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**DELLY: structural variant discovery by integrated paired-end and split-read analysis**

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1403	MMBIRFinder: A Tool to Detect Microhomology-Mediated Break-Induced Replication. <b>2015</b> , 12, 799-806	6
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1393	Making the difference: integrating structural variation detection tools. <b>2015</b> , 16, 852-64		36
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1388	Similar Mutation Rates but Highly Diverse Mutation Spectra in Ascomycete and Basidiomycete Yeasts. <b>2016</b> , 8, 3815-3821		26
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1385	Resolving complex structural genomic rearrangements using a randomized approach. <b>2016</b> , 17, 126		24
1384	Chromosomal Translocations in the Parasite <i>Leishmania</i> by a MRE11/RAD50-Independent Microhomology-Mediated End Joining Mechanism. <b>2016</b> , 12, e1006117		19
1383	Pathoadaptive Mutations of <i>Escherichia coli</i> K1 in Experimental Neonatal Systemic Infection. <b>2016</b> , 11, e0166793		6
1382	deBGA: read alignment with de Bruijn graph-based seed and extension. <i>Bioinformatics</i> , <b>2016</b> , 32, 3224-3232		54
1381	Sparse signal recovery methods for variant detection in next-generation sequencing data. <b>2016</b> ,		3
1380	Identification of ZCCHC8 as fusion partner of ROS1 in a case of congenital glioblastoma multiforme with a t(6;12)(q21;q24.3). <b>2016</b> , 55, 677-87		22

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1377	Concod: Accurate consensus-based approach of calling deletions from high-throughput sequencing data. <b>2016</b> ,	1
1376	Efficient generation of transgenic cattle using the DNA transposon and their analysis by next-generation sequencing. <b>2016</b> , 6, 27185	16
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1373	A high-precision shallow Convolutional Neural Network based strategy for the detection of Genomic Deletions. <b>2016</b> ,	0
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1368	Application of whole genome shotgun sequencing for detection and characterization of genetically modified organisms and derived products. <b>2016</b> , 408, 4595-614	34
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1366	From Wet-Lab to Variations: Concordance and Speed of Bioinformatics Pipelines for Whole Genome and Whole Exome Sequencing. <b>2016</b> , 37, 1263-1271	33
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1333	Identification of haplotypes at the Rsv4 genomic region in soybean associated with durable resistance to soybean mosaic virus. <b>2016</b> , 129, 453-68		28
1332	Joint detection of copy number variations in parent-offspring trios. <i>Bioinformatics</i> , <b>2016</b> , 32, 1130-7	7.2	8
1331	Manta: rapid detection of structural variants and indels for germline and cancer sequencing applications. <i>Bioinformatics</i> , <b>2016</b> , 32, 1220-2	7.2	695
1330	COSMOS: accurate detection of somatic structural variations through asymmetric comparison between tumor and normal samples. <b>2016</b> , 44, e78		3
1329	Structural variation detection using next-generation sequencing data: A comparative technical review. <b>2016</b> , 102, 36-49		89
1328	Sprites: detection of deletions from sequencing data by re-aligning split reads. <i>Bioinformatics</i> , <b>2016</b> , 32, 1788-96	7.2	13
1327	Engineered Nucleases and Trinucleotide Repeat Diseases. <b>2016</b> , 139-159		
1326	Active chromatin and transcription play a key role in chromosome partitioning into topologically associating domains. <b>2016</b> , 26, 70-84		225

1325	PopIns: population-scale detection of novel sequence insertions. <i>Bioinformatics</i> , <b>2016</b> , 32, 961-7	7.2	21
1324	HySA: a Hybrid Structural variant Assembly approach using next-generation and single-molecule sequencing technologies. <b>2017</b> , 27, 793-800		20
1323	Comprehensive Profiling of the Androgen Receptor in Liquid Biopsies from Castration-resistant Prostate Cancer Reveals Novel Intra-AR Structural Variation and Splice Variant Expression Patterns. <b>2017</b> , 72, 192-200		80
1322	Transient structural variations have strong effects on quantitative traits and reproductive isolation in fission yeast. <b>2017</b> , 8, 14061		212
1321	Genomic hallmarks of localized, non-indolent prostate cancer. <b>2017</b> , 541, 359-364		320
1320	Germline BRCA2 mutations drive prostate cancers with distinct evolutionary trajectories. <b>2017</b> , 8, 13671		128
1319	Whole-genome analysis of introgressive hybridization and characterization of the bovine legacy of Mongolian yaks. <b>2017</b> , 49, 470-475		67
1318	Recurrent GNAQ mutations in anastomosing hemangiomas. <b>2017</b> , 30, 722-727		36
1317	Deletion of 2.7kb near HOXD3 in an Arabian horse with occipitoatlantoaxial malformation. <b>2017</b> , 48, 287-294		12
1316	Germline variants in familial pituitary tumour syndrome genes are common in young patients and families with additional endocrine tumours. <b>2017</b> , 176, 635-644		22
1315	Re-sequencing transgenic plants revealed rearrangements at T-DNA inserts, and integration of a short T-DNA fragment, but no increase of small mutations elsewhere. <b>2017</b> , 36, 493-504		26
1314	Genomic Rearrangements in Considered as Quantitative Traits. <b>2017</b> , 205, 1425-1441		15
1313	Asymmetric subgenome selection and cis-regulatory divergence during cotton domestication. <b>2017</b> , 49, 579-587		229
1312	Genomic signatures of adaptation to wine biological ageing conditions in biofilm-forming flor yeasts. <b>2017</b> , 26, 2150-2166		29
1311	Progenitor strain introduction of <i>Mycobacterium bovis</i> at the wildlife-livestock interface can lead to clonal expansion of the disease in a single ecosystem. <b>2017</b> , 51, 235-238		24
1310	PGBD5 promotes site-specific oncogenic mutations in human tumors. <b>2017</b> , 49, 1005-1014		40
1309	Mutational landscape of metastatic cancer revealed from prospective clinical sequencing of 10,000 patients. <b>2017</b> , 23, 703-713		1638
1308	SVPV: a structural variant prediction viewer for paired-end sequencing datasets. <i>Bioinformatics</i> , <b>2017</b> , 33, 2032-2033	7.2	7

1307	Single-cell template strand sequencing by Strand-seq enables the characterization of individual homologs. <b>2017</b> , 12, 1151-1176	49
1306	High-density lipoprotein receptor SCARB1 is required for carotenoid coloration in birds. <b>2017</b> , 114, 5219-5224	66
1305	Next-generation sequencing as a tool for breakpoint analysis in rearrangements of the globin gene clusters. <b>2017</b> , 39 Suppl 1, 111-120	13
1304	Genomic profiling of pelvic genital type leiomyosarcoma in a woman with a germline :c.1100delC mutation and a concomitant diagnosis of metastatic invasive ductal breast carcinoma. <b>2017</b> , 3,	6
1303	The Sequences of 1504 Mutants in the Model Rice Variety Kitaake Facilitate Rapid Functional Genomic Studies. <b>2017</b> , 29, 1218-1231	80
1302	Toolkit for automated and rapid discovery of structural variants. <b>2017</b> , 129, 3-7	16
1301	Semi-automated cancer genome analysis using high-performance computing. <b>2017</b> , 38, 1325-1335	7
1300	Genomic profiling of breast secretory carcinomas reveals distinct genetics from other breast cancers and similarity to mammary analog secretory carcinomas. <b>2017</b> , 30, 1086-1099	41
1299	Genomic analysis of oesophageal squamous-cell carcinoma identifies alcohol drinking-related mutation signature and genomic alterations. <b>2017</b> , 8, 15290	109
1298	Whole-genome sequencing of monozygotic twins discordant for schizophrenia indicates multiple genetic risk factors for schizophrenia. <b>2017</b> , 44, 295-306	30
1297	Genotyping inversions and tandem duplications. <i>Bioinformatics</i> , <b>2017</b> , 33, 4015-4023	7.2 10
1296	Genetic diversity of next generation antimalarial targets: A baseline for drug resistance surveillance programmes. <b>2017</b> , 7, 174-180	10
1295	Enhancing knowledge discovery from cancer genomics data with Galaxy. <b>2017</b> , 6, 1-13	6
1294	Microevolution of Serial Clinical Isolates of var. and. <b>2017</b> , 8,	44
1293	The comparative landscape of duplications in <i>Heliconius melpomene</i> and <i>Heliconius cydno</i> . <b>2017</b> , 118, 78-87	10
1292	Loci associated with skin pigmentation identified in African populations. <b>2017</b> , 358,	179
1291	Lightning-fast genome variant detection with GROM. <b>2017</b> , 6, 1-7	9
1290	Accurate and comprehensive analysis of single nucleotide variants and large deletions of the human mitochondrial genome in DNA and single cells. <b>2017</b> , 25, 1229-1236	9

