

Resource Summary Report

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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](https://doi.org/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: 20260919T195314+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.

Espaillet 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.

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

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).

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.