

Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

DeepNano

RRID:SCR_016070

Type: Tool

Proper Citation

DeepNano (RRID:SCR_016070)

Resource Information

URL: <https://bitbucket.org/vboza/deepnano>

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Description: Software for an alternative basecaller for DNA base calling in the portable Oxford Nanopore MinION sequencing device, based on deep recurrent neural networks. Used to improve base calling accuracy and reduce sequencing error rate.

Synonyms: DeepNano: Deep recurrent neural networks for base calling in MinION nanopore reads, DeepNano: alternative basecaller for MinION reads

Resource Type: sequence analysis software, software resource, data analysis software, software application, data processing software

Defining Citation: [PMID:28582401](#)

Keywords: DNA, basecaller, Oxford Nanopore MinION read, sequencing, device, deep, recurrent, neural, network, accuracy, reduce, error

Funding: VEGA 1/0684/16 (BB);
VEGA 1/0719/14 (TV);
Slovak Research and Development Agency APVV-14-0253;
NVIDIA Corporation

Availability: Free, Available for download

Resource Name: DeepNano

Resource ID: SCR_016070

Alternate IDs: OMICS_14561

Alternate URLs: <http://compbio.fmph.uniba.sk/deepnano/>,
<https://sources.debian.org/src/deepnano/>

License URLs:

<https://bitbucket.org/vboza/deepnano/src/e8a621e17b9fb73c261e6ca041976440812bc75f/LICENSE>
view-default

Record Creation Time: 20220129T080328+0000

Record Last Update: 20260820T054816+0000

Ratings and Alerts

No rating or validation information has been found for DeepNano.

No alerts have been found for DeepNano.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#).

Zhao S, et al. (2026) NanoBind: Mechanism-Driven Deep Learning of Nanobody-Antigen Molecular Recognition. Research (Washington, D.C.), 9, 1327.

Konishi H, et al. (2021) Halcyon: an accurate basecaller exploiting an encoder-decoder model with monotonic attention. Bioinformatics (Oxford, England), 37(9), 1211.

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

Patel A, et al. (2018) MinION rapid sequencing: Review of potential applications in neurosurgery. Surgical neurology international, 9, 157.

Yang C, et al. (2017) NanoSim: nanopore sequence read simulator based on statistical characterization. GigaScience, 6(4), 1.