1289	Proteogenomic Investigation of Strain Variation in Clinical Mycobacterium tuberculosis Isolates. <b>2017</b> , 16, 3841-3851	15
1288	Genomic Investigation of Balanced Chromosomal Rearrangements in Patients with Abnormal Phenotypes. <b>2017</b> , 8, 187-194	4
1287	Rapid Discovery of De Novo Deleterious Mutations in Cattle Enhances the Value of Livestock as Model Species. <b>2017</b> , 7, 11466	36
1286	Mitochondrial mutations drive prostate cancer aggression. <b>2017</b> , 8, 656	66
1285	Genome-wide reconstruction of complex structural variants using read clouds. <b>2017</b> , 14, 915-920	65
1284	The whole-genome landscape of medulloblastoma subtypes. <b>2017</b> , 547, 311-317	472
1283	Bioinformatics Data Analysis of Next-Generation Sequencing Data from Heterogeneous Tumor Samples. <b>2017</b> , 1633, 185-192	0
1282	Genetic differences between willow warbler migratory phenotypes are few and cluster in large haplotype blocks. <b>2017</b> , 1, 155-168	46
1281	Integrative whole-genome sequence analysis reveals roles of regulatory mutations in BCL6 and BCL2 in follicular lymphoma. <b>2017</b> , 7, 7040	12
1280	Catastrophic Unbalanced Genome Rearrangements Cause Somatic Loss of Berry Color in Grapevine. <b>2017</b> , 175, 786-801	53
1279	Genomic Analysis of Pigmented Epithelioid Melanocytomas Reveals Recurrent Alterations in PRKAR1A, and PRKCA Genes. <b>2017</b> , 41, 1333-1346	59
1278	Pancreatic intraductal tubulopapillary neoplasm is genetically distinct from intraductal papillary mucinous neoplasm and ductal adenocarcinoma. <b>2017</b> , 30, 1760-1772	39
1277	Genetic insights into juvenile idiopathic arthritis derived from deep whole genome sequencing. <b>2017</b> , 7, 2657	8
1276	Homologous Recombination Deficiency and Platinum-Based Therapy Outcomes in Advanced Breast Cancer. <b>2017</b> , 23, 7521-7530	82
1275	MYC-containing amplicons in acute myeloid leukemia: genomic structures, evolution, and transcriptional consequences. <b>2017</b> ,	1
1274	GRIDSS: sensitive and specific genomic rearrangement detection using positional de Bruijn graph assembly. <b>2017</b> , 27, 2050-2060	127
1273	Mapping and phasing of structural variation in patient genomes using nanopore sequencing. <b>2017</b> , 8, 1326	191
1272	Comparing sequencing assays and human-machine analyses in actionable genomics for glioblastoma. <b>2017</b> , 3, e164	27

1271	Genomics of Parallel Experimental Evolution in <i>Drosophila</i> . <b>2017</b> , 34, 831-842		45
1270	Pysim-sv: a package for simulating structural variation data with GC-biases. <b>2017</b> , 18, 53		10
1269	Hi-C as a tool for precise detection and characterisation of chromosomal rearrangements and copy number variation in human tumours. <b>2017</b> , 18, 125		96
1268	Discovery of large genomic inversions using long range information. <b>2017</b> , 18, 65		14
1267	Variability among Cucurbitaceae species (melon, cucumber and watermelon) in a genomic region containing a cluster of NBS-LRR genes. <b>2017</b> , 18, 138		12
1266	Comprehensive whole genome sequence analyses yields novel genetic and structural insights for Intellectual Disability. <b>2017</b> , 18, 403		9
1265	Comprehensive detection of germline variants by MSK-IMPACT, a clinical diagnostic platform for solid tumor molecular oncology and concurrent cancer predisposition testing. <b>2017</b> , 10, 33		64
1264	Genome-wide copy number variation in the bovine genome detected using low coverage sequence of popular beef breeds. <b>2017</b> , 48, 141-150		22
1263	PSE-HMM: genome-wide CNV detection from NGS data using an HMM with Position-Specific Emission probabilities. <b>2016</b> , 18, 30		0
1262	Identification of complex genomic rearrangements in cancers using CouGaR. <b>2017</b> , 27, 107-117		21
1261	Genomic profiling of malignant peritoneal mesothelioma reveals recurrent alterations in epigenetic regulatory genes BAP1, SETD2, and DDX3X. <b>2017</b> , 30, 246-254		63
1260	Genome-wide genetic variation discovery in Chinese Taihu pig breeds using next generation sequencing. <b>2017</b> , 48, 38-47		15
1259	Population genomics identifies the origin and signatures of selection of Korean weedy rice. <b>2017</b> , 15, 357-366		32
1258	PSSV: a novel pattern-based probabilistic approach for somatic structural variation identification. <i>Bioinformatics</i> , <b>2017</b> , 33, 177-183	7.2	2
1257	novoBreak: local assembly for breakpoint detection in cancer genomes. <b>2017</b> , 14, 65-67		67
1256	Pan-cancer analysis of somatic copy-number alterations implicates IRS4 and IGF2 in enhancer hijacking. <b>2017</b> , 49, 65-74		220
1255	Seeksv: an accurate tool for somatic structural variation and virus integration detection. <i>Bioinformatics</i> , <b>2017</b> , 33, 184-191	7.2	49
1254	A recurrence-based approach for validating structural variation using long-read sequencing technology. <b>2017</b> , 6, 1-9		13



1253	An Efficient Algorithm for Identifying Genomic Structural Inversion with Wide-spectrum of Length. <b>2017,</b>	
1252	Informatics for cancer immunotherapy. <b>2017, 28, xii56-xii73</b>	11
1251	CNVcaller: highly efficient and widely applicable software for detecting copy number variations in large populations. <b>2017, 6, 1-12</b>	66
1250	Detecting large deletions at base pair level by combining split read and paired read data. <b>2017, 18, 413</b>	2
1249	Detecting chromosomal structural variation using jaccard distance and parallel architecture. <b>2017,</b>	2
1248	. <b>2017,</b>	0
1247	Sparse diploid spatial biosignal recovery for genomic variation detection. <b>2017,</b>	0
1246	Inversion detection using PacBio long reads. <b>2017,</b>	2
1245	Concurrent MMBIRFinder. <b>2017,</b>	
1244	XCAVATOR: accurate detection and genotyping of copy number variants from second and third generation whole-genome sequencing experiments. <b>2017, 18, 747</b>	17
1243	CNNdel: Calling Structural Variations on Low Coverage Data Based on Convolutional Neural Networks. <b>2017, 2017, 6375059</b>	2
1242	Germline and somatic mutations in cortical malformations: Molecular defects in Argentinean patients with neuronal migration disorders. <b>2017, 12, e0185103</b>	14
1241	Genome-wide analysis of structural variants reveals genetic differences in Chinese pigs. <b>2017, 12, e0186721</b>	5
1240	Analysis of large versus small dogs reveals three genes on the canine X chromosome associated with body weight, muscling and back fat thickness. <b>2017, 13, e1006661</b>	27
1239	Whole-genome analysis of papillary kidney cancer finds significant noncoding alterations. <b>2017, 13, e1006685</b>	26
1238	Identification of copy number variation in French dairy and beef breeds using next-generation sequencing. <b>2017, 49, 77</b>	21
1237	A de novo missense mutation of FGFR2 causes facial dysplasia syndrome in Holstein cattle. <b>2017, 18, 74</b>	7
1236	ReMixT: clone-specific genomic structure estimation in cancer. <b>2017, 18, 140</b>	18

