

# Overview of Next-Generation Sequencing Technology

Current Protocols in Molecular Biology

122, e59

DOI: [10.1002/cpmb.59](https://doi.org/10.1002/cpmb.59)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The integration of emerging omics approaches to advance precision medicine: How can regulatory science help?. <i>Journal of Clinical and Translational Science</i> , 2018, 2, 295-300.	0.3	7
2	The Mutational Landscape of Pancreatic and Liver Cancers, as Represented by Circulating Tumor DNA. <i>Frontiers in Oncology</i> , 2019, 9, 952.	1.3	6
3	High-throughput DNA sequencing technologies for water and wastewater analysis. <i>Science Progress</i> , 2019, 102, 351-376.	1.0	16
4	Current and Promising Approaches to Identify Horizontal Gene Transfer Events in Metagenomes. <i>Genome Biology and Evolution</i> , 2019, 11, 2750-2766.	1.1	70
5	Back to the Colorectal Cancer Consensus Molecular Subtype Future. <i>Current Gastroenterology Reports</i> , 2019, 21, 5.	1.1	50
6	Miniaturized and Automated Synthesis of Biomolecules—Overview and Perspectives. <i>Advanced Materials</i> , 2019, 31, 1806656.	11.1	15
7	Illumina and Nanopore methods for whole genome sequencing of hepatitis B virus (HBV). <i>Scientific Reports</i> , 2019, 9, 7081.	1.6	75
8	Normal serum ApoB48 and red cells vitamin E concentrations after supplementation in a novel compound heterozygous case of abetalipoproteinemia. <i>Atherosclerosis</i> , 2019, 284, 75-82.	0.4	10
9	Analysis of Transcriptome and Epitranscriptome in Plants Using PacBio Iso-Seq and Nanopore-Based Direct RNA Sequencing. <i>Frontiers in Genetics</i> , 2019, 10, 253.	1.1	127
10	Therminator DNA Polymerase: Modified Nucleotides and Unnatural Substrates. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 28.	1.6	22
11	Rapid, Unbiased PRRSV Strain Detection Using MinION Direct RNA Sequencing and Bioinformatics Tools. <i>Viruses</i> , 2019, 11, 1132.	1.5	23
12	Age estimation in a long-lived seabird ( <i>Ardenna tenuirostris</i> ) using DNA methylation-based biomarkers. <i>Molecular Ecology Resources</i> , 2019, 19, 411-425.	2.2	44
13	The use of next generation sequencing for improving food safety: Translation into practice. <i>Food Microbiology</i> , 2019, 79, 96-115.	2.1	225
14	Counterpoint: Distributed Model for Molecular Diagnostics. <i>Clinical Chemistry</i> , 2020, 66, 140-142.	1.5	3
15	Next-Generation Sequencing: An Eye-Opener for the Surveillance of Antiviral Resistance in Influenza. <i>Trends in Biotechnology</i> , 2020, 38, 360-367.	4.9	37
16	Beyond bulk single-chain sequencing: Getting at the whole receptor. <i>Current Opinion in Systems Biology</i> , 2020, 24, 93-99.	1.3	10
17	Strategies and advancements in human microbiome description and the importance of culturomics. <i>Microbial Pathogenesis</i> , 2020, 149, 104460.	1.3	11
18	Outcome of Targeted Therapy Recommendations for Metastatic and Recurrent Head and Neck Cancers. <i>Cancers</i> , 2020, 12, 3381.	1.7	2

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19	Genetic counselling and testing for inherited dementia: single-centre evaluation of the consensus Italian DIAfN protocol. <i>Alzheimer's Research and Therapy</i> , 2020, 12, 152.	3.0	7
20	Microbiomes for All. <i>Frontiers in Microbiology</i> , 2020, 11, 593472.	1.5	4
21	Identification of microRNAs and their targets in inflorescences of an Ogura-type cytoplasmic male-sterile line and its maintainer fertile line of turnip ( <i>Brassica rapa</i> ssp. <i>rapifera</i> ) via high-throughput sequencing and degradome analysis. <i>PLoS ONE</i> , 2020, 15, e0236829.	1.1	5
22	Digitalization in microbiology â€“ Paving the path to sustainable circular bioeconomy. <i>New Biotechnology</i> , 2020, 59, 88-96.	2.4	21
23	Advantages and Limitations of 16S rRNA Next-Generation Sequencing for Pathogen Identification in the Diagnostic Microbiology Laboratory: Perspectives from a Middle-Income Country. <i>Diagnostics</i> , 2020, 10, 816.	1.3	39
24	Advances in Genetic Characterization and Genotypeâ€“Phenotype Correlation of Duchenne and Becker Muscular Dystrophy in the Personalized Medicine Era. <i>Journal of Personalized Medicine</i> , 2020, 10, 111.	1.1	21
25	Metabarcoding From Microbes to Mammals: Comprehensive Bioassessment on a Global Scale. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	1.1	49
26	Non-invasive Technology Advances in Cancerâ€“A Review of the Advances in the Liquid Biopsy for Endometrial and Ovarian Cancers. <i>Frontiers in Digital Health</i> , 2020, 2, 573010.	1.5	3
27	Technologies for Pharmacogenomics: A Review. <i>Genes</i> , 2020, 11, 1456.	1.0	37
28	Microbial Benthic Communities in the Aegean Sea. <i>Handbook of Environmental Chemistry</i> , 2020, , 1.	0.2	4
29	A Streamlined Protocol for Wheat ( <i>Triticum aestivum</i> ) Protoplast Isolation and Transformation With CRISPR-Cas Ribonucleoprotein Complexes. <i>Frontiers in Plant Science</i> , 2020, 11, 769.	1.7	29
30	DNA Microsystems for Biodiagnosis. <i>Micromachines</i> , 2020, 11, 445.	1.4	3
31	Complete, high-quality genomes from long-read metagenomic sequencing of two wolf lichen thalli reveals enigmatic genome architecture. <i>Genomics</i> , 2020, 112, 3150-3156.	1.3	16
32	Phylogenomics and molecular species delimitation reveals great cryptic diversity of leaf-toed geckos (Phyllodactylidae: <i>Phyllodactylus</i> ), ancient origins, and diversification in Mexico. <i>Molecular Phylogenetics and Evolution</i> , 2020, 150, 106880.	1.2	11
33	Quantitative Microbial Risk Assessment and Molecular Biology: Paths to Integration. <i>Environmental Science &amp; Technology</i> , 2020, 54, 8539-8546.	4.6	34
34	Genetic architecture of neurodegenerative dementias. <i>Neuropharmacology</i> , 2020, 168, 108014.	2.0	5
35	Recent trends and advances in identification and functional characterization of plant miRNAs. <i>Acta Physiologiae Plantarum</i> , 2020, 42, 1.	1.0	22
36	High throughput sequencing of <i>in vitro</i> selections of mRNA-displayed peptides: data analysis and applications. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6492-6506.	1.3	8

