	An international virtual hackathon to build tools for the analysis of structural variants within a species ranging from coronaviruses to vertebrates. <i>F1000Research</i> , 2021, 10, 246.	0.8	3
20	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> , 2021, 12, 1660.	5.8	132
21	muCNV: genotyping structural variants for population-level sequencing. <i>Bioinformatics</i> , 2021, 37, 2055-2057.	1.8	7
22	Optimized sample selection for cost-efficient long-read population sequencing. <i>Genome Research</i> , 2021, 31, 910-918.	2.4	4
23	Long-read sequencing for diagnosis in the Undiagnosed Diseases Network. <i>Molecular Genetics and Metabolism</i> , 2021, 132, S253-S254.	0.5	1
24	Intronic Haplotypes in the <i>GBA</i> Gene Do Not Predict Age at Diagnosis of Parkinson's Disease. <i>Movement Disorders</i> , 2021, 36, 1456-1460.	2.2	5
25	Investigation of product-derived lymphoma following infusion of <i>piggyBac</i> -modified CD19 chimeric antigen receptor T cells. <i>Blood</i> , 2021, 138, 1391-1405.	0.6	87
26	Towards population-scale long-read sequencing. <i>Nature Reviews Genetics</i> , 2021, 22, 572-587.	7.7	163
27	Oligonucleotide capture sequencing of the SARS-CoV-2 genome and subgenomic fragments from COVID-19 individuals. <i>PLoS ONE</i> , 2021, 16, e0244468.	1.1	20
28	Vulcan: Improved long-read mapping and structural variant calling via dual-mode alignment. <i>GigaScience</i> , 2021, 10, .	3.3	14
29	High resolution copy number inference in cancer using short-molecule nanopore sequencing. <i>Nucleic Acids Research</i> , 2021, 49, e124-e124.	6.5	14
30	Performance assessment of DNA sequencing platforms in the ABRF Next-Generation Sequencing Study. <i>Nature Biotechnology</i> , 2021, 39, 1129-1140.	9.4	69
31	PRINCESS: comprehensive detection of haplotype resolved SNVs, SVs, and methylation. <i>Genome Biology</i> , 2021, 22, 268.	3.8	28
32	An international virtual hackathon to build tools for the analysis of structural variants within a species ranging from coronaviruses to vertebrates. <i>F1000Research</i> , 2021, 10, 246.	0.8	2
33	Hidden biases in germline structural variant detection. <i>Genome Biology</i> , 2021, 22, 347.	3.8	19
34	Simultaneous profiling of chromatin accessibility and methylation on human cell lines with nanopore sequencing. <i>Nature Methods</i> , 2020, 17, 1191-1199.	9.0	133
35	Complex mosaic structural variations in human fetal brains. <i>Genome Research</i> , 2020, 30, 1695-1704.	2.4	21
36	Comprehensive analysis of structural variants in breast cancer genomes using single-molecule sequencing. <i>Genome Research</i> , 2020, 30, 1258-1273.	2.4	72

#	ARTICLE	IF	CITATIONS
37	A diploid assembly-based benchmark for variants in the major histocompatibility complex. <i>Nature Communications</i> , 2020, 11, 4794.	5.8	56
38	PhaseME: Automatic rapid assessment of phasing quality and phasing improvement. <i>GigaScience</i> , 2020, 9, .	3.3	8
39	Nanopore sequencing and the Shasta toolkit enable efficient de novo assembly of eleven human genomes. <i>Nature Biotechnology</i> , 2020, 38, 1044-1053.	9.4	344
40	A robust benchmark for detection of germline large deletions and insertions. <i>Nature Biotechnology</i> , 2020, 38, 1347-1355.	9.4	233
41	Major Impacts of Widespread Structural Variation on Gene Expression and Crop Improvement in Tomato. <i>Cell</i> , 2020, 182, 145-161.e23.	13.5	464