1235	Meiotic crossovers are associated with open chromatin and enriched with Stowaway transposons in potato. <b>2017</b> , 18, 203	31
1234	CLOVE: classification of genomic fusions into structural variation events. <b>2017</b> , 18, 346	4
1233	Detection and quantification of mitochondrial DNA deletions from next-generation sequence data. <b>2017</b> , 18, 407	19
1232	Comparative Genomics of an Unusual Biogeographic Disjunction in the Cotton Tribe (Gossypieae) Yields Insights into Genome Downsizing. <b>2017</b> , 9, 3328-3344	13
1231	Plasma DNA-based molecular diagnosis, prognostication, and monitoring of patients with fusion-positive sarcomas. <b>2017</b> , 2017,	24
1230	MSeq-CNV: accurate detection of Copy Number Variation from Sequencing of Multiple samples. <b>2018</b> , 8, 4009	7
1229	Copy Number Variation/Chromosomal Aberration. <b>2018</b> , 129-135	
1228	MYC-containing amplicons in acute myeloid leukemia: genomic structures, evolution, and transcriptional consequences. <b>2018</b> , 32, 2152-2166	50
1227	HiPiler: Visual Exploration of Large Genome Interaction Matrices with Interactive Small Multiples. <b>2018</b> , 24, 522-531	21
1226	A recurrent kinase domain mutation in PRKCA defines chordoid glioma of the third ventricle. <b>2018</b> , 9, 810	42
1225	The landscape of genomic alterations across childhood cancers. <b>2018</b> , 555, 321-327	603
1224	Uncovering the genetic lesions underlying the most severe form of Hirschsprung disease by whole-genome sequencing. <b>2018</b> , 26, 818-826	14
1223	Whole genome sequencing of 91 multiplex schizophrenia families reveals increased burden of rare, exonic copy number variation in schizophrenia probands and genetic heterogeneity. <b>2018</b> , 197, 337-345	10
1222	EWSR1-NFATC2 gene fusion in a soft tissue tumor with epithelioid round cell morphology and abundant stroma: a case report and review of the literature. <b>2018</b> , 81, 281-290	16
1221	Genomic diversity in ochratoxigenic and non ochratoxigenic strains of <i>Aspergillus carbonarius</i> . <b>2018</b> , 8, 5439	11
1220	Utility of pooled sequencing for association mapping in nonmodel organisms. <b>2018</b> , 18, 825-837	29
1219	Very short DNA segments can be detected and handled by the repair machinery during germline chromothriptic chromosome reassembly. <b>2018</b> , 39, 709-716	15
1218	Whole-exome mutational and transcriptional landscapes of combined hepatocellular cholangiocarcinoma and intrahepatic cholangiocarcinoma reveal molecular diversity. <b>2018</b> , 1864, 2360-2368	28

1217	Whole Genome Sequencing-Based Discovery of Structural Variants in Glioblastoma. <b>2018</b> , 1741, 1-29		10
1216	Genome-wide analysis of multi- and extensively drug-resistant Mycobacterium tuberculosis. <b>2018</b> , 50, 307-316		160
1215	The Hidden Genomic and Transcriptomic Plasticity of Giant Marker Chromosomes in Cancer. <b>2018</b> , 208, 951-961		10
1214	Use of deep whole-genome sequencing data to identify structure risk variants in breast cancer susceptibility genes. <b>2018</b> , 27, 853-859		15
1213	Forward genetics screen coupled with whole-genome resequencing identifies novel gene targets for improving heterologous enzyme production in <i>Aspergillus niger</i> . <b>2018</b> , 102, 1797-1807		9
1212	Identifying structural variants using linked-read sequencing data. <i>Bioinformatics</i> , <b>2018</b> , 34, 353-360	7.2	36
1211	Computational identification of micro-structural variations and their proteogenomic consequences in cancer. <i>Bioinformatics</i> , <b>2018</b> , 34, 1672-1681	7.2	4
1210	Detecting Somatic Mutations in Normal Cells. <b>2018</b> , 34, 545-557		53
1209	FusorSV: an algorithm for optimally combining data from multiple structural variation detection methods. <b>2018</b> , 19, 38		28
1208	SQUID: transcriptomic structural variation detection from RNA-seq. <b>2018</b> , 19, 52		14
1207	Generic accelerated sequence alignment in SeqAn using vectorization and multi-threading. <i>Bioinformatics</i> , <b>2018</b> , 34, 3437-3445	7.2	17
1206	Novel sequences, structural variations and gene presence variations of Asian cultivated rice. <b>2018</b> , 5, 180079		10
1205	An analytical framework for whole-genome sequence association studies and its implications for autism spectrum disorder. <b>2018</b> , 50, 727-736		156
1204	Accurate detection of complex structural variations using single-molecule sequencing. <b>2018</b> , 15, 461-468		585
1203	Mutations in Mitochondrial DNA From Pancreatic Ductal Adenocarcinomas Associate With Survival Times of Patients and Accumulate as Tumors Progress. <b>2018</b> , 154, 1620-1624.e5		15
1202	Bioinformatics Analysis for Cell-Free Tumor DNA Sequencing Data. <b>2018</b> , 1754, 67-95		11
1201	SvABA: genome-wide detection of structural variants and indels by local assembly. <b>2018</b> , 28, 581-591		149
1200	Genome-wide somatic variant calling using localized colored de Bruijn graphs. <b>2018</b> , 1, 20		51

1199	Allelic decomposition and exact genotyping of highly polymorphic and structurally variant genes. <b>2018</b> , 9, 828	31
1198	Laboratory evolution reveals regulatory and metabolic trade-offs of glycerol utilization in <i>Saccharomyces cerevisiae</i> . <b>2018</b> , 47, 73-82	33
1197	Finding small somatic structural variants in exome sequencing data: a machine learning approach. <b>2018</b> , 33, 1145-1158	1
1196	Diagnostic application of a capture based NGS test for the concurrent detection of variants in sequence and copy number as well as LOH. <b>2018</b> , 93, 545-556	10
1195	Whole-genome sequencing of chronic lymphocytic leukaemia reveals distinct differences in the mutational landscape between IgHV and IgHV subgroups. <b>2018</b> , 32, 332-342	30
1194	An Ovarian Adenocarcinoma With Combined Low-grade Serous and Mesonephric Morphologies Suggests a Müllerian Origin for Some Mesonephric Carcinomas. <b>2018</b> , 37, 448-459	25
1193	Whole genome amplification and sequencing of a <i>Daphnia</i> resting egg. <b>2018</b> , 18, 118-127	10
1192	Atypical fibroxanthoma and pleomorphic dermal sarcoma harbor frequent NOTCH1/2 and FAT1 mutations and similar DNA copy number alteration profiles. <b>2018</b> , 31, 418-428	38
1191	Measuring mutation accumulation in single human adult stem cells by whole-genome sequencing of organoid cultures. <b>2018</b> , 13, 59-78	33
1190	Molecular characterization of metastatic pancreatic neuroendocrine tumors (PNETs) using whole-genome and transcriptome sequencing. <b>2018</b> , 4,	20
1189	Genomic structural variations lead to dysregulation of important coding and non-coding RNA species in dilated cardiomyopathy. <b>2018</b> , 10, 107-120	29
1188	Adenomatoid tumors of the male and female genital tract are defined by TRAF7 mutations that drive aberrant NF- $\kappa$ B pathway activation. <b>2018</b> , 31, 660-673	42
1187	Frequent GNAQ and GNA14 Mutations in Hepatic Small Vessel Neoplasm. <b>2018</b> , 42, 1201-1207	34
1186	High-resolution architecture and partner genes of rearrangements in lymphoma with DLBCL morphology. <b>2018</b> , 2, 2755-2765	38
1185	An Exome-seq Based Tool for Mapping and Selection of Candidate Genes in Maize Deletion Mutants. <b>2018</b> , 16, 439-450	3
1184	Predicting Local Inversions Using Rectangle Clustering and Representative Rectangle Prediction. <b>2018</b> ,	2
1183	rCANID: read Clustering and Assembly-based Novel Insertion Detection tool. <b>2018</b> ,	
1182	Aggressive embryonal rhabdomyosarcoma in a 3-month-old boy: A clinical and molecular analysis. <b>2018</b> , 35, 407-414	

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1179	Correcting genomic deletion calls with complex boundaries from next generation sequencing data. 2018,	
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1176	Structural Variant Prediction in Extended Pedigrees Through Sparse Negative Binomial Genome Signal Recovery. 2018, 2018, 1311-1314	
1175	Genome Dynamics during Environmental Adaptation Reveal Strain-Specific Differences in Gene Copy Number Variation, Karyotype Instability, and Telomeric Amplification. 2018, 9,	46
1174	The genomic basis of adaptation to calcareous and siliceous soils in Arabidopsis lyrata. 2018, 27, 5088-5103	10
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1172	Integrated Genomic, Epigenomic, and Expression Analyses of Ovarian Cancer Cell Lines. 2018, 25, 2617-2633	49
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1169	Identification of Genes Associated With Hirschsprung Disease, Based on Whole-Genome Sequence Analysis, and Potential Effects on Enteric Nervous System Development. 2018, 155, 1908-1922.e5	38
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1167	Computational Tools for Population Genomics. 2018, 127-160	2
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1164	Advances in Next-Generation Sequencing Bioinformatics for Clinical Diagnostics: Taking Precision Oncology to the Next Level. 2018, 1, 149-166	1

