Resource Summary Report

Generated by RRID on Aug 13, 2026

NanoporeDB

RRID:SCR_028466
Type: Tool

Proper Citation

NanoporeDB (RRID:SCR_028466)

Resource Information

URL: https://db.genomics.cn/nanopore/

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Description: Open-access structural database dedicated to the exploration, analysis, and design of protein nanopores, which serve as essential molecular gateways in biological membranes and form the basis of many advanced biosensing and sequencing technologies. This platform integrates large-scale structure-guided mining and deep learning-based modeling using AlphaFold-Multimer and AlphaFold3 to provide high-confidence multimeric nanopore structures. Each entry includes detailed information on membrane embedding, pore geometry annotation, and constriction profiling to support functional and biophysical interpretation.

Resource Type: data or information resource, database

Defining Citation: DOI:10.1101/2025.11.25.690617

Keywords: Protein nanopore, single-molecule sensing, AlphaFold, protein structure prediction, transmembrane pore geometry

Funding: National Key R&D Program of China ;
Shenzhen Science and Technology Program

Availability: Free, Freely available

Resource Name: NanoporeDB

Resource ID: SCR_028466

Record Creation Time: 20260521T063443+0000

Record Last Update: 20260811T043841+0000

Ratings and Alerts

No rating or validation information has been found for NanoporeDB.

No alerts have been found for NanoporeDB.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.