42	Discovery and population genomics of structural variation in a songbird genus. <i>Nature Communications</i> , 2020, 11, 3403.	5.8	83
43	Targeted nanopore sequencing with Cas9-guided adapter ligation. <i>Nature Biotechnology</i> , 2020, 38, 433-438.	9.4	286
44	Parliament2: Accurate structural variant calling at scale. <i>GigaScience</i> , 2020, 9, .	3.3	51
45	Potential applications of nanopore sequencing for forensic analysis. <i>Forensic Science Review</i> , 2020, 32, 23-54.	0.6	5
46	Accurate circular consensus long-read sequencing improves variant detection and assembly of a human genome. <i>Nature Biotechnology</i> , 2019, 37, 1155-1162.	9.4	1,010
47	A Genocentric Approach to Discovery of Mendelian Disorders. <i>American Journal of Human Genetics</i> , 2019, 105, 974-986.	2.6	30
48	RaGOO: fast and accurate reference-guided scaffolding of draft genomes. <i>Genome Biology</i> , 2019, 20, 224.	3.8	469
49	Evaluation of computational genotyping of structural variation for clinical diagnoses. <i>GigaScience</i> , 2019, 8, .	3.3	36
50	Ancestral Admixture Is the Main Determinant of Global Biodiversity in Fission Yeast. <i>Molecular Biology and Evolution</i> , 2019, 36, 1975-1989.	3.5	50
51	Duplication of a domestication locus neutralized a cryptic variant that caused a breeding barrier in tomato. <i>Nature Plants</i> , 2019, 5, 471-479.	4.7	66
52	Atlas-CNV: a validated approach to call single-exon CNVs in the eMERGESeq gene panel. <i>Genetics in Medicine</i> , 2019, 21, 2135-2144.	1.1	19
53	Megabase Length Hypermutation Accompanies Human Structural Variation at 17p11.2. <i>Cell</i> , 2019, 176, 1310-1324.e10.	13.5	73
54	A multi-task convolutional deep neural network for variant calling in single molecule sequencing. <i>Nature Communications</i> , 2019, 10, 998.	5.8	102

#	ARTICLE	IF	CITATIONS
55	Paragraph: a graph-based structural variant genotyper for short-read sequence data. <i>Genome Biology</i> , 2019, 20, 291.	3.8	104
56	Approaches to Whole Mitochondrial Genome Sequencing on the Oxford Nanopore MinION. <i>Current Protocols in Human Genetics</i> , 2019, 104, e94.	3.5	13
57	Structural variant calling: the long and the short of it. <i>Genome Biology</i> , 2019, 20, 246.	3.8	409
58	Evaluation of the detection of <i>GBA</i> missense mutations and other variants using the Oxford Nanopore MinION. <i>Molecular Genetics &amp; Genomic Medicine</i> , 2019, 7, e564.	0.6	65
59	Genome-wide patterns of transposon proliferation in an evolutionary young hybrid fish. <i>Molecular Ecology</i> , 2019, 28, 1491-1505.	2.0	18
60	A strategy for building and using a human reference pangenome. <i>F1000Research</i> , 2019, 8, 1751.	0.8	5
61	A strategy for building and using a human reference pangenome. <i>F1000Research</i> , 2019, 8, 1751.	0.8	14
62	Combined transcriptome and proteome profiling reveals specific molecular brain signatures for sex, maturation and circalunar clock phase. <i>ELife</i> , 2019, 8, .	2.8	51
63	Accurate detection of complex structural variations using single-molecule sequencing. <i>Nature Methods</i> , 2018, 15, 461-468.	9.0	1,175
64	Piercing the dark matter: bioinformatics of long-range sequencing and mapping. <i>Nature Reviews Genetics</i> , 2018, 19, 329-346.	7.7	395
65	Complex rearrangements and oncogene amplifications revealed by long-read DNA and RNA sequencing of a breast cancer cell line. <i>Genome Research</i> , 2018, 28, 1126-1135.	2.4	142