1163	Molecular Evolution of Early-Onset Prostate Cancer Identifies Molecular Risk Markers and Clinical Trajectories. <b>2018</b> , 34, 996-1011.e8	89
1162	Genome-Informed Targeted Therapy for Osteosarcoma. <b>2019</b> , 9, 46-63	130
1161	A non-coding region near controls head colour polymorphism in the Gouldian finch. <b>2018</b> , 285,	21
1160	Aristaless Controls Butterfly Wing Color Variation Used in Mimicry and Mate Choice. <b>2018</b> , 28, 3469-3474.e4	45
1159	Comparative Genomics of S and L Morphotypes Yield Insights into Niche Adaptation. <b>2018</b> , 8, 3915-3930	13
1158	STIM1 R304W causes muscle degeneration and impaired platelet activation in mice. <b>2018</b> , 76, 87-100	15
1157	Characterization of Nigerian breast cancer reveals prevalent homologous recombination deficiency and aggressive molecular features. <b>2018</b> , 9, 4181	45
1156	Functional and evolutionary genomic inferences in through genome and population sequencing of American and European aspen. <b>2018</b> , 115, E10970-E10978	38
1155	Aberrant expression impacts the pan-cancer genomic landscape. <b>2018</b> , 28, 1611-1620	19
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1153	SV-plaudit: A cloud-based framework for manually curating thousands of structural variants. <b>2018</b> , 7,	20
1152	FNBtools: A Software to Identify Homozygous Lesions in Deletion Mutant Populations. <b>2018</b> , 9, 976	6
1151	TranSurVeyor: an improved database-free algorithm for finding non-reference transpositions in high-throughput sequencing data. <b>2018</b> , 46, e122	9
1150	Somatic inactivating PTPRJ mutations and dysregulated pathways identified in canine malignant melanoma by integrated comparative genomic analysis. <b>2018</b> , 14, e1007589	30
1149	Integrative detection and analysis of structural variation in cancer genomes. <b>2018</b> , 50, 1388-1398	147
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1146	Mining for Structural Variations in Next-Generation Sequencing Data. <b>2018</b> ,	

1145	Jointly aligning a group of DNA reads improves accuracy of identifying large deletions. <b>2018</b> , 46, e18	1
1144	The genomic landscape of TERT promoter wildtype-IDH wildtype glioblastoma. <b>2018</b> , 9, 2087	78
1143	Combining probabilistic alignments with read pair information improves accuracy of split-alignments. <i>Bioinformatics</i> , <b>2018</b> , 34, 3631-3637	7-2
1142	Organoid Profiling Identifies Common Responders to Chemotherapy in Pancreatic Cancer. <b>2018</b> , 8, 1112-1129	394
1141	Genomic profiling of metaplastic breast carcinomas reveals genetic heterogeneity and relationship to ductal carcinoma. <b>2018</b> , 31, 1661-1674	45
1140	Complex rearrangements and oncogene amplifications revealed by long-read DNA and RNA sequencing of a breast cancer cell line. <b>2018</b> , 28, 1126-1135	74
1139	Molecular Cytogenetics Guides Massively Parallel Sequencing of a Radiation-Induced Chromosome Translocation in Human Cells. <b>2018</b> , 190, 88-97	6
1138	Split-Read Indel and Structural Variant Calling Using PINDEL. <b>2018</b> , 1833, 95-105	8
1137	GeneFuse: detection and visualization of target gene fusions from DNA sequencing data. <b>2018</b> , 14, 843-848	19
1136	Fine Mapping and Identification of a Novel Phytophthora Root Rot Resistance Locus on Chromosome 2 in Soybean. <b>2018</b> , 9, 44	17
1135	Structural Variant Breakpoint Detection with novoBreak. <b>2018</b> , 1833, 129-141	3
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1133	Detecting Small Inversions Using SRinversion. <b>2018</b> , 1833, 107-114	
1132	Whole genome and transcriptome maps of the entirely black native Korean chicken breed Yeonsan Ogye. <b>2018</b> , 7,	12
1131	nplnv: accurate detection and genotyping of inversions using long read sub-alignment. <b>2018</b> , 19, 261	22
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1129	The Tandem Duplicator Phenotype Is a Prevalent Genome-Wide Cancer Configuration Driven by Distinct Gene Mutations. <b>2018</b> , 34, 197-210.e5	82
1128	Comprehensive Genetic Analysis of Follicular Thyroid Carcinoma Predicts Prognosis Independent of Histology. <b>2018</b> , 103, 2640-2650	41

1127	Recurrent loss of heterozygosity correlates with clinical outcome in pancreatic neuroendocrine cancer. <b>2018</b> , 3, 18	23
1126	Compound heterozygous TYK2 mutations underlie primary immunodeficiency with T-cell lymphopenia. <b>2018</b> , 8, 6956	18
1125	Indel detection from DNA and RNA sequencing data with transIndel. <b>2018</b> , 19, 270	14
1124	Genomics of a pediatric ovarian fibrosarcoma. Association with the DICER1 syndrome. <b>2018</b> , 8, 3252	10
1123	Whole-Genome Resequencing and Pan-Transcriptome Reconstruction Highlight the Impact of Genomic Structural Variation on Secondary Metabolite Gene Clusters in the Grapevine Esca Pathogen. <b>2018</b> , 9, 1784	14
1122	Clonal evolution analysis of paired anaplastic and well-differentiated thyroid carcinomas reveals shared common ancestor. <b>2018</b> , 57, 645-652	17
1121	Analytical Validation of Clinical Whole-Genome and Transcriptome Sequencing of Patient-Derived Tumors for Reporting Targetable Variants in Cancer. <b>2018</b> , 20, 822-835	14
1120	Large extracellular vesicles carry most of the tumour DNA circulating in prostate cancer patient plasma. <b>2018</b> , 7, 1505403	169
1119	Neural differentiation, selection and transcriptomic profiling of human neuromesodermal progenitor-like cells. <b>2018</b> , 145,	29
1118	Novel genetic polymorphisms associated with severe malaria and under selective pressure in North-eastern Tanzania. <b>2018</b> , 14, e1007172	29
1117	DNA breakpoint assay reveals a majority of gross duplications occur in tandem reducing VUS classifications in breast cancer predisposition genes. <b>2019</b> , 21, 683-693	9
1116	Whole-Genome Sequencing in Cancer. <b>2019</b> , 9,	14
1115	Next Generation Sequence Analysis. <b>2019</b> , 352-363	1
1114	Detecting and Annotating Rare Variants. <b>2019</b> , 388-399	2
1113	Recurring genomic structural variation leads to clonal instability and loss of productivity. <b>2019</b> , 116, 41-53	17
1112	Molecular Fingerprinting of Anatomically and Temporally Distinct B-Cell Lymphoma Samples by Next-Generation Sequencing to Establish Clonal Relatedness. <b>2019</b> , 143, 105-111	0
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1110	The landscape of genomic copy number alterations in colorectal cancer and their consequences on gene expression levels and disease outcome. <b>2019</b> , 69, 48-61	17