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37	The Pharmacopea within Triatomine Salivary Glands. Trends in Parasitology, 2020, 36, 250-265.	1.5	17
38	Isolation of Highly Purified and Viable Retinal Endothelial Cells. Journal of Vascular Research, 2021, 58, 49-57.	0.6	8
39	Next-generation sequencing to enhance the taxonomic resolution of the microbiological analysis of meat and meat-derived products. Current Opinion in Food Science, 2021, 37, 58-65.	4.1	17
40	CoolMPS: evaluation of antibody labeling based massively parallel non-coding RNA sequencing. Nucleic Acids Research, 2021, 49, e10-e10.	6.5	10
41	Pediatric pharmacogenomics: challenges and opportunities: on behalf of the Sanford Children's Genomic Medicine Consortium. Pharmacogenomics Journal, 2021, 21, 8-19.	0.9	23
42	Perspectives and challenges in validating new diagnostic technologies. OIE Revue Scientifique Et Technique, 2021, 40, 145-157.	0.5	1
43	TPK: a single-cell clustering algorithm based on novel feature selection genes. Journal of Physics: Conference Series, 2021, 1738, 012078.	0.3	0
44	Metagenomic analysis of wastewater microbiome signature: Methods, challenges, and their application in wastewater treatment. , 2021, , 51-64.		0
45	LoReTTA, a user-friendly tool for assembling viral genomes from PacBio sequence data. Virus Evolution, 2021, 7, veab042.	2.2	4
46	Methods for Proteogenomics Data Analysis, Challenges, and Scalability Bottlenecks: A Survey. IEEE Access, 2021, 9, 5497-5516.	2.6	14
47	Biochemical predictors of response to immune checkpoint inhibitors in unresectable hepatocellular carcinoma. Cancer Treatment and Research Communications, 2021, 27, 100328.	0.7	70
48	Phenotype evaluation and clinical context. , 2021, , 251-274.		1
49	Microbial Diversity and Multifunctional Microbial Biostimulants for Agricultural Sustainability. , 2021, , 141-184.		0
50	Modernizing the Toolkit for Arthropod Bloodmeal Identification. Insects, 2021, 12, 37.	1.0	19
51	Next-generation sequencing for the genetic characterization of Maedi/Visna virus isolated from the northwest of China. Journal of Veterinary Science, 2021, 22, e66.	0.5	2
52	Assembly, Annotation, and Comparative Analysis of Bifidobacterial Genomes. Methods in Molecular Biology, 2021, 2278, 31-44.	0.4	0
54	High-Throughput Sequencing Technologies. , 2021, , 283-304.		1
55	Genome-wide genetic marker analysis and genotyping of Escherichia fergusonii strain OTSVEF-60. Brazilian Journal of Microbiology, 2021, 52, 989-1004.	0.8	14

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56	Genome-wide analysis of allele-specific expression of genes in the model diatom <i>Phaeodactylum tricornutum</i> . <i>Scientific Reports</i> , 2021, 11, 2954.	1.6	11
57	Nutrition and Rheumatoid Arthritis in the "Omics" Era. <i>Nutrients</i> , 2021, 13, 763.	1.7	18
58	Monitoring COVID-19 Transmission Risks by Quantitative Real-Time PCR Tracing of Droplets in Hospital and Living Environments. <i>MSphere</i> , 2021, 6, .	1.3	22
59	Next Generation Sequencing in Cytopathology: Focus on Non-Small Cell Lung Cancer. <i>Frontiers in Medicine</i> , 2021, 8, 633923.	1.2	26
60	Next-Generation Sequencing-Based Preimplantation Genetic Testing for De Novo NF1 Mutations. <i>Biochip Journal</i> , 2021, 15, 69-76.	2.5	3
61	Visualization and Analysis in the Field of Pan-Cancer Studies and Its Application in Breast Cancer Treatment. <i>Frontiers in Medicine</i> , 2021, 8, 635035.	1.2	8
62	Cell-blocks and other ancillary studies (including molecular genetic tests and proteomics). <i>CytoJournal</i> , 2021, 18, 4.	0.8	18
63	Functional Annotation of a Full-Length Transcriptome and Identification of Genes Associated with Flower Development in <i>Rhododendron simsii</i> (Ericaceae). <i>Plants</i> , 2021, 10, 649.	1.6	10
64	Analysis method and algorithm design of biological sequence problem based on generalized k-mer vector. <i>Applied Mathematics</i> , 2021, 36, 114-127.	0.6	3
65	Single-Molecule Long-Read Sequencing of Purslane ( <i>Portulaca oleracea</i> ) and Differential Gene Expression Related with Biosynthesis of Unsaturated Fatty Acids. <i>Plants</i> , 2021, 10, 655.	1.6	5
66	Resequencing of Microbial Isolates: A Lab Module to Introduce Novices to Command-Line Bioinformatics. <i>Frontiers in Microbiology</i> , 2021, 12, 578859.	1.5	0
68	A bioinformatics approach to microRNA-sequencing analysis. <i>Osteoarthritis and Cartilage Open</i> , 2021, 3, 100131.	0.9	34
69	Next Generation Sequencing Technology in the Clinic and Its Challenges. <i>Cancers</i> , 2021, 13, 1751.	1.7	17
70	Omics analyses in peritoneal metastasis" utility in the management of peritoneal metastases from colorectal cancer and pseudomyxoma peritonei: a narrative review. <i>Journal of Gastrointestinal Oncology</i> , 2021, 12, S191-S203.	0.6	16
71	Differentiation of Capripox Viruses by Nanopore Sequencing. <i>Vaccines</i> , 2021, 9, 351.	2.1	4
72	Next-generation sequencing for the diagnosis of hepatitis B: current status and future prospects. <i>Expert Review of Molecular Diagnostics</i> , 2021, 21, 381-396.	1.5	6
73	PacBio Single-Molecule Long-Read Sequencing Reveals Genes Tolerating Manganese Stress in <i>Schima superba</i> Saplings. <i>Frontiers in Genetics</i> , 2021, 12, 635043.	1.1	18
74	Identifying Methylation Patterns in Dental Pulp Aging: Application to Age-at-Death Estimation in Forensic Anthropology. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3717.	1.8	14

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75	Helicobacter pylori infection and antibiotic resistance – from biology to clinical implications. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 613-629.	8.2	198
76	Integrated Analysis of Whole Genome and Epigenome Data Using Machine Learning Technology: Toward the Establishment of Precision Oncology. Frontiers in Oncology, 2021, 11, 666937.	1.3	25
77	Multi-omics approaches to improve malaria therapy. Pharmacological Research, 2021, 167, 105570.	3.1	18
78	High-throughput sequencing reveals crucial miRNAs in skeletal muscle development of Bian chicken. British Poultry Science, 2021, 62, 658-665.	0.8	3
79	Next Generation Sequencing in the Management of Leptomeningeal Metastases of Non-Small Cell Lung Cancer: A Case Report and Literature Review. Recent Patents on Anti-Cancer Drug Discovery, 2021, 16, 108-116.	0.8	2
80	Identification and utilization of genetic determinants of trait measurement errors in image-based, high-throughput phenotyping. Plant Cell, 2021, 33, 2562-2582.	3.1	6
81	Review of Current COVID-19 Diagnostics and Opportunities for Further Development. Frontiers in Medicine, 2021, 8, 615099.	1.2	103
82	Pan-Genome miRNomics in Brachypodium. Plants, 2021, 10, 991.	1.6	2
83	Benign vs malignant pancreatic lesions: Molecular insights to an ongoing debate. World Journal of Gastrointestinal Surgery, 2021, 13, 406-418.	0.8	4
84	Principles and Practical Considerations for the Analysis of Disease-Associated Alternative Splicing Events Using the Gateway Cloning-Based Minigene Vectors pDESTsplice and pSpliceExpress. International Journal of Molecular Sciences, 2021, 22, 5154.	1.8	8
85	Culturing Human Gut Microbiomes in the Laboratory. Annual Review of Microbiology, 2021, 75, 49-69.	2.9	11
86	Assessment of the Implementation of Pharmacogenomic Testing in a Pediatric Tertiary Care Setting. JAMA Network Open, 2021, 4, e2110446.	2.8	22
87	Screening of Candidate Pathogenic Genes for Spontaneous Abortion using Whole Exome Sequencing. Combinatorial Chemistry and High Throughput Screening, 2021, 24, .	0.6	0
89	Genome of the Single Human Chromosome 18 as a “Gold Standard” for Its Transcriptome. Frontiers in Genetics, 2021, 12, 674534.	1.1	7
90	Genomics as a potential tool to unravel the rhizosphere microbiome interactions on plant health. Journal of Microbiological Methods, 2021, 185, 106215.	0.7	16
91	Molecular techniques for the genomic viral RNA detection of West Nile, Dengue, Zika and Chikungunya arboviruses: a narrative review. Expert Review of Molecular Diagnostics, 2021, 21, 591-612.	1.5	5
93	Successful Pregnancy Following Preimplantation Genetic Diagnosis of Adrenoleukodystrophy by Detection of Mutation on the ABCD1 Gene. The Application of Clinical Genetics, 2021, Volume 14, 313-319.	1.4	2
94	OMICs, Epigenetics, and Genome Editing Techniques for Food and Nutritional Security. Plants, 2021, 10, 1423.	1.6	15

