

Resource Summary Report

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GATE

RRID:SCR_002756

Type: Tool

Proper Citation

GATE (RRID:SCR_002756)

Resource Information

URL: <http://yu68.github.io/GATE/>

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Description: Model-based, open source software analysis tool for chromatin states prediction based on time-course epigenetic marks data. It uses a combinatory Finite Mixture model nested with HMM to model the time course marks data in which each single hidden markov model describes the hidden states for a region set across different time points.

Synonyms: Genomic Annotation from Time-couse Epigenomic data, Genomic Annotation from Time-couse Epigenomic data (GATE)

Resource Type: data analysis resource

Defining Citation: [PMID:23033340](#)

Keywords: chromatin state prediction software, time course epigenetic data, bio.tools

Funding:

Availability: Open source

Resource Name: GATE

Resource ID: SCR_002756

Alternate IDs: OMICS_03065, biotools:gate

Alternate URLs: <https://github.com/yu68/GATE>, <https://bio.tools/gate>

Record Creation Time: 20220129T080215+0000

Record Last Update: 20250420T014121+0000

Ratings and Alerts

No rating or validation information has been found for GATE.

No alerts have been found for GATE.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 276 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Zhou L, et al. (2025) Unveiling patterns in spatial transcriptomics data: a novel approach utilizing graph attention autoencoder and multiscale deep subspace clustering network. GigaScience, 14.

Elswick A, et al. (2025) An exploration of desired abstinent and non-abstinent recovery outcomes among people who use methamphetamine. Harm reduction journal, 22(1), 7.

Karimipourfard M, et al. (2024) Impact of deep learning-based multiorgan segmentation methods on patient-specific internal dosimetry in PET/CT imaging: A comparative study. Journal of applied clinical medical physics, 25(2), e14254.

Hattab Z, et al. (2024) Heterogeneity within the Oregon Health Insurance Experiment: An application of causal forests. PloS one, 19(1), e0297205.

Oser CB, et al. (2024) Rural and urban clinician views on COVID-19's impact on substance use treatment for individuals on community supervision in Kentucky. Health & justice, 12(1), 12.

Dadgar M, et al. (2024) Evaluation of lesion contrast in the walk-through long axial FOV PET scanner simulated with XCAT anthropomorphic phantoms. EJNMMI physics, 11(1), 44.

Shoop G, et al. (2024) Combining PET and Compton imaging with edge-on CZT detectors for enhanced diagnostic capabilities. Advances in radiotherapy & nuclear medicine, 2(2).

Alibhai AY, et al. (2024) Comparing the Thin Plate Spline and Gaussian Interpolation Methods in Generating Hill of Visions for X-Linked Retinitis Pigmentosa Patients.

Translational vision science & technology, 13(12), 26.

Merlet A, et al. (2024) Validation of a discovery MI 4-ring model according to the NEMA NU 2-2018 standards: from Monte Carlo simulations to clinical-like reconstructions. EJNMMI physics, 11(1), 13.

Maguire MG, et al. (2024) Endpoints and Design for Clinical Trials in USH2A-Related Retinal Degeneration: Results and Recommendations From the RUSH2A Natural History Study. Translational vision science & technology, 13(10), 15.

Maroufpour S, et al. (2024) Validation of dosimetry programs (Olinda & IDAC) for evaluation of absorbed dose in ¹⁷⁷LuPSMA therapy of metastatic castration-resistant prostate cancer (mCRPC) using Monte Carlo simulation. EJNMMI physics, 11(1), 102.

Wen S, et al. (2024) A method for miRNA diffusion association prediction using machine learning decoding of multi-level heterogeneous graph Transformer encoded representations. Scientific reports, 14(1), 20490.

Miller C, et al. (2024) Impact of cell geometry, cellular uptake region, and tumour morphology on ²²⁵Ac and ¹⁷⁷Lu dose distributions in prostate cancer. EJNMMI physics, 11(1), 97.

McIntosh L, et al. (2024) Quantitative calibration of Tb-161 SPECT/CT in view of personalised dosimetry assessment studies. EJNMMI physics, 11(1), 18.

Michalek DA, et al. (2024) A multi-ancestry genome-wide association study in type 1 diabetes. Human molecular genetics, 33(11), 958.

De Benetti F, et al. (2024) DosePatch: physics-inspired cropping layout for patch-based Monte Carlo simulations to provide fast and accurate internal dosimetry. EJNMMI physics, 11(1), 51.

Saaidi R, et al. (2024) Crystal scatter effects in a large-area dual-panel Positron Emission Mammography system. PloS one, 19(3), e0297829.

Tang G, et al. (2024) Sampling clustering based on multi-view attribute structural relations. PloS one, 19(5), e0297989.

Gonzalez-Montoro A, et al. (2024) Design and proof of concept of a double-panel TOF-PET system. EJNMMI physics, 11(1), 73.

Sadeghi-Alavijeh O, et al. (2024) Quantifying variant contributions in cystic kidney disease using national-scale whole-genome sequencing. The Journal of clinical investigation, 134(19).