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1108	SV-Pop: population-based structural variant analysis and visualization. <b>2019</b> , 20, 136	6
1107	TDNAscan: A Software to Identify Complete and Truncated T-DNA Insertions. <b>2019</b> , 10, 685	9
1106	Accurate circular consensus long-read sequencing improves variant detection and assembly of a human genome. <b>2019</b> , 37, 1155-1162	427
1105	Kevlar: A Mapping-Free Framework for Accurate Discovery of De Novo Variants. <b>2019</b> , 18, 28-36	11
1104	Comprehensive detection of chromosomal translocations in lymphoproliferative disorders by massively parallel sequencing. <b>2019</b> , 12, 121-133	1
1103	Comprehensive Identification of Fim-Mediated Inversions in Uropathogenic Escherichia coli with Structural Variation Detection Using Relative Entropy. <b>2019</b> , 4,	1
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1101	Highly rearranged chromosomes reveal uncoupling between genome topology and gene expression. <b>2019</b> , 51, 1272-1282	145
1100	Predicting Local Inversions Using Rectangle Clustering and Representative Rectangle Prediction. <b>2019</b> , 18, 316-323	2
1099	Comprehensive evaluation and characterisation of short read general-purpose structural variant calling software. <b>2019</b> , 10, 3240	90
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1097	Removal of a Subset of Non-essential Genes Fully Attenuates a Highly Virulent Strain. <b>2019</b> , 10, 664	16
1096	Integrating informatics tools and portable sequencing technology for rapid detection of resistance to anti-tuberculous drugs. <b>2019</b> , 11, 41	95
1095	Analysis of overlapping heterozygous novel submicroscopic CNVs and FANCA-VPS9D1 fusion transcripts in a Fanconi anemia patient. <b>2019</b> , 64, 899-909	5
1094	An analysis of large structural variation in global Plasmodium falciparum isolates identifies a novel duplication of the chloroquine resistance associated gene. <b>2019</b> , 9, 8287	6
1093	Adaptive archaic introgression of copy number variants and the discovery of previously unknown human genes. <b>2019</b> , 366,	36
1092	A Single SNP Turns a Social Honey Bee ( <i>Apis mellifera</i> ) Worker into a Selfish Parasite. <b>2019</b> , 36, 516-526	16

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1089	Hecaton: reliably detecting copy number variation in plant genomes using short read sequencing data. <b>2019</b> , 20, 818	2
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1085	Genomic Basis of Circannual Rhythm in the European Corn Borer Moth. <b>2019</b> , 29, 3501-3509.e5	36
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1076	Overview: an iPSC cell stock at CiRA. <b>2019</b> , 39, 17	51
1075	Current and Promising Approaches to Identify Horizontal Gene Transfer Events in Metagenomes. <b>2019</b> , 11, 2750-2766	22
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1073	Detection of False-Positive Deletions from the Database of Genomic Variants. <b>2019</b> , 2019, 8420547		
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1070	VISOR: a versatile haplotype-aware structural variant simulator for short- and long-read sequencing. <i>Bioinformatics</i> , <b>2020</b> , 36, 1267-1269	7.2	8
1069	Bioinformatics Workflows for Genomic Variant Discovery, Interpretation and Prioritization. <b>2019</b> ,		2
1068	Genomic profiling of combined hepatocellular-cholangiocarcinoma reveals similar genetics to hepatocellular carcinoma. <b>2019</b> , 248, 164-178		49
1067	Integration of Genomic and Transcriptional Features in Pancreatic Cancer Reveals Increased Cell Cycle Progression in Metastases. <b>2019</b> , 35, 267-282.e7		80
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1063	Duphold: scalable, depth-based annotation and curation of high-confidence structural variant calls. <b>2019</b> , 8,		25
1062	Clinical utility of targeted NGS panel with comprehensive bioinformatics analysis for patients with acute lymphoblastic leukemia. <b>2019</b> , 60, 3138-3145		4
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1060	Deficiency of nucleotide excision repair is associated with mutational signature observed in cancer. <b>2019</b> , 29, 1067-1077		37
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1058	Genomic characterization of a well-differentiated grade 3 pancreatic neuroendocrine tumor. <b>2019</b> , 5,		8
1057	Clinical Genomic Sequencing of Pediatric and Adult Osteosarcoma Reveals Distinct Molecular Subsets with Potentially Targetable Alterations. <b>2019</b> , 25, 6346-6356		39
1056	Immunohistochemical and molecular features of cholangiolocellular carcinoma are similar to well-differentiated intrahepatic cholangiocarcinoma. <b>2019</b> , 32, 1486-1494		17

1055	Tracing Oncogene Rearrangements in the Mutational History of Lung Adenocarcinoma. <b>2019</b> , 177, 1842-1857.e4	21
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1053	Breakage-Fusion-Bridge Events Trigger Complex Genome Rearrangements and Amplifications in Developmentally Arrested T Cell Lymphomas. <b>2019</b> , 27, 2847-2858.e4	9
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1049	Genomic profiling of well-differentiated hepatocellular neoplasms with diffuse glutamine synthetase staining reveals similar genetics across the adenoma to carcinoma spectrum. <b>2019</b> , 32, 1627-1636	8
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1046	Navigating the non-coding genome in heart development and Congenital Heart Disease. <b>2019</b> , 107, 11-23	7
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1042	Structural variants in 3000 rice genomes. <b>2019</b> , 29, 870-880	62
1041	Whole-genome sequencing of human malignant mesothelioma tumours and cell lines. <b>2019</b> , 40, 724-734	18
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1039	Genetic, epigenetic and genomic effects on variation of gene expression among grape varieties. <b>2019</b> , 99, 895-909	11
1038	SurVindel: improving CNV calling from high-throughput sequencing data through statistical testing. <i>Bioinformatics</i> , <b>2019</b> ,	7.2 1

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1036	Next-Generation Sequencing of Uveal Melanoma for Detection of Genetic Alterations Predicting Metastasis. <b>2019</b> , 8, 18	27
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1034	CRISPR/CAS9 targeted CAPTURE of mammalian genomic regions for characterization by NGS. <b>2019</b> , 9, 3587	14
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1030	Origin and recent expansion of an endogenous gammaretroviral lineage in domestic and wild canids. <b>2019</b> , 16, 6	5
1029	Chromothripsis during telomere crisis is independent of NHEJ, and consistent with a replicative origin. <b>2019</b> , 29, 737-749	27
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1019	Genomic analyses of an extensive collection of wild and cultivated accessions provide new insights into peach breeding history. <b>2019</b> , 20, 36	58
1018	Structural variation and fusion detection using targeted sequencing data from circulating cell free DNA. <b>2019</b> , 47, e38	9
1017	GSDcreator: An Efficient and Comprehensive Simulator for Generating NGS Data with Population Genetic Information. <b>2019</b> ,	1
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1013	Paragraph: a graph-based structural variant genotyper for short-read sequence data. <b>2019</b> , 20, 291	55
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1011	The genomic landscape of metastatic castration-resistant prostate cancers reveals multiple distinct genotypes with potential clinical impact. <b>2019</b> , 10, 5251	66
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1006	GraphTyper2 enables population-scale genotyping of structural variation using pangenome graphs. <b>2019</b> , 10, 5402	43
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1003	Genome sequencing for early-onset or atypical dementia: high diagnostic yield and frequent observation of multiple contributory alleles. <b>2019</b> , 5,	15
1002	Clinical Application of Next-Generation Sequencing-Based Panel to Wild-Type Advanced Melanoma Identifies Key Oncogenic Alterations and Therapeutic Strategies. <b>2020</b> , 19, 937-944	7

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1000	The genomic diversification of grapevine clones. <b>2019</b> , 20, 972		32
999	Genomic Alteration Burden in Advanced Prostate Cancer and Therapeutic Implications. <b>2019</b> , 9, 1287		14
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996	BreakID: genomics breakpoints identification to detect gene fusion events using discordant pairs and split reads. <i>Bioinformatics</i> , <b>2019</b> , 35, 2859-2861	7.2	2
995	The role of structural genomic variants in population differentiation and ecotype formation in <i>Timema cristinae</i> walking sticks. <b>2019</b> , 28, 1224-1237		13
994	Identifying Genomic Variations in Monozygotic Twins Discordant for Autism Spectrum Disorder Using Whole-Genome Sequencing. <b>2019</b> , 14, 204-211		7
993	Molecular landmarks of tumor hypoxia across cancer types. <b>2019</b> , 51, 308-318		255
992	Cluster expansion of apolipoprotein D (ApoD) genes in teleost fishes. <b>2019</b> , 19, 9		1
991	Whole genomes define concordance of matched primary, xenograft, and organoid models of pancreas cancer. <b>2019</b> , 15, e1006596		29
990	Complex Structural Variant Associated with Non-syndromic Canine Retinal Degeneration. <b>2019</b> , 9, 425-437		10
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987	Alfred: interactive multi-sample BAM alignment statistics, feature counting and feature annotation for long- and short-read sequencing. <i>Bioinformatics</i> , <b>2019</b> , 35, 2489-2491	7.2	29
986	Fine-Grained Analysis of Spontaneous Mutation Spectrum and Frequency in. <b>2019</b> , 211, 703-714		46
985	Sequence variants associating with urinary biomarkers. <b>2019</b> , 28, 1199-1211		13
984	Genome sequencing identifies multiple deleterious variants in autism patients with more severe phenotypes. <b>2019</b> , 21, 1611-1620		52