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95	CD14 Involvement in Third-degree Skin Burn-induced Myocardial Injury via the MAPK Signaling Pathway. <i>Cell Biochemistry and Biophysics</i> , 2021, , 1.	0.9	1
96	A review on application of next-generation sequencing methods for profiling of protozoan parasites in water: Current methodologies, challenges, and perspectives. <i>Journal of Microbiological Methods</i> , 2021, 187, 106269.	0.7	12
97	Combinatorial technology revitalized by DNAâ€œencoding. <i>MedComm</i> , 2021, 2, 481-489.	3.1	8
98	Current and future challenges in quality assurance in molecular diagnostics. <i>Clinica Chimica Acta</i> , 2021, 519, 239-246.	0.5	6
100	Efficient assembly consensus algorithms for divergent contig sets. <i>Computational Biology and Chemistry</i> , 2021, 93, 107516.	1.1	1
101	Trends and Applications of Omics Technologies to Functional Characterisation of Enzymes and Protein Metabolites Produced by Fungi. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 700.	1.5	3
102	An NGSâ€œbased approach to identify Yâ€œchromosome variation in nonâ€œobstructive azoospermia. <i>Andrologia</i> , 2021, 53, e14201.	1.0	2
103	PD-L1, TMB, and other potential predictors of response to immunotherapy for hepatocellular carcinoma: how can they assist drug clinical trials?. <i>Expert Opinion on Investigational Drugs</i> , 2022, 31, 415-423.	1.9	78
104	Genetic Diagnosis in Hereditary Hemochromatosis: Discovering and Understanding the Biological Relevance of Variants. <i>Clinical Chemistry</i> , 2021, 67, 1324-1341.	1.5	5
106	FACT-seq: profiling histone modifications in formalin-fixed paraffin-embedded samples with low cell numbers. <i>Nucleic Acids Research</i> , 2021, 49, e125-e125.	6.5	10
107	Selective Single-Cell Sorting Using a Multisectorial Electroactive Nanowell Platform. <i>ACS Nano</i> , 2022, 16, 211-220.	7.3	11
108	Equipping an extraterrestrial laboratory: Overview of open research questions and recommended instrumentation for the Moon. <i>Advances in Space Research</i> , 2021, 68, 2565-2599.	1.2	8
109	Intestinal flora alterations in patients with ulcerative colitis and their association with inflammation. <i>Experimental and Therapeutic Medicine</i> , 2021, 22, 1322.	0.8	18
110	Metabolic Fate of Dietary Glucosinolates and Their Metabolites: A Role for the Microbiome. <i>Frontiers in Nutrition</i> , 2021, 8, 748433.	1.6	12
111	Clinical Application Value of Circulating Cell-free DNA in Hepatocellular Carcinoma. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 736330.	1.6	10
112	Transformation of organic and inorganic sulfurâ€œ adding perspectives to new players in soil and rhizosphere. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108306.	4.2	16
113	Next Generation Sequencing Technology in Lung Cancer Diagnosis. <i>Biology</i> , 2021, 10, 864.	1.3	28
114	Clinical and molecular characteristics of imerslundâ€œGrÃ„sbeck syndrome: First report of a novel Frameshift variant in Exon 11 of AMN gene. <i>International Journal of Laboratory Hematology</i> , 2021, 43, 1009-1015.	0.7	4

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115	Sequencing approaches. , 2021, , 87-122.		1
116	Soil microbiota manipulation and its role in suppressing soil-borne plant pathogens in organic farming systems under the light of microbiome-assisted strategies. <i>Chemical and Biological Technologies in Agriculture</i> , 2020, 7, .	1.9	66
117	Genetic tests by next-generation sequencing in children with developmental delay and/or intellectual disability. <i>Clinical and Experimental Pediatrics</i> , 2020, 63, 195-202.	0.9	29
118	New Omicsâ€”Derived Perspectives on Retinal Dystrophies: Could Ion Channels-Encoding or Related Genes Act as Modifier of Pathological Phenotype?. <i>International Journal of Molecular Sciences</i> , 2021, 22, 70.	1.8	34
119	Accelerating protein biomarker discovery and translation from proteomics research for clinical utility. <i>Bioanalysis</i> , 2020, 12, 1469-1481.	0.6	10
120	Labelâ€”Free Identification of Single Mononucleotides by Nanoscale Electrophoresis. <i>Small</i> , 2021, 17, e2102567.	5.2	8
121	Estimation of Gene Regulatory Networks from Cancer Transcriptomics Data. <i>Processes</i> , 2021, 9, 1758.	1.3	2
122	Isolation of Murine Retinal Endothelial Cells for Next-Generation Sequencing. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	0
123	BRAFV600E Mutant Allele Frequency (MAF) Influences Melanoma Clinicopathologic Characteristics. <i>Cancers</i> , 2021, 13, 5073.	1.7	2
124	Metagenomic and Metatranscriptomic Insight Into Oral Biofilms in Periodontitis and Related Systemic Diseases. <i>Frontiers in Microbiology</i> , 2021, 12, 728585.	1.5	6
125	Assessing Host-Pathogen Interaction Networks via RNA-Seq Profiling: A Systems Biology Approach. , 0, , .		1
126	Bayesian Phylogenomic Dating. , 2020, , 221-249.		2
127	Role of noncoding RNAs in cholangiocarcinoma (Review). <i>International Journal of Oncology</i> , 2020, 57, 7-20.	1.4	5
128	Complete Draft Genome Sequence of <i>Cutibacterium</i> ( <i>Propionibacterium</i> ) <i>acnes</i> Type Strain ATCC6919. <i>International Journal of Dermatology and Venereology</i> , 2020, 3, 225-227.	0.1	0
130	Choices on sampling, sequencing, and analyzing DNA influence the estimation of community composition of plant fungal symbionts. <i>Applications in Plant Sciences</i> , 2021, 9, e11449.	0.8	2
131	Comparative RNA-Seq Analysis Reveals Potentially Resistance-Related Genes in Response to Bacterial Canker of Tomato. <i>Genes</i> , 2021, 12, 1745.	1.0	5
132	Short- and Long-Term Implications of Human Milk Microbiota on Maternal and Child Health. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11866.	1.8	7
133	Visualizing Codon Usage Within and Across Genomes: Concepts and Tools. <i>Algorithms for Intelligent Systems</i> , 2020, , 213-288.	0.5	0



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134	Advanced cell culture techniques for cancer research. ChemistrySelect, 2022, 7, 1421-1441.	0.7	0
135	Approximate kNN Classification for Biomedical Data. , 2020, , .		6
136	What sequencing technologies can teach us about innate immunity*. Immunological Reviews, 2022, 305, 9-28.	2.8	3
137	Comparative analysis of human facial skin microbiome between topical sites compared to entire face. Genes and Genomics, 2021, 43, 1483-1495.	0.5	7
138	Bioengineering â€œ Current Applications and Future Perspectives. Proceedings of the Technical University of Sofia, 2021, 71, .	0.1	0
140	The storm of NGS in NSCLC diagnostic-therapeutic pathway: How to sun the real clinical practice. Critical Reviews in Oncology/Hematology, 2022, 169, 103561.	2.0	16
141	Avian genomics. , 2022, , 7-16.		0
142	Toxicogenomics: A Primer for Toxicologic Pathologists. , 2022, , 491-543.		0
143	The Genetics of Inherited Cholestatic Disorders in Neonates and Infants: Evolving Challenges. Genes, 2021, 12, 1837.	1.0	7
144	Genome-Wide DNA Polymorphism Analysis and Molecular Marker Development for the <i>Setaria italica</i> Variety â€œSSR41â€ and Positional Cloning of the <i>Setaria</i> White Leaf Sheath Gene SiWLS1. Frontiers in Plant Science, 2021, 12, 743782.	1.7	2
146	Batch effects in population genomic studies with lowâ€œcoverage whole genome sequencing data: Causes, detection and mitigation. Molecular Ecology Resources, 2022, 22, 1678-1692.	2.2	15
147	Pitfalls and pointers: An accessible guide to marker gene amplicon sequencing in ecological applications. Methods in Ecology and Evolution, 2022, 13, 266-277.	2.2	6
148	The classification of dwarf mistletoes ( <i>Arceuthobium</i> spp., Viscaceae) in section <i>Campylopoda</i> , series <i>Campylopoda</i> . Botany, 2022, 100, 1-31.	0.5	2
149	Utilizing CRISPR-Cas in Tropical Crop Improvement: A Decision Process for Fitting Genome Engineering to Your Species. Frontiers in Genetics, 2021, 12, 786140.	1.1	0
150	Next-Generation Sequencing Targeted Panel in Routine Care for Metastatic Colon Cancers. Cancers, 2021, 13, 5750.	1.7	4
151	Research progress in the taxonomic identification of algae on the basis of molecular markers. Hupo Kexue/Journal of Lake Sciences, 2021, 33, 1607-1625.	0.3	2
152	A review on the application of bioinformatics tools in food microbiome studies. Briefings in Bioinformatics, 2022, 23, .	3.2	5
153	A simple guide to <i>de novo</i> transcriptome assembly and annotation. Briefings in Bioinformatics, 2022, 23, .	3.2	42

