Resource Summary Report

Generated by dkNET on Sep 18, 2026

Chiron

RRID:SCR_015950
Type: Tool

Proper Citation

Chiron (RRID:SCR_015950)

Resource Information

URL: https://github.com/haotianteng/Chiron

Proper Citation: Chiron (RRID:SCR_015950)

Description: Software basecaller for Oxford Nanopore Technologies' sequencers.

Resource Type: 1d time-series analysis software, data analysis software, data processing software, software application, software resource, time-series analysis software

Defining Citation: DOI:10.1101/179531

Keywords: oxford, nanopore, deep, learning, basecaller, basecalling

Funding: ARC Future Fellowship FT110100972;
Institute for Molecular Bioscience Centre 610246;
Westpac Bicentennial Foundation

Availability: Free, Available for download

Resource Name: Chiron

Resource ID: SCR_015950

License: Mozilla Public License Version 2.0

Record Creation Time: 20220129T080328+0000

Record Last Update: 20260912T195832+0000

Ratings and Alerts

No rating or validation information has been found for Chiron.

No alerts have been found for Chiron.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 25 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Kotthoff M, et al. (2025) Induction of SOX17 with stimulation of WNT, TGF-beta, and FGF signaling drives embryonal carcinomas into the yolk-sac tumor lineage resulting in increased cisplatin resistance. International journal of cancer, 156(11), 2210.

Zhu Z, et al. (2025) SqueezeCall: nanopore basecalling using a Squeezeformer network. GigaByte (Hong Kong, China), 2025, gigabyte148.

Sharma P, et al. (2024) Oleuropein activates autophagy to circumvent anti-plasmodial defense. iScience, 27(4), 109463.

Glenn RA, et al. (2024) A PLURIPOTENT STEM CELL PLATFORM FOR IN VITRO SYSTEMS GENETICS STUDIES OF MOUSE DEVELOPMENT. bioRxiv : the preprint server for biology.

Tashkovska M, et al. (2024) Predictive models for health-related quality of life built on two telemonitoring datasets. PloS one, 19(12), e0313815.

Patil N, et al. (2023) Investigation of Cannabis sativa Phytochemicals as Anti-Alzheimer's Agents: An In Silico Study. Plants (Basel, Switzerland), 12(3).

Lara S, et al. (2022) Investigation of PAHs, nitrated PAHs and oxygenated PAHs in PM10 urban aerosols. A comprehensive data analysis. Chemosphere, 294, 133745.

Zyner KG, et al. (2022) G-quadruplex DNA structures in human stem cells and differentiation. Nature communications, 13(1), 142.

Xie S, et al. (2021) Applications and potentials of nanopore sequencing in the (epi)genome and (epi)transcriptome era. Innovation (Cambridge (Mass.)), 2(4), 100153.

Toor HG, et al. (2021) Computational drug re-purposing targeting the spike glycoprotein of SARS-CoV-2 as an effective strategy to neutralize COVID-19. European journal of pharmacology, 890, 173720.

Lackner A, et al. (2021) Cooperative genetic networks drive embryonic stem cell transition from naïve to formative pluripotency. The EMBO journal, 40(8), e105776.

Clays E, et al. (2021) Proof-of-concept trial results of the HeartMan mobile personal health system for self-management in congestive heart failure. Scientific reports, 11(1), 5663.

Espaillat CC, et al. (2021) Measuring the density structure of an accretion hot spot. Nature, 597(7874), 41.

Santos A, et al. (2020) Computational methods for 16S metabarcoding studies using Nanopore sequencing data. Computational and structural biotechnology journal, 18, 296.

Pitt ME, et al. (2020) Evaluating the genome and resistome of extensively drug-resistant Klebsiella pneumoniae using native DNA and RNA Nanopore sequencing. GigaScience, 9(2).

Stavish D, et al. (2020) Generation and trapping of a mesoderm biased state of human pluripotency. Nature communications, 11(1), 4989.

Abduljaleel Z, et al. (2019) Structural and Functional Analysis of human lung cancer risk associated hOGG1 variant Ser326Cys in DNA repair gene by molecular dynamics simulation. Non-coding RNA research, 4(3), 109.

Zhu C, et al. (2019) Rationally designed carbohydrate-occluded epitopes elicit HIV-1 Env-specific antibodies. Nature communications, 10(1), 948.

Wick RR, et al. (2019) Performance of neural network basecalling tools for Oxford Nanopore sequencing. Genome biology, 20(1), 129.

Kolari? A, et al. (2018) Insight into structural requirements for selective and/or dual CXCR3 and CXCR4 allosteric modulators. European journal of medicinal chemistry, 154, 68.