983	Identification of clinically actionable variants from genome sequencing of families with congenital heart disease. <b>2019</b> , 21, 1111-1120	25
982	Identification of high-risk human papillomavirus and Rb/E2F pathway genomic alterations in mutually exclusive subsets of colorectal neuroendocrine carcinoma. <b>2019</b> , 32, 290-305	26
981	DICER1 mutations are frequent in müllerian adenosarcomas and are independent of rhabdomyosarcomatous differentiation. <b>2019</b> , 32, 280-289	33
980	Bioinformatics for precision oncology. <b>2019</b> , 20, 778-788	30
979	Copy number variation detection in Chinese indigenous cattle by whole genome sequencing. <b>2020</b> , 112, 831-836	12
978	Integrated paired-end enhancer profiling and whole-genome sequencing reveals recurrent and enhancer hijacking in primary gastric adenocarcinoma. <b>2020</b> , 69, 1039-1052	21
977	A patient with pontocerebellar hypoplasia type 6: Novel RARS2 mutations, comparison to previously published patients and clinical distinction from PEHO syndrome. <b>2020</b> , 63, 103766	4
976	Meltos: multi-sample tumor phylogeny reconstruction for structural variants. <i>Bioinformatics</i> , <b>2020</b> , 36, 1082-1090	7.2 6
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974	Insertional oncogenesis by HPV70 revealed by multiple genomic analyses in a clinically HPV-negative cervical cancer. <b>2020</b> , 59, 84-95	2
973	Detecting inherited and novel structural variants in low-coverage parent-child sequencing data. <b>2020</b> , 173, 61-68	0
972	A new era of long-read sequencing for cancer genomics. <b>2020</b> , 65, 3-10	28
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968	Structural variant identification and characterization. <b>2020</b> , 28, 31-47	6
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966	Genetic Basis of De Novo Appearance of Carotenoid Ornamentation in Bare Parts of Canaries. <b>2020</b> , 37, 1317-1328	18



965	Genetic analysis of pleomorphic and florid lobular carcinoma in situ variants: frequent ERBB2/ERBB3 alterations and clonal relationship to classic lobular carcinoma in situ and invasive lobular carcinoma. <b>2020</b> , 33, 1078-1091	9
964	Single-cell analysis of structural variations and complex rearrangements with tri-channel processing. <b>2020</b> , 38, 343-354	17
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962	Analysis pipelines for cancer genome sequencing in mice. <b>2020</b> , 15, 266-315	12
961	Deep sequencing of myxoinflammatory fibroblastic sarcoma. <b>2020</b> , 59, 309-317	3
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957	Targeted deep-intronic sequencing in a cohort of unexplained cases of suspected Lynch syndrome. <b>2020</b> , 28, 597-608	4
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953	A random forest-based framework for genotyping and accuracy assessment of copy number variations. <b>2020</b> , 2, lqaa071	4
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949	Distinct Classes of Complex Structural Variation Uncovered across Thousands of Cancer Genome Graphs. <b>2020</b> , 183, 197-210.e32	45
948	An integrated personal and population-based Egyptian genome reference. <b>2020</b> , 11, 4719	6

947	Genome resequencing data for Iranian local dogs and wolves. <b>2020</b> , 13, 436	
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944	MYB61 is regulated by GRF4 and promotes nitrogen utilization and biomass production in rice. <b>2020</b> , 11, 5219	20
943	Genome Sequencing as a Diagnostic Test in Children With Unexplained Medical Complexity. <b>2020</b> , 3, e2018109	13
942	Invasive plasmacytoid urothelial carcinoma: A comparative study of E-cadherin and P120 catenin. <b>2020</b> , 102, 54-59	2
941	Evolutionary Genomics of Structural Variation in Asian Rice ( <i>Oryza sativa</i> ) Domestication. <b>2020</b> , 37, 3507-3524	19
940	Personalised mapping of tumour development in synchronous colorectal cancer patients. <b>2020</b> , 5, 27	1
939	Identification of copy number variation and population analysis of the sacred lotus ( <i>Nelumbo</i> ). <b>2020</b> , 84, 2037-2044	0
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936	Dynamic and reversible DNA methylation changes induced by genome separation and merger of polyploid wheat. <b>2020</b> , 18, 171	12
935	The evolution of relapse of adult T cell acute lymphoblastic leukemia. <b>2020</b> , 21, 284	5
934	Genomic and transcriptomic alterations associated with drug vulnerabilities and prognosis in adenocarcinoma at the gastroesophageal junction. <b>2020</b> , 11, 6091	7
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932	Performance of copy number variants detection based on whole-genome sequencing by DNBSEQ platforms. <b>2020</b> , 21, 518	3
931	A 50-kb deletion disrupting the RSPO2 gene is associated with tetradysmelia in Holstein Friesian cattle. <b>2020</b> , 52, 68	0
930	Predicting favorable landing pads for targeted integrations in Chinese hamster ovary cell lines by learning stability characteristics from random transgene integrations. <b>2020</b> , 18, 3632-3648	7

929	Reference Genome for the Highly Transformable ME034V. <b>2020</b> , 10, 3467-3478	13
928	Long-read-based human genomic structural variation detection with cuteSV. <b>2020</b> , 21, 189	35
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926	Bovine breed-specific augmented reference graphs facilitate accurate sequence read mapping and unbiased variant discovery. <b>2020</b> , 21, 184	19
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923	DINTD: Detection and Inference of Tandem Duplications From Short Sequencing Reads. <b>2020</b> , 11, 924	1
922	Structure and Sequence of the Sex Determining Locus in Two Wild Populations of Nile Tilapia. <b>2020</b> , 11,	6
921	VAV2 signaling promotes regenerative proliferation in both cutaneous and head and neck squamous cell carcinoma. <b>2020</b> , 11, 4788	11
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919	ScanITD: Detecting internal tandem duplication with robust variant allele frequency estimation. <b>2020</b> , 9,	4
918	Detection of simple and complex de novo mutations with multiple reference sequences. <b>2020</b> , 30, 1154-1169	5
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916	Integrative genomic analysis of salivary duct carcinoma. <b>2020</b> , 10, 14995	4
915	Revealing the impact of structural variants in multiple myeloma. <b>2020</b> , 1, 258-273	28
914	Shiny-SoSV: A web-based performance calculator for somatic structural variant detection. <b>2020</b> , 15, e0238108	
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909	Identification and population genetic analyses of copy number variations in six domestic goat breeds and Bezoar ibexes using next-generation sequencing. <b>2020</b> , 21, 840	0
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899	Activation of cryptic splicing in bovine WDR19 is associated with reduced semen quality and male fertility. <b>2020</b> , 16, e1008804	11
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895	Hi-C Identifies Complex Genomic Rearrangements and TAD-Shuffling in Developmental Diseases. <b>2020</b> , 106, 872-884	36
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883	Major Impacts of Widespread Structural Variation on Gene Expression and Crop Improvement in Tomato. <b>2020</b> , 182, 145-161.e23	171
882	SVXplorer: Three-tier approach to identification of structural variants via sequential recombination of discordant cluster signatures. <b>2020</b> , 16, e1007737	
881	InvBFM: finding genomic inversions from high-throughput sequence data based on feature mining. <b>2020</b> , 21, 173	1
880	Recessive missense LAMP3 variant associated with defect in lamellar body biogenesis and fatal neonatal interstitial lung disease in dogs. <b>2020</b> , 16, e1008651	3
879	Whole genome resequencing of the Iranian native dogs and wolves to unravel variome during dog domestication. <b>2020</b> , 21, 207	1
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876	HiINT: a computational method for detecting copy number variations and translocations from Hi-C data. <b>2020</b> , 21, 73	27

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870	Molecular Diagnostics of Non-Hodgkin Lymphoma. <b>2020</b> , 26, 186-194	2
869	Pre-clinical study of induced pluripotent stem cell-derived dopaminergic progenitor cells for Parkinson's disease. <b>2020</b> , 11, 3369	93
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867	A genome-wide survey of copy number variations reveals an asymmetric evolution of duplicated genes in rice. <b>2020</b> , 18, 73	2
866	Whole genome sequencing of familial isolated oesophagus atresia uncover shared structural variants. <b>2020</b> , 13, 85	1
865	Primary mammary angiosarcomas harbor frequent mutations in KDR and PIK3CA and show evidence of distinct pathogenesis. <b>2020</b> , 33, 1518-1526	6
864	Wide spectrum and high frequency of genomic structural variation, including transposable elements, in large double-stranded DNA viruses. <b>2020</b> , 6, vez060	16
863	Comparative Analysis of Structural Variations Due to Genome Shuffling of Bacillus Subtilis VS15 for Improved Cellulase Production. <b>2020</b> , 21,	3
862	Identification of key genes related to seedlessness by genome-wide detection of structural variation and transcriptome analysis in 'Shijiwuhe' pear. <b>2020</b> , 738, 144480	0
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859	Transcription phenotypes of pancreatic cancer are driven by genomic events during tumor evolution. <b>2020</b> , 52, 231-240	148
858	Patterns of somatic structural variation in human cancer genomes. <b>2020</b> , 578, 112-121	232