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154	Target-enriched sequencing enables accurate identification of bloodstream infections in whole blood. <i>Journal of Microbiological Methods</i> , 2022, 192, 106391.	0.7	1
155	The emerging roles of NGS in clinical oncology and personalized medicine. <i>Pathology Research and Practice</i> , 2022, 230, 153760.	1.0	25
156	Non-Parametric Genomic Fourier Power Spectra Filter Designs. , 2021, , .		2
157	What Has the Undiagnosed Diseases Network Taught Us About the Clinical Applications of Genomic Testing?. <i>Annual Review of Medicine</i> , 2022, 73, 575-585.	5.0	11
158	Next-generation sequencing markup language (NGSML): a medium for the representation and exchange of NGS data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2022, PP, 1-1.	1.9	2
159	Large-Area Interfaces for Single-Molecule Label-free Bioelectronic Detection. <i>Chemical Reviews</i> , 2022, 122, 4636-4699.	23.0	43
160	New mutation of the TP53 gene associated with the hereditary breast cancer in a young Tuvianian woman. <i>Siberian Journal of Oncology</i> , 2022, 20, 164-170.	0.1	0
162	Removing the Bottleneck: Introducing cMatch - A Lightweight Tool for Construct-Matching in Synthetic Biology. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 785131.	2.0	1
163	Cultivation and Diversity of Marine Actinomycetes: Molecular Approaches and Bioinformatics Tools. , 2022, , 215-240.		3
164	Advances, challenges, and opportunities in DNA sequencing technology. , 2022, , 31-43.		0
165	End-User Perspectives on Using Quantitative Real-Time PCR and Genomic Sequencing in the Field. <i>Tropical Medicine and Infectious Disease</i> , 2022, 7, 6.	0.9	2
166	A qRT-PCR Method Capable of Quantifying Specific Microorganisms Compared to NGS-Based Metagenome Profiling Data. <i>Microorganisms</i> , 2022, 10, 324.	1.6	6
167	Enhanced Optical Spectroscopy for Multiplexed DNA and Protein-Sequencing with Plasmonic Nanopores: Challenges and Prospects. <i>Analytical Chemistry</i> , 2022, 94, 503-514.	3.2	25
168	Virtual Digital Twins. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2022, , 1-23.	0.4	1
169	Clinical and Genetic Survey for Charcot-Marie-Tooth Neuropathy Based on the Findings in Turkey, a Country with a High Rate of Consanguineous Marriages. <i>Balkan Medical Journal</i> , 2022, 39, 3-11.	0.3	4
170	Plant DNA barcoding and metabolomics for comprehensive discrimination of German Chamomile from its poisonous adulterants for food safety. <i>Food Control</i> , 2022, 136, 108840.	2.8	8
171	Target sequence capture of Barnadesioideae (Compositae) demonstrates the utility of low coverage loci in phylogenomic analyses. <i>Molecular Phylogenetics and Evolution</i> , 2022, 169, 107432.	1.2	9
172	Blood Group Testing. <i>Frontiers in Medicine</i> , 2022, 9, 827619.	1.2	13

#	ARTICLE	IF	CITATIONS
173	Opportunity of Next-Generation Sequencing-Based Short Tandem Repeat System for Tumor Source Identification. <i>Frontiers in Oncology</i> , 2022, 12, 800028.	1.3	2
174	Synthetic metabolism approaches: A valuable resource for systems biology. <i>Current Opinion in Systems Biology</i> , 2022, 30, 100417.	1.3	2
175	Applications of DNA Sequencing Technologies for Current Research. <i>Techniques in Life Science and Biomedicine for the Non-expert</i> , 2022, , 179-195.	0.1	0
176	Relevant Principles of Next-Generation Sequencing. <i>Hans Journal of Biomedicine</i> , 2022, 12, 73-79.	0.0	0
177	Artificial Intelligence for Precision Oncology. <i>Advances in Experimental Medicine and Biology</i> , 2022, 1361, 249-268.	0.8	10
178	The Utility of Genomic Testing for Hyperphenylalaninemia. <i>Journal of Clinical Medicine</i> , 2022, 11, 1061.	1.0	4
179	Cancer proteogenomics: current impact and future prospects. <i>Nature Reviews Cancer</i> , 2022, 22, 298-313.	12.8	79
180	Genetic Diversity Maximization as a Strategy for Resilient Forest Ecosystems: A Case Study on Norway Spruce. <i>Forests</i> , 2022, 13, 489.	0.9	4
181	Amplicon_sorter: A tool for reference-free amplicon sorting based on sequence similarity and for building consensus sequences. <i>Ecology and Evolution</i> , 2022, 12, e8603.	0.8	14
182	Investigation on the genetic-inconsistent paternity cases using the MiSeq FGx system. <i>Forensic Sciences Research</i> , 0, , 1-6.	0.9	0
183	Research perspectives Pipelines to human tendon transcriptomics. <i>Journal of Orthopaedic Research</i> , 2022, , .	1.2	3
184	A Custom DNA-Based NGS Panel for the Molecular Characterization of Patients With Diffuse Gliomas: Diagnostic and Therapeutic Applications. <i>Frontiers in Oncology</i> , 2022, 12, 861078.	1.3	16
185	High-Throughput Monoclonal Antibody Discovery from Phage Libraries: Challenging the Current Preclinical Pipeline to Keep the Pace with the Increasing mAb Demand. <i>Cancers</i> , 2022, 14, 1325.	1.7	14
186	Incremental net benefit of whole genome sequencing for newborns and children with suspected genetic disorders: Systematic review and meta-analysis of cost-effectiveness evidence. <i>Health Policy</i> , 2022, 126, 337-345.	1.4	11
187	Full-Length Transcriptome Analysis of the Halophyte <i>Nitraria sibirica</i> Pall. <i>Genes</i> , 2022, 13, 661.	1.0	8
188	Genetics Matters: Voyaging from the Past into the Future of Humanity and Sustainability. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3976.	1.8	1
189	Cell-Free Tumor DNA (cf-tDNA) Liquid Biopsy: Current Methods and Use in Brain Tumor Immunotherapy. <i>Frontiers in Immunology</i> , 2022, 13, 882452.	2.2	9
190	Nitrogen transformation in slightly polluted surface water by a novel biofilm reactor: Long-term performance and microbial population characteristics. <i>Science of the Total Environment</i> , 2022, 829, 154623.	3.9	3