66	Transient structural variations have strong effects on quantitative traits and reproductive isolation in fission yeast. <i>Nature Communications</i> , 2017, 8, 14061.	5.8	472
67	GenomeScope: fast reference-free genome profiling from short reads. <i>Bioinformatics</i> , 2017, 33, 2202-2204.	1.8	1,183
68	Copy number increases of transposable elements and protein-coding genes in an invasive fish of hybrid origin. <i>Molecular Ecology</i> , 2017, 26, 4712-4724.	2.0	28
69	LRSim: A Linked-Reads Simulator Generating Insights for Better Genome Partitioning. <i>Computational and Structural Biotechnology Journal</i> , 2017, 15, 478-484.	1.9	42
70	DangerTrack: A scoring system to detect difficult-to-assess regions. <i>F1000Research</i> , 2017, 6, 443.	0.8	10
71	Tools for annotation and comparison of structural variation. <i>F1000Research</i> , 2017, 6, 1795.	0.8	26
72	Chromosomal-Level Assembly of the Asian Seabass Genome Using Long Sequence Reads and Multi-layered Scaffolding. <i>PLoS Genetics</i> , 2016, 12, e1005954.	1.5	105

#	ARTICLE	IF	CITATIONS
73	The genomic basis of circadian and circalunar timing adaptations in a midge. <i>Nature</i> , 2016, 540, 69-73.	13.7	96
74	Phased diploid genome assembly with single-molecule real-time sequencing. <i>Nature Methods</i> , 2016, 13, 1050-1054.	9.0	1,658
75	Ectodysplasin signalling genes and phenotypic evolution in sculpins ( <i>Cottus</i> ). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150746.	1.2	9
76	The <i>Candida albicans</i> Histone Acetyltransferase Hat1 Regulates Stress Resistance and Virulence via Distinct Chromatin Assembly Pathways. <i>PLoS Pathogens</i> , 2015, 11, e1005218.	2.1	48
77	Decreased expression of endogenous feline leukemia virus in cat lymphomas: a case control study. <i>BMC Veterinary Research</i> , 2015, 11, 90.	0.7	8
78	Teaser: Individualized benchmarking and optimization of read mapping results for NGS data. <i>Genome Biology</i> , 2015, 16, 235.	3.8	25
79	The pineapple genome and the evolution of CAM photosynthesis. <i>Nature Genetics</i> , 2015, 47, 1435-1442.	9.4	472
80	ADAR2 induces reproducible changes in sequence and abundance of mature microRNAs in the mouse brain. <i>Nucleic Acids Research</i> , 2014, 42, 12155-12168.	6.5	42
81	NextGenMap: fast and accurate read mapping in highly polymorphic genomes. <i>Bioinformatics</i> , 2013, 29, 2790-2791.	1.8	408
82	Benefit-of-doubt (BOD) scoring: A sequencing-based method for SNP candidate assessment from high to medium read number data sets. <i>Genomics</i> , 2013, 101, 204-209.	1.3	0
83	Updating benchtop sequencing performance comparison. <i>Nature Biotechnology</i> , 2013, 31, 294-296.	9.4	423
84	Adenosine deaminases that act on RNA induce reproducible changes in abundance and sequence of embryonic miRNAs. <i>Genome Research</i> , 2012, 22, 1468-1476.	2.4	80
85	Advanced Methylome Analysis after Bisulfite Deep Sequencing: An Example in <i>Arabidopsis</i> . <i>PLoS ONE</i> , 2012, 7, e41528.	1.1	19
86	Methods developed during the first National Center for Biotechnology Information Structural Variation Codeathon at Baylor College of Medicine. <i>F1000Research</i> , 0, 9, 1141.	0.8	0
87	The third international hackathon for applying insights into large-scale genomic composition to use cases in a wide range of organisms. <i>F1000Research</i> , 0, 11, 530.	0.8	1