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855	Comparison of multiple algorithms to reliably detect structural variants in pears. <b>2020</b> , 21, 61	4
854	Varlociraptor: enhancing sensitivity and controlling false discovery rate in somatic indel discovery. <b>2020</b> , 21, 98	3
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850	Extrachromosomal DNA-relieving heredity constraints, accelerating tumour evolution. <b>2020</b> , 31, 884-893	31
849	Pan-cancer analysis of advanced patient tumors reveals interactions between therapy and genomic landscapes.. <b>2020</b> , 1, 452-468	34
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845	Genomic landscape of metastatic papillary thyroid carcinoma and novel biomarkers for predicting distant metastasis. <b>2020</b> , 111, 2163-2173	14
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842	Comprehensive fundamental somatic variant calling and quality management strategies for human cancer genomes. <b>2021</b> , 22,	5
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840	Complex Variant Discovery Using Discordant Cluster Normalization. <b>2021</b> , 28, 185-194	

839	Detection of non-targeted transgenes by whole-genome resequencing for gene-doping control. <b>2021</b> , 28, 199-205	4
838	Detection of somatic structural variants from short-read next-generation sequencing data. <b>2021</b> , 22,	11
837	Epigenomic, genomic, and transcriptomic landscape of schwannomatosis. <b>2021</b> , 141, 101-116	11
836	H3 G34-mutant high-grade glioma. <b>2021</b> , 38, 4-13	7
835	Adaptation, ancestral variation and gene flow in a 'Sky Island' <i>Drosophila</i> species. <b>2021</b> , 30, 83-99	2
834	The Evolutionary Dynamics of Genetic Incompatibilities Introduced by Duplicated Genes in <i>Arabidopsis thaliana</i> . <b>2021</b> , 38, 1225-1240	0
833	Enhancing acetic acid and 5-hydroxymethyl furfural tolerance of <i>C. saccharoperbutylacetonicum</i> through adaptive laboratory evolution. <b>2021</b> , 101, 179-189	4
832	Long-read trio sequencing of individuals with unsolved intellectual disability. <b>2021</b> , 29, 637-648	7
831	A Performance Comparison of Commonly Used Assays to Detect RET Fusions. <b>2021</b> , 27, 1316-1328	11
830	Taking the next-gen step: Comprehensive antimicrobial resistance detection from <i>Burkholderia pseudomallei</i> . <b>2021</b> , 63, 103152	5
829	An Integrative DNA Sequencing and Methylation Panel to Assess Mismatch Repair Deficiency. <b>2021</b> , 23, 242-252	5
828	A New Catalog of Structural Variants in 1,301 <i>A. thaliana</i> Lines from Africa, Eurasia, and North America Reveals a Signature of Balancing Selection at Defense Response Genes. <b>2021</b> , 38, 1498-1511	8
827	A paternally inherited 1.4 kb deletion of the 11p15.5 imprinting center 2 is associated with a mild familial Silver-Russell syndrome phenotype. <b>2021</b> , 29, 447-454	1
826	Overexpression of schizophrenia susceptibility factor human complement C4A promotes excessive synaptic loss and behavioral changes in mice. <b>2021</b> , 24, 214-224	49
825	Few Fixed Variants between Trophic Specialist Pufffish Species Reveal Candidate Cis-Regulatory Alleles Underlying Rapid Craniofacial Divergence. <b>2021</b> , 38, 405-423	4
824	BL1391: an established cell line from a human malignant peripheral nerve sheath tumor with unique genomic features. <b>2021</b> , 34, 238-245	0
823	Deletion Detection Method Using the Distribution of Insert Size and a Precise Alignment Strategy. <b>2021</b> , 18, 1070-1081	
822	Network-based analysis of allele frequency distribution among multiple populations identifies adaptive genomic structural variants.	0



821	Transposable elements contribute to genome dynamics and gene expression variation in the fungal plant pathogen <i>Verticillium dahliae</i> .	0
820	Detecting Causal Variants in Mendelian Disorders Using Whole-Genome Sequencing. <b>2021</b> , 2243, 1-25	2
819	Nebula: ultra-efficient mapping-free structural variant genotyper. <b>2021</b> , 49, e47	6
818	In vivo cytidine base editing of hepatocytes without detectable off-target mutations in RNA and DNA. <b>2021</b> , 5, 179-189	20
817	State-of-the-art structural variant calling: What went conceptually wrong and how to fix it?.	0
816	The genomes of precision edited cloned calves show no evidence for off-target events or increased de novo mutagenesis.	
815	Pathogenic Germline Variants in Cancer Susceptibility Genes in Children and Young Adults With Rhabdomyosarcoma. <b>2021</b> , 5,	6
814	Conservation and Loss of a Putative Iron Utilization Gene Cluster among Genotypes of. <b>2021</b> , 9,	
813	Next Generation Sequencing analysis suggests varied multistep mutational pathogenesis for Endocrine Mucin Producing Sweat Gland Carcinoma with comments on INSM1 and MUC2 suggesting a conjunctival origin. <b>2021</b> ,	2
812	Ultraviolet radiation drives mutations in a subset of mucosal melanomas. <b>2021</b> , 12, 259	10
811	Genome structure variation analyses of peach reveal population dynamics and a 1.67 Mb causal inversion for fruit shape. <b>2021</b> , 22, 13	16
810	Methods to Study Genomic DNA Sequence Variation. <b>2021</b> , 59-92	
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808	Whole genome sequencing of skull-base chordoma reveals genomic alterations associated with recurrence and chordoma-specific survival. <b>2021</b> , 12, 757	14
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806	Discovering single nucleotide variants and indels from bulk and single-cell ATAC-seq.	
805	Size Variation of the Nonrecombining Region on the Mating-Type Chromosomes in the Fungal <i>Podospora anserina</i> Species Complex. <b>2021</b> , 38, 2475-2492	0
804	ClinSV: clinical grade structural and copy number variant detection from whole genome sequencing data. <b>2021</b> , 13, 32	9

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802	Clinical and Biological Subtypes of B-cell Lymphoma Revealed by Microenvironmental Signatures. <b>2021</b> , 11, 1468-1489	27
801	A variant selection framework for genome graphs.	0
800	Clinically significant genomic alterations in the Chinese and Western patients with intrahepatic cholangiocarcinoma. <b>2021</b> , 21, 152	3
799	Whole genome sequencing of 45 Japanese patients with intellectual disability. <b>2021</b> , 185, 1468-1480	6
798	PopDel identifies medium-size deletions simultaneously in tens of thousands of genomes. <b>2021</b> , 12, 730	4
797	Genome sequences of <i>Tropheus moorii</i> and <i>Petrochromis trewavasae</i> , two eco-morphologically divergent cichlid fishes endemic to Lake Tanganyika. <b>2021</b> , 11, 4309	2
796	The lncRNA 44s2 Study Applicability to the Design of 45-55 Exon Skipping Therapeutic Strategy for DMD. <b>2021</b> , 9,	1
795	Intronic variant in POU1F1 associated with canine pituitary dwarfism. <b>2021</b> , 140, 1553-1562	0
794	Ancient Migrations - The first complete genome assembly, annotation and variants of the Zoroastrian-Parsi community of India.	
793	The impact of genomic structural variation on the transcriptome, chromatin, and proteome in the human brain.	1
792	A missense variant in IFT122 associated with a canine model of retinitis pigmentosa. <b>2021</b> , 140, 1569-1579	0
791	Association Between Mutations and Glucocorticoid Resistance in Children With Acute Lymphoblastic Leukemia. <b>2021</b> , 12, 634956	1
790	Genomic analyses provide insights into peach local adaptation and responses to climate change. <b>2021</b> , 31, 592-606	9
789	Transformed Canine and Murine Mesenchymal Stem Cells as a Model for Sarcoma with Complex Genomics. <b>2021</b> , 13,	3
788	Reconstructing the Lineage Histories and Differentiation Trajectories of Individual Cancer Cells in Myeloproliferative Neoplasms. <b>2021</b> , 28, 514-523.e9	42
787	An International Virtual Hackathon to Build Tools for the Analysis of Structural Variants within Species Ranging from Coronaviruses to Vertebrates. <b>2021</b> , 10, 246	2
786	HolistIC: Leveraging Hi-C and Whole Genome Shotgun Sequencing for Double Minute Chromosome Discovery.	1