#	ARTICLE	IF	CITATIONS
191	A review of durian plant-bat pollinator interactions. <i>Journal of Plant Interactions</i> , 2022, 17, 105-126.	1.0	3
192	Improving microalgae for biotechnology “ From genetics to synthetic biology “ Moving forward but not there yet. <i>Biotechnology Advances</i> , 2022, 58, 107885.	6.0	20
193	Third-Generation Sequencing: The Spearhead towards the Radical Transformation of Modern Genomics. <i>Life</i> , 2022, 12, 30.	1.1	67
194	Predictive Biomarkers for Checkpoint Inhibitor-Based Immunotherapy in Hepatocellular Carcinoma: Where Do We Stand?. <i>Frontiers in Oncology</i> , 2021, 11, 803133.	1.3	83
195	Comprehensive analysis of chloroplast genome of <i>Albizia julibrissin</i> Durazz. ( <i>Leguminosae</i> sp.). <i>Planta</i> , 2022, 255, 26.	1.6	11
196	High-throughput genetic engineering tools for regulating gene expression in a microbial cell factory. <i>Critical Reviews in Biotechnology</i> , 2023, 43, 82-99.	5.1	8
197	Development of a T-cell activation-related module with predictive value for the prognosis and immune checkpoint blockade therapy response in glioblastoma. <i>PeerJ</i> , 2021, 9, e12547.	0.9	1
198	Tools and Techniques Used in Forensic DNA Typing. , 2022, , 119-149.		1
199	Which role for predictors of response to immune checkpoint inhibitors in hepatocellular carcinoma?. <i>Expert Review of Gastroenterology and Hepatology</i> , 2022, 16, 333-339.	1.4	65
201	Whole-genome sequencing and genetic characteristics of representative porcine reproductive and respiratory syndrome virus (PRRSV) isolates in Korea. <i>Virology Journal</i> , 2022, 19, 66.	1.4	13
204	Next-generation sequencing and viroid research. , 2022, , 373-382.		0
205	Moving beyond Titers. <i>Vaccines</i> , 2022, 10, 683.	2.1	1
206	Statistical Analysis of Simple Sequence Repeats in Genome Sequence: A Case of <i>Acheta Domesticus</i> (Orthoptera: Gryllidae). <i>ECS Transactions</i> , 2022, 107, 14799-14806.	0.3	1
207	The diagnostic utility of RNA-based fusion panel testing ordered by pathologists in challenging cases. <i>Annals of Diagnostic Pathology</i> , 2022, , 151957.	0.6	0
208	Liquid Biopsy in Squamous Cell Carcinoma of the Esophagus and of the Head and Neck. <i>Frontiers in Medicine</i> , 2022, 9, 827297.	1.2	7
209	Validating Amino Acid Variants in Proteogenomics Using Sequence Coverage by Multiple Reads. <i>Journal of Proteome Research</i> , 2022, 21, 1438-1448.	1.8	6
210	Transposable elements in plants: Recent advancements, tools and prospects. <i>Plant Molecular Biology Reporter</i> , 0, , 1.	1.0	9
211	Opportunities and challenges of using metagenomic data to bring uncultured microbes into cultivation. <i>Microbiome</i> , 2022, 10, 76.	4.9	59

#	ARTICLE	IF	CITATIONS
214	Characterisation of Salmonella Enteritidis ST11 and ST1925 Associated with Human Intestinal and Extra-Intestinal Infections in Singapore. International Journal of Environmental Research and Public Health, 2022, 19, 5671.	1.2	5
215	Clean and Safe Drinking Water Systems via Metagenomics Data and Artificial Intelligence: State-of-the-Art and Future Perspective. Frontiers in Microbiology, 2022, 13, .	1.5	2
217	<i>Listeria monocytogenes</i> in foods—From culture identification to whole-genome characteristics. Food Science and Nutrition, 2022, 10, 2825-2854.	1.5	7
218	Exploring molecular biology in sequence space: The road to next-generation single-molecule biophysics. Molecular Cell, 2022, 82, 1788-1805.	4.5	3
219	Removal of nitrate from agricultural runoff in biochar electrode based biofilm reactor: Performance and enhancement mechanisms. Chemosphere, 2022, 301, 134744.	4.2	5
221	Predictors of response for hepatocellular carcinoma immunotherapy: is there anything on the horizon?. Expert Review of Precision Medicine and Drug Development, 2022, 7, 50-57.	0.4	1
223	Reconstruction of full antibody sequences in NGS datasets and accurate VL:VH coupling by cluster coordinate matching of non-overlapping reads. Computational and Structural Biotechnology Journal, 2022, 20, 2723-2727.	1.9	1
224	Genome-wide core sets of SNP markers and Fluidigm assays for rapid and effective genotypic identification of Korean cultivars of lettuce ( <i>Lactuca sativa</i> L.). Horticulture Research, 2022, 9, .	2.9	5
225	Nested association mapping population in crops: current status and future prospects. Journal of Crop Science and Biotechnology, 0, , .	0.7	1
226	Applications of omics in life detection beyond Earth. , 2022, , 193-219.		0
227	Updates on Genomic Resources for Crop Improvement. Springer Protocols, 2022, , 13-29.	0.1	1
228	Probe Capture Enrichment Methods for HIV and HCV Genome Sequencing and Drug Resistance Genotyping. Pathogens, 2022, 11, 693.	1.2	3
229	Research progress of gut microbiota in hepatocellular carcinoma. Journal of Clinical Laboratory Analysis, 0, , .	0.9	5
230	Influenza A, Influenza B, and SARS-CoV-2 Similarities and Differences – A Focus on Diagnosis. Frontiers in Microbiology, 0, 13, .	1.5	14
231	Recent Advances in the Use of Molecular Methods for the Diagnosis of Bacterial Infections. Pathogens, 2022, 11, 663.	1.2	12
232	SNIKT: sequence-independent adapter identification and removal in long-read shotgun sequencing data. Bioinformatics, 2022, 38, 3830-3832.	1.8	4
233	Proteotranscriptomics – A facilitator in omics research. Computational and Structural Biotechnology Journal, 2022, 20, 3667-3675.	1.9	4
234	Biotechnology in Medicine: Advances-I. , 2022, , 67-92.		1

#	ARTICLE	IF	CITATIONS
235	Advances in Microfluidics for the Implementation of Liquid Biopsy in Clinical Routine. <i>Advances in Experimental Medicine and Biology</i> , 2022, , 553-590.	0.8	2
237	PRODUCTION OF MANNOSYLERYTHRITOL LIPIDS: BIOSYNTHESIS, MULTI-OMICS APPROACHES AND COMMERCIAL EXPLOITATION. <i>Molecular Omics</i> , 0, .	1.4	0
238	Cancer Risk and Mutational Patterns Following Organ Transplantation. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	1
239	Detection of respiratory viruses directly from clinical samples using next-generation sequencing: A literature review of recent advances and potential for routine clinical use. <i>Reviews in Medical Virology</i> , 2022, 32, .	3.9	11
240	Skin Microbiota and the Cosmetic Industry. <i>Microbial Ecology</i> , 2023, 86, 86-96.	1.4	4
241	Amplifying Quantum Tunneling Current Sensitivity through Labeling Nucleotides Using Graphene Nanogap Electrodes. <i>ACS Applied Nano Materials</i> , 2022, 5, 9356-9366.	2.4	7
242	Comparative full-length transcriptome analysis by Oxford Nanopore Technologies reveals genes involved in anthocyanin accumulation in storage roots of sweet potatoes ( <i>Ipomoea batatas</i> L.). <i>PeerJ</i> , 0, 10, e13688.	0.9	4
243	Advancing precision medicines for ocular disorders: Diagnostic genomics to tailored therapies. <i>Frontiers in Medicine</i> , 0, 9, .	1.2	6
244	Capturing the latent space of an Autoencoder for multi-omics integration and cancer subtyping. <i>Computers in Biology and Medicine</i> , 2022, 148, 105832.	3.9	7
245	Advances in detecting N6-methyladenosine modification in circRNAs. <i>Methods</i> , 2022, 205, 234-246.	1.9	5
246	The contribution of whole-exome sequencing to intellectual disability diagnosis and knowledge of underlying molecular mechanisms: A systematic review and meta-analysis. <i>Mutation Research - Reviews in Mutation Research</i> , 2022, 790, 108428.	2.4	11
247	A Comparison of Bioinformatics Pipelines for Enrichment Illumina Next Generation Sequencing Systems in Detecting SARS-CoV-2 Virus Strains. <i>Genes</i> , 2022, 13, 1330.	1.0	3
248	Organelle 16S rRNA amplicon sequencing enables profiling of active gut microbiota in murine model. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 5715-5728.	1.7	3
249	Forty Years of Molecular Diagnostics for Infectious Diseases. <i>Journal of Clinical Microbiology</i> , 2022, 60, .	1.8	23
250	Single-Circulating Tumor Cell Whole Genome Amplification to Unravel Cancer Heterogeneity and Actionable Biomarkers. <i>International Journal of Molecular Sciences</i> , 2022, 23, 8386.	1.8	10
251	Next-generation sequencing (NGS) reveals low-abundance HIV-1 drug resistance mutations among patients experiencing virological failure at the time of therapy switching in Uganda. <i>F1000Research</i> , 0, 11, 901.	0.8	1
252	The Mexican flora as a case study in systematics: a meta-analysis of GenBank accessions. <i>Botanical Sciences</i> , 0, 100, .	0.3	1
253	Rapid and simple analysis of short and long sequencing reads using Duesselpore™. <i>Frontiers in Genetics</i> , 0, 13, .	1.1	2

