

Resource Summary Report

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[iNPS](#)

RRID:SCR_015750

Type: Tool

Proper Citation

iNPS (RRID:SCR_015750)

Resource Information

URL: <http://www.picb.ac.cn/hanlab/iNPS.html>

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Description: Software for nucleosome detection that builds on the NPS software. Its application to T-cell activation data demonstrates a greater ability to facilitate detection of nucleosome repositioning, uncovering additional biological features underlying the activation process., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Synonyms: iNPS: An improved algorithm for accurate nucleosome positioning from sequencing data

Resource Type: algorithm resource, software resource

Defining Citation: [PMID:25233085](#)

Keywords: nucleosome, detection, nps, sequencing data, nucleosome positioning

Funding: Chinese Academy of Sciences KSCX2-EW-J-15;
Chinese Academy of Sciences KSCX2-EW-R-02;
Chinese Academy of Sciences YZ201243;
Chinese Ministry of Science and Technology 2011CB504206;
Fundamental Research Funds for the Central Universities 2014JBZ005;
National Natural Science Foundation of China 31210103916;
National Natural Science Foundation of China 91019019;
Shanghai Academic Leader Project 11XD1405700;
Stem Cell Leading Project XDA01010303

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: iNPS

Resource ID: SCR_015750

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260904T000540+0000

Ratings and Alerts

No rating or validation information has been found for iNPS.

No alerts have been found for iNPS.

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 [NIF](#) .

Sciattella P, et al. (2025) Cost of illness of Heart Valve Diseases (HVDs): A real-world analysis in Italy. Global & regional health technology assessment, 12, 34.

Chen X, et al. (2024) Characterization of the SWI/SNF complex and nucleosome organization in sorghum. Frontiers in plant science, 15, 1430467.

Brenner EP, et al. (2023) Attenuated but immunostimulatory Mycobacterium tuberculosis variant bovis strain Ravenel shows variation in T cell epitopes. Scientific reports, 13(1), 12402.

Li K, et al. (2022) Inter-nucleosomal potentials from nucleosomal positioning data. The European physical journal. E, Soft matter, 45(4), 33.

Trabucco Aurilio M, et al. (2022) Applications for social security benefits related to diabetes in the working age in Italy between 2009 and 2019: a nationwide retrospective cohort study. BMJ open, 12(5), e057825.

Pancotti C, et al. (2022) Predicting protein stability changes upon single-point mutation: a thorough comparison of the available tools on a new dataset. Briefings in bioinformatics, 23(2).

Han F, et al. (2021) Current Approaches and Molecular Mechanisms for Directly Reprogramming Fibroblasts Into Neurons and Dopamine Neurons. Frontiers in aging neuroscience, 13, 738529.

Cheon Y, et al. (2021) The chromatin remodeler Ino80 mediates RNAPII pausing site determination. Genome biology, 22(1), 294.

- Chen R, et al. (2021) Homeodomain protein Six4 prevents the generation of supernumerary *Drosophila* type II neuroblasts and premature differentiation of intermediate neural progenitors. *PLoS genetics*, 17(2), e1009371.
- Cuccione E, et al. (2020) Multicolor spectral photon counting CT monitors and quantifies therapeutic cells and their encapsulating scaffold in a model of brain damage. *Nanotheranostics*, 4(3), 129.
- Li H, et al. (2020) Comparing the effects of different types of inorganic nanoparticles on 17 β -estradiol adsorption by graphene oxide. *Environmental research*, 187, 109656.
- Airoldi C, et al. (2020) Estimation of Occupational Exposure to Asbestos in Italy by the Linkage of Mesothelioma Registry (ReNaM) and National Insurance Archives. Methodology and Results. *International journal of environmental research and public health*, 17(3).
- Cadenas O, et al. (2019) Preprocessing 2D data for fast convex hull computations. *PloS one*, 14(2), e0212189.
- Giraud M, et al. (2019) Differences in work injury risk between immigrants and natives: changes since the economic recession in Italy. *BMC public health*, 19(1), 836.
- Lallo C, et al. (2018) Life expectancy inequalities in the elderly by socioeconomic status: evidence from Italy. *Population health metrics*, 16(1), 7.
- Schumacher DI, et al. (2018) The transcription factor PRO44 and the histone chaperone ASF1 regulate distinct aspects of multicellular development in the filamentous fungus *Sordaria macrospora*. *BMC genetics*, 19(1), 112.
- Chen W, et al. (2018) Inter-nucleosomal communication between histone modifications for nucleosome phasing. *PLoS computational biology*, 14(9), e1006416.
- Connor B, et al. (2018) Conversion of adult human fibroblasts into neural precursor cells using chemically modified mRNA. *Heliyon*, 4(11), e00918.
- Zhang B, et al. (2018) Targeted delivery of doxorubicin by CSA-binding nanoparticles for choriocarcinoma treatment. *Drug delivery*, 25(1), 461.
- Martelli PL, et al. (2016) Large scale analysis of protein stability in OMIM disease related human protein variants. *BMC genomics*, 17 Suppl 2(Suppl 2), 397.