785	Leukemic stem cell phenotype is associated with mutational profile in acute myeloid leukemia. <b>2021</b> , 36, 401-412	3
784	Germline and Tumor Sequencing as a Diagnostic Tool To Resolve Suspected Lynch Syndrome. <b>2021</b> , 23, 358-371	1
783	Structural variant detection in cancer genomes: computational challenges and perspectives for precision oncology. <b>2021</b> , 5, 15	3
782	Genome-wide investigation identifies a rare copy-number variant burden associated with human spina bifida. <b>2021</b> , 23, 1211-1218	3
781	Shotgun transcriptome, spatial omics, and isothermal profiling of SARS-CoV-2 infection reveals unique host responses, viral diversification, and drug interactions. <b>2021</b> , 12, 1660	60
780	Molecular organization of recombinant human-Arabidopsis chromosomes in hybrid cell lines. <b>2021</b> , 11, 7160	0
779	Whole-Genome Sequencing in Diagnostics of Selected Slovenian Undiagnosed Patients with Rare Disorders. <b>2021</b> , 11,	2
778	JAX-CNV: A whole genome sequencing-based algorithm for copy number detection at clinical grade level.	1
777	Mako: a graph-based pattern growth approach to detect complex structural variants.	
776	Comparison of Structural and Short Variants Detected by Linked-Read and Whole-Exome Sequencing in Multiple Myeloma. <b>2021</b> , 13,	1
775	Finding underlying genetic mechanisms of two patients with autism spectrum disorder carrying familial apparently balanced chromosomal translocations. <b>2021</b> , 23, e3322	
774	Computational Methods for Detecting Large-Scale Structural Rearrangements in Chromosomes. 37-51	
773	Combinatorial patterns of gene expression changes contribute to variable expressivity of the developmental delay-associated 16p12.1 deletion.	
772	A loss-of-function mutation in RORB disrupts saltatorial locomotion in rabbits. <b>2021</b> , 17, e1009429	1
771	Structural variant selection for high-altitude adaptation using single-molecule long-read sequencing.	1
770	Molecular characterization of DICER1-mutated pituitary blastoma. <b>2021</b> , 141, 929-944	6
769	The transcriptional landscape of Shh medulloblastoma. <b>2021</b> , 12, 1749	7
768	SENSV: Detecting Structural Variations with Precise Breakpoints using Low-Depth WGS Data from a Single Oxford Nanopore MinION Flowcell.	1

767	The Usefulness of Cell-Based and Liquid-Based Urine Tests in Clarifying the Diagnosis and Monitoring the Course of Urothelial Carcinoma. Identification of Novel, Potentially Actionable, and Somatic Mutations. <b>2021</b> , 11,	
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764	Proteogenomic and metabolomic characterization of human glioblastoma. <b>2021</b> , 39, 509-528.e20	71
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762	Clinical and Genomic Characteristics of Adult Diffuse Midline Glioma. <b>2021</b> , 53, 389-398	2
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760	Cotton pan-genome retrieves the lost sequences and genes during domestication and selection. <b>2021</b> , 22, 119	10
759	Whole-genome resequencing of 445 Lactuca accessions reveals the domestication history of cultivated lettuce. <b>2021</b> , 53, 752-760	9
758	A comparison of tools for copy-number variation detection in germline whole exome and whole genome sequencing data.	2
757	Inversions maintain differences between migratory phenotypes of a songbird.	0
756	Haplotype-resolved diverse human genomes and integrated analysis of structural variation. <b>2021</b> , 372,	100
755	A verified genomic reference sample for assessing performance of cancer panels detecting small variants of low allele frequency. <b>2021</b> , 22, 111	8
754	Integrative reconstruction of cancer genome karyotypes using InfoGenomeR. <b>2021</b> , 12, 2467	0
753	Rescue of STAT3 Function in Hyper-IgE Syndrome Using Adenine Base Editing. <b>2021</b> , 4, 178-190	2
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750	Extensive genome-wide duplications in the eastern oyster ( <i>Ostrea edulis</i> ). <b>2021</b> , 376, 20200164	5

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748	Enabling Genomics Pipelines in Commodity Personal Computers With Flash Storage. <b>2021</b> , 12, 615958		
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746	De novo structural mutation rates and gamete-of-origin biases revealed through genome sequencing of 2,396 families. <b>2021</b> , 108, 597-607		13
745	Reference SVA insertion polymorphisms are associated with Parkinson's Disease progression and differential gene expression. <b>2021</b> , 7, 44		5
744	Comparison of structural variants detected by optical mapping with long-read next-generation sequencing. <i>Bioinformatics</i> , <b>2021</b> ,	7.2	1
743	Missense variant in LOXHD1 is associated with canine nonsyndromic hearing loss. <b>2021</b> , 140, 1611-1618		0
742	Detection of copy number variants in African goats using whole genome sequence data. <b>2021</b> , 22, 398		0
741	Simplifying the development of portable, scalable, and reproducible workflows.		
740	Familial Occurrence of Adult Granulosa Cell Tumors: Analysis of Whole-Genome Germline Variants. <b>2021</b> , 13,		1
739	Microdeletion of 9q22.3: A patient with minimal deletion size associated with a severe phenotype. <b>2021</b> , 185, 2070-2083		1
738	Chromosome-Level Assembly of the Atlantic Silverside Genome Reveals Extreme Levels of Sequence Diversity and Structural Genetic Variation. <b>2021</b> , 13,		2
737	Loose ends in cancer genome structure.		0
736	Dysgu: efficient structural variant calling using short or long reads.		1
735	The Telomere Length Landscape of Prostate Cancer.		
734	Different types of disease-causing noncoding variants revealed by genomic and gene expression analyses in families with X-linked intellectual disability. <b>2021</b> , 42, 835-847		
733	bric $\square$ brac controls sex pheromone choice by male European corn borer moths. <b>2021</b> , 12, 2818		5
732	Metastasis is altered through multiple processes regulated by the E2F1 transcription factor. <b>2021</b> , 11, 9502		2

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730	Investigation of product-derived lymphoma following infusion of piggyBac-modified CD19 chimeric antigen receptor T cells. <b>2021</b> , 138, 1391-1405	26
729	Genomic insights into the pathogenesis of Epstein-Barr virus-associated diffuse large B-cell lymphoma by whole-genome and targeted amplicon sequencing. <b>2021</b> , 11, 102	6
728	Genomic Features and Classification of Homologous Recombination Deficient Pancreatic Ductal Adenocarcinoma. <b>2021</b> , 160, 2119-2132.e9	30
727	Genomic diversity in a population of Spodoptera frugiperda nucleopolyhedrovirus. <b>2021</b> , 90, 104749	5
726	Diverse tumorigenic consequences of human papillomavirus integration in primary oropharyngeal cancers.	
725	Control of gene doping in human and horse sports. <b>2021</b> ,	5
724	GIP: An open-source computational pipeline for mapping genomic instability from protists to cancer cells.	
723	Transposable Elements Contribute to Genome Dynamics and Gene Expression Variation in the Fungal Plant Pathogen <i>Verticillium dahliae</i> . <b>2021</b> , 13,	2
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721	Alterations and Response to Immunotherapy in Solid Tumors. <b>2021</b> , 27, 4025-4035	6
720	Towards a Comprehensive Variation Benchmark for Challenging Medically-Relevant Autosomal Genes.	8
719	The genomes of precision edited cloned calves show no evidence for off-target events or increased de novo mutagenesis. <b>2021</b> , 22, 457	1
718	An integrated approach for copy number variation discovery in parent-offspring trios. <b>2021</b> , 22,	
717	Bi-allelic loss of <i>ERGIC1</i> causes relatively mild arthrogyrosis. <b>2021</b> , 100, 329-333	1
716	Evolution and genomic signatures of spontaneous somatic mutation in intestinal stem cells. <b>2021</b> , 31, 1419-1432	3
715	A cattle graph genome incorporating global breed diversity.	2
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