#	ARTICLE	IF	CITATIONS
254	Viral informatics: bioinformatics-based solution for managing viral infections. Briefings in Bioinformatics, 2022, 23, .	3.2	10
256	Profiling mouse cochlear cell maturation using 10X Genomics single-cell transcriptomics. Frontiers in Cellular Neuroscience, 0, 16, .	1.8	11
257	Single-cell sequencing: A cutting edge tool in molecular medical research. Medical Journal Armed Forces India, 2022, 78, S7-S13.	0.3	1
258	Editorial: Extremophiles: Microbial genomics and taxogenomics. Frontiers in Microbiology, 0, 13, .	1.5	1
259	Comparative of clinical performance between next-generation sequencing and standard blood culture diagnostic method in patients suffering from sepsis. Journal of Microbiology, Immunology and Infection, 2022, 55, 845-852.	1.5	4
260	Metabarcoding and Digital PCR (dPCR): Application in the Study of Neglected Tropical Diseases. , 0, , .		0
262	MinION Nanopore Sequencing Accelerates Progress towards Ubiquitous Genetics in Water Research. Water (Switzerland), 2022, 14, 2491.	1.2	9
263	Bioinformatics: From NGS Data to Biological Complexity in Variant Detection and Oncological Clinical Practice. Biomedicines, 2022, 10, 2074.	1.4	10
264	Current Cellular and Molecular Biology Techniques for the Orthopaedic Surgeon-Scientist. Journal of Shoulder and Elbow Surgery, 2022, , .	1.2	0
265	Species-specific identification of Pseudomonas based on 16S and 23S rRNA gene internal transcribed spacer (ITS) and its combined application with next-generation sequencing. BMC Microbiology, 2022, 22, .	1.3	6
266	Transcriptome analysis revealed the expression levels of genes related to abscisic acid and auxin biosynthesis in grapevine (Vitis vinifera L.) under root restriction. Frontiers in Plant Science, 0, 13, .	1.7	2
267	Deep Learning Concepts and Applications for Synthetic Biology. , 2022, 1, 360-371.		4
268	Carotenoids in Drug Discovery and Medicine: Pathways and Molecular Targets Implicated in Human Diseases. Molecules, 2022, 27, 6005.	1.7	20
269	Multi-omics research strategies in ischemic stroke: A multidimensional perspective. Ageing Research Reviews, 2022, 81, 101730.	5.0	15
270	High-Throughput Sequencing Technologies in Metagenomics: Advanced Approaches for Algal Research. , 2022, , 545-569.		1
271	Analysis of Gut Microbiome Using Fecal Samples. Methods in Molecular Biology, 2022, , 287-299.	0.4	1
272	DNA Technologies in Precision Medicine and Pharmacogenetics. , 2022, , 129-149.		0
273	Metagenomics in bioremediation: Recent advances, challenges, and perspectives. , 2023, , 81-102.		2

#	ARTICLE	IF	CITATIONS
274	Defining the baseline of pulmonary microbiota in healthy populations and influencing factors. , 0, 11, 38-48.		1
275	Preimplantation genetic testing for aneuploidy improves clinical outcomes in patients with repeated implantation failure. <i>Reproductive and Developmental Medicine</i> , 2023, 7, 12-19.	0.2	1
276	Metabolization and sequestration of plant specialized metabolites in insect herbivores: Current and emerging approaches. <i>Frontiers in Physiology</i> , 0, 13, .	1.3	4
278	Next-generation sequencing errors due to genetic variation in <i>WRAP53</i> encoding TCAB1 on chromosome 17. <i>Human Mutation</i> , 0, , .	1.1	0
279	Exploring the epitranscriptome by native RNA sequencing. <i>Rna</i> , 2022, 28, 1430-1439.	1.6	21
281	Biomolecular Mechanisms of Autoimmune Diseases and Their Relationship with the Resident Microbiota: Friend or Foe?. <i>Pathophysiology</i> , 2022, 29, 507-536.	1.0	10
282	A novel germline mutation of the <i>PALB</i> gene in a young Yakut breast cancer woman. <i>Siberian Journal of Oncology</i> , 2022, 21, 72-79.	0.1	2
283	Isolation and characterization of two novel serotypes of Tibet orbivirus from <i>Culicoides</i> and sentinel cattle in Yunnan Province of China. <i>Transboundary and Emerging Diseases</i> , 2022, 69, 3371-3387.	1.3	2
284	Next-generation sequencing in the biodiversity conservation of endangered medicinal plants. <i>Environmental Science and Pollution Research</i> , 2022, 29, 73795-73808.	2.7	2
285	First genetic maps development and QTL mining in <i>Ranunculus asiaticus</i> L. through ddRADseq. <i>Frontiers in Plant Science</i> , 0, 13, .	1.7	3
286	Integrating Micro and Nano Technologies for Cell Engineering and Analysis: Toward the Next Generation of Cell Therapy Workflows. <i>ACS Nano</i> , 2022, 16, 15653-15680.	7.3	5
287	The impact of single-cell genomics on the field of mycobacterial infection. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	3
288	Effective data filtering is prerequisite for robust microbial association network construction. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	1
290	SARS-CoV-2 detection methods: A comprehensive review. <i>Saudi Journal of Biological Sciences</i> , 2022, 29, 103465.	1.8	22
291	Detection and Identification of Soil-Borne Pathogens: Classical to Recent Updates. <i>Microorganisms for Sustainability</i> , 2022, , 1-45.	0.4	1
292	Towards Graphene Semi/Hybrid-Nanogap: A New Architecture for Ultrafast DNA Sequencing. <i>Nanoscale</i> , 0, , .	2.8	0
293	Human Retrotransposons and Effective Computational Detection Methods for Next-Generation Sequencing Data. <i>Life</i> , 2022, 12, 1583.	1.1	3
294	Novel insights on genes and pathways involved in <i>Pinus elliottii</i> response to resinosis. <i>Tree Physiology</i> , 0, , .	1.4	1



#	ARTICLE	IF	CITATIONS
295	Long-read sequence analysis for clustered genomic copy number aberrations revealed architectures of intricately intertwined rearrangements. <i>American Journal of Medical Genetics, Part A</i> , 0, , .	0.7	1
296	Role of gene sequencing in the diagnosis, tracking and prevention of parasitic diseases – A brief review. <i>Journal of the Academy of Clinical Microbiologists</i> , 2022, 24, 32.	0.2	0
297	Testing viral infections. , 2023, , 99-120.		0
298	Multi-Function CIM Array for Genome Alignment Applications built with Fully Digital Flow. , 2022, , .		3
299	Application of NGS molecular classification in the diagnosis of endometrial carcinoma: A supplement to traditional pathological diagnosis. <i>Cancer Medicine</i> , 0, , .	1.3	3
300	Seminal and vagino-uterine microbiome and their individual and interactive effects on cattle fertility. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	14
301	A history of adventitious agent contamination and the current methods to detect and remove them from pharmaceutical products. <i>Biologicals</i> , 2022, 80, 6-17.	0.5	1
302	Next generation sequencing technologies to explore the diversity of germplasm resources: Achievements and trends in tomato. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 6250-6258.	1.9	4
303	Usage of DNA Fingerprinting Technology to Check Sample Error and Contamination in Molecular Laboratories. <i>Current Issues in Molecular Biology</i> , 2022, 44, 5543-5549.	1.0	0
304	Polymorphic Microsatellite Development, Genetic Diversity, Population Differentiation and Sexual State of <i>Phytophthora capsici</i> on Commercial Peppers in Three Provinces of Southwest China. <i>Applied and Environmental Microbiology</i> , 0, , .	1.4	1
305	USAT: a bioinformatic toolkit to facilitate interpretation and comparative visualization of tandem repeat sequences. <i>BMC Bioinformatics</i> , 2022, 23, .	1.2	3
306	Single-Molecule Real-Time Sequencing of Full-Length Transcriptome and Identification of Genes Related to Male Development in <i>Cannabis sativa</i> . <i>Plants</i> , 2022, 11, 3559.	1.6	0
307	Evaluating Genetic Disorders in the Neonate: The Role of Exome Sequencing in the NICU. <i>NeoReviews</i> , 2022, 23, e829-e840.	0.4	1
308	A Step toward Amino Acid-Labeled DNA Sequencing: Boosting Transmission Sensitivity of Graphene Nanogap. <i>ACS Applied Bio Materials</i> , 2023, 6, 218-227.	2.3	2
309	Omics as a Tool to Help Determine the Effectiveness of Supplements. <i>Nutrients</i> , 2022, 14, 5305.	1.7	1
310	Next-generation sequencing in breast pathology: real impact on routine practice over a decade since its introduction. <i>Histopathology</i> , 2023, 82, 162-169.	1.6	2
311	A narrative review of cancer molecular diagnostics: past, present, and future. <i>Journal of Bio-X Research</i> , 0, Publish Ahead of Print, .	0.3	0
312	Next-generation sequencing amplicon analysis of the genetic diversity of <i>Eimeria</i> populations in livestock and wildlife samples from Australia. <i>Parasitology Research</i> , 2023, 122, 615-624.	0.6	3

#	ARTICLE	IF	CITATIONS
313	Comparison of ultrasound and UV technologies to control bulking and foaming in a wastewater treatment facility. A case study in an industrial park in Morelos, Mexico. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	0
314	Third-Generation Sequencing of Epigenetic DNA. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	8
315	Capture-SELEX: Selection Strategy, Aptamer Identification, and Biosensing Application. <i>Biosensors</i> , 2022, 12, 1142.	2.3	6
316	Transcriptomic analysis of testis and epididymis tissues from Banna mini-pig inbred line boars with single-molecule long-read sequencing. <i>Biology of Reproduction</i> , 2023, 108, 465-478.	1.2	2
317	The consequences of recurrent genetic and epigenetic variants in human pluripotent stem cells. <i>Cell Stem Cell</i> , 2022, 29, 1624-1636.	5.2	22
318	Next-generation sequencing technology: a boon to agriculture. <i>Genetic Resources and Crop Evolution</i> , 2023, 70, 353-372.	0.8	2
319	Comparison of genotyping by sequencing procedures to determine population genetic structure. <i>Functional and Integrative Genomics</i> , 2023, 23, .	1.4	2
321	Third Generation Sequencing of Epigenetic DNA. <i>Angewandte Chemie</i> , 0, , .	1.6	1
322	Identification of Fish Species and Targeted Genetic Modifications Based on DNA Analysis: State of the Art. <i>Foods</i> , 2023, 12, 228.	1.9	17
323	New era in the diagnosis and treatment of pediatric genetic diseases. <i>Pediatrics and Neonatology</i> , 2023, , .	0.3	0
324	Editorial: Application in evolutionary novelties and diversities: Medicine, agriculture, and conservation. <i>Frontiers in Genetics</i> , 0, 13, .	1.1	0
325	Liquid biopsy in pediatric brain tumors. <i>Frontiers in Genetics</i> , 0, 13, .	1.1	3
326	Be positive: customized reference databases and new, local barcodes balance false taxonomic assignments in metabarcoding studies. <i>PeerJ</i> , 0, 11, e14616.	0.9	11
327	The Diagnostic Value of Blood Next-Generation Sequencing in Early Surgical Site Infection After Spine Surgery. <i>International Journal of General Medicine</i> , 0, Volume 16, 37-45.	0.8	0
328	Spectrum of Genetic Variants in the Dystrophin Gene: A Single Centre Retrospective Analysis of 750 Duchenne and Becker Patients from Southern Italy. <i>Genes</i> , 2023, 14, 214.	1.0	5
329	Polydopamine-coated 3D-printed $\beta$ -tricalcium phosphate scaffolds to promote the adhesion and osteogenesis of BMSCs for bone-defect repair: mRNA transcriptomic sequencing analysis. <i>Journal of Materials Chemistry B</i> , 2023, 11, 1725-1738.	2.9	3
330	Focus on the molecular mechanisms of cisplatin resistance based on multi-omics approaches. <i>Molecular Omics</i> , 0, , .	1.4	5
331	A single high-dose irradiation changes accumulation of methotrexate and gene expression levels of SLC and ABC transporters in cancer cells. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	1

#	ARTICLE	IF	CITATIONS
332	Model-based assessment of sampling protocols for infectious disease genomic surveillance. <i>Chaos, Solitons and Fractals</i> , 2023, 167, 113093.	2.5	1
333	Discovery of untapped nonculturable microbes for exploring novel industrial enzymes based on advanced next-generation metagenomic approach. , 2023, , 753-775.		0
334	Development and Perspective of <i>Rhodotorula toruloides</i> as an Efficient Cell Factory. <i>Journal of Agricultural and Food Chemistry</i> , 2023, 71, 1802-1819.	2.4	5
335	Machine Learning Methods for Cancer Classification Using Gene Expression Data: A Review. <i>Bioengineering</i> , 2023, 10, 173.	1.6	25
336	Powering Toxicogenomic Studies by Applying Machine Learning to Genomic Sequencing and Variant Detection. <i>Computational Methods in Engineering &amp; the Sciences</i> , 2023, , 611-627.	0.3	0
337	AI-Powered Diagnosis of Skin Cancer: A Contemporary Review, Open Challenges and Future Research Directions. <i>Cancers</i> , 2023, 15, 1183.	1.7	12
338	Scientific Advancements That Empower Us to Understand CRS Pathophysiology. <i>American Journal of Rhinology and Allergy</i> , 2023, 37, 221-226.	1.0	2
339	In silico evaluation and selection of the best 16S rRNA gene primers for use in next-generation sequencing to detect oral bacteria and archaea. <i>Microbiome</i> , 2023, 11, .	4.9	4
340	Profiling DNA Ligase Substrate Specificity with a Pacific Biosciences Single-Molecule Real-Time Sequencing Assay. <i>Current Protocols</i> , 2023, 3, .	1.3	3
341	Biodiversity of Basidiomycetous Yeasts Associated with <i>Cladonia rei</i> Lichen in Japan, with a Description of <i>Microsporomyces cladoniophilus</i> sp. nov. <i>Journal of Fungi (Basel, Switzerland)</i> , 2023, 9, 473.	1.5	0
342	<scp>COInr</scp> and <scp>mkCOInr</scp>: Building and customizing a nonredundant barcoding reference database from <scp>BOLD</scp> and <scp>NCBI</scp> using a semi-automated pipeline. <i>Molecular Ecology Resources</i> , 2023, 23, 933-945.	2.2	6
343	A universal and sensitive gene mutation detection method based on CRISPR-Cas12a. <i>Analytica Chimica Acta</i> , 2023, 1246, 340886.	2.6	2
344	System Design Considerations for Automated Digital Data Storage in DNA. , 2022, , .		0
345	Selection, Identification and Functional Performance of Ammonia-Degrading Microbial Communities from an Activated Sludge for Landfill Leachate Treatment. <i>Microorganisms</i> , 2023, 11, 311.	1.6	1
346	Next-generation sequencing approach to molecular diagnosis of Iranian patients with Duchenne/Becker muscular dystrophy: Several novel variants identified. <i>ENeurologicalSci</i> , 2023, 30, 100446.	0.5	1
347	Next-Generation Diagnostics for Pathogens. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2023, 39, 165-173.	0.5	2
348	Current and Emerging Diagnostic Approaches to Bacterial Diseases of Ruminants. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2023, 39, 93-114.	0.5	2
349	North and East African mitochondrial genetic variation needs further characterization towards precision medicine. <i>Journal of Advanced Research</i> , 2023, , .	4.4	0

#	ARTICLE	IF	CITATIONS
350	A path towards personalized medicine for autoinflammatory and related diseases. <i>Nature Reviews Rheumatology</i> , 2023, 19, 182-189.	3.5	5
352	SARS-CoV-2 spike gene Sanger sequencing methodology to identify variants of concern. <i>BioTechniques</i> , 2023, 74, 69-75.	0.8	2
353	Artificial intelligence and high-dimensional technologies in the theragnosis of systemic lupus erythematosus. <i>Lancet Rheumatology</i> , The, 2023, 5, e151-e165.	2.2	3
354	Economic evaluation of next-generation sequencing techniques in diagnosis of genetic disorders: A systematic review. <i>Clinical Genetics</i> , 2023, 103, 513-528.	1.0	2
355	Next-Generation Sequencing: A Promising Tool for Vaccines and Other Biological Products. <i>Vaccines</i> , 2023, 11, 527.	2.1	0
356	MitoFish, MitoAnnotator, and MiFish Pipeline: Updates in 10 Years. <i>Molecular Biology and Evolution</i> , 2023, 40, .	3.5	20
357	Performance Characteristics of Oncomine Focus Assay for Theranostic Analysis of Solid Tumors, A (21-Months) Real-Life Study. <i>Diagnostics</i> , 2023, 13, 937.	1.3	0
358	Genomic, epigenomic, and transcriptomic signatures of prostate cancer between African American and European American patients. <i>Frontiers in Oncology</i> , 0, 13, .	1.3	8
359	Whole-Genome Sequencing-Based Resistome Analysis of Nosocomial Multidrug-Resistant Non-Fermenting Gram-Negative Pathogens from the Balkans. <i>Microorganisms</i> , 2023, 11, 651.	1.6	4
360	Development of a DNA Metabarcoding Method for the Identification of Insects in Food. <i>Foods</i> , 2023, 12, 1086.	1.9	3
361	MR.DRP: A Parameter Adaptive Machine Learning Framework for Drug Response Prediction. , 2022, , .		0
365	Omics-based approaches to guide the design of biomaterials. <i>Materials Today</i> , 2023, 64, 98-120.	8.3	5
366	Molecular profiling of rare thymoma using next-generation sequencing: meta-analysis. <i>Radiology and Oncology</i> , 2023, 57, 12-19.	0.6	2
367	Next generation sequencing and image-guided tissue sampling: a primer for interventional radiologists. <i>Journal of Vascular and Interventional Radiology</i> , 2023, , .	0.2	0
368	Response Evaluation of Neoadjuvant Therapies in Sarcoma. <i>Current Treatment Options in Oncology</i> , 0, , .	1.3	0
369	Identification, Characterization and Use of Microorganisms. , 2023, , 74-119.		0
370	Driver and actionable mutations in younger patients with lung cancer - are we searching properly?. <i>Biomedical Papers of the Medical Faculty of the University Palacky&amp;#x0301;, Olomouc, Czechoslovakia</i> , 0, , .	0.2	0
372	Overview of Genotyping Technologies and Methods. <i>Current Protocols</i> , 2023, 3, .	1.3	4

#	ARTICLE	IF	CITATIONS
373	Hierarchical DNN with Heterogeneous Computing Enabled High-Performance DNA Sequencing. , 2022, ,		0
374	DrOGA: an artificial intelligence solution for driver-status prediction of genomics mutations in precision cancer medicine. IEEE Access, 2023, , 1-1.	2.6	0
375	Structural variation among assembled genomes facilitates development of rapid and low-cost NOR-linked markers and NOR-telomere junction mapping in Arabidopsis. Plant Cell Reports, 2023, 42, 1059-1069.	2.8	0
376	Role of Next Generation Sequencing in Trait Identification, Genetic Mapping, and Crop Improvement. , 2023, , 425-440.		0
377	The next generation of hybrid microfluidic/integrated circuit chips: recent and upcoming advances in high-speed, high-throughput, and multifunctional lab-on-IC systems. Lab on A Chip, 2023, 23, 2553-2576.	3.1	2
378	Next-generation sequencing for gene panels, clinical exome, and whole-genome analysis. , 2023, , 743-766.		0
379	Genes and Genomes. , 2022, , 170-223.		0
388	Food Safety Applications of Genomic Technologies. , 2024, , 315-334.		1
403	Next-Generation Molecular Detection with a CMOS Capacitive Sensor. , 2023, , 105-132.		0
404	Algal genomics tools: technological updates and progress. , 2023, , 67-81.		0
405	Decoding Both DNA and Methylated DNA Using a MXene-Based Nanochannel Device: Supervised Machine-Learning-Assisted Exploration. , 2023, 5, 1570-1580.		2
410	RNA as modulators of infection outcome. , 2023, , 49-68.		0
437	Machine Learning for Protein Engineering. Challenges and Advances in Computational Chemistry and Physics, 2023, , 277-311.	0.6	1
438	Emerging approach of transcriptomics for crop plants improvements. , 2023, , 19-34.		0
439	Comparison of the optimal and suboptimal quantity of mitotype libraries using next-generation sequencing. International Journal of Legal Medicine, 2024, 138, 395-400.	1.2	1
450	Next-Generation Sequencing to Study the DNA Interaction. Methods in Molecular Biology, 2024, , 249-264.	0.4	0
466	The expansion of genomic precision medicine to prenatal care. , 2024, , 196-216.		0
470	Laboratory Diagnosis of Zoonotic Tuberculosis: An Update. , 2023, , 237-258.		0

#	ARTICLE	IF	CITATIONS
473	Quality Assurance When Developing Software with a Medical Purpose. , 0, , .		0
475	GMX: Instruction Set Extensions for Fast, Scalable, and Efficient Genome Sequence Alignment. , 2023, , .		0
479	Applications of some advanced sequencing, analytical, and computational approaches in medicinal plant research: a review. Molecular Biology Reports, 2024, 51, .	1.0	0
482	Next-generation sequencing technologies in Indonesia: Current status and future prospects of whole-genome sequencing applications. AIP Conference Proceedings, 2023, , .	0.3	0
484	Molecular and associated approaches for studying soil biota and their functioning. , 2024, , 161-192.		0
485	Overview of NGS platforms and technological advancements for forensic applications. , 2024, , 35-58.		0
486	Chemical synthesis as a discovery platform in immunosuppression and determination of mode of action. , 2024, 3, 162-174.		0
487	Future Perspectives of Pharmacogenomics. , 2023, , 463-471.		0
489	Analysis of microbial infections with omic techniques. , 2024, , 1965-1974.		0
490	Biological big-data sources, problems of storage, computational issues, and applications: a comprehensive review. Knowledge and Information Systems, 0, , .	2.1	0
498	Application of NGS technology for parentage testing and relatedness analysis. , 2024, , 219-241.		0
503	Next Generation Sequencing in Healthcare. , 2024, , 137-147.		0
506	The application of high-throughput sequencing technology in corneal diseases. International Ophthalmology, 2024, 44, .	0.6	0
509	Genetic Diagnosis and Counseling in Muscular Dystrophies. Current Clinical Neurology, 2023, , 221-231.	0.1	0
510	Antibiotic resistance, susceptibility testing and stewardship in Helicobacter pylori infection. , 0, , .		0
511	The application of biosensors in precision medicine. , 2024, , 133-162.		0
517	Role of Distributed Computing in Biology Research Field and Its Challenges. Series in Bioengineering, 2024, , 147-162.	0.3	0
519	Applications of High-Throughput Sequencing Chemistries in Decoding Pathogen Genomes. , 2024, , 99-138.		0