

Resource Summary Report

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IPython

RRID:SCR_001658

Type: Tool

Proper Citation

IPython (RRID:SCR_001658)

Resource Information

URL: <http://ipython.org>

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Description: A web-based interactive computational environment where you can combine code execution, text, mathematics, plots and rich media into a single document. It offers a comprehensive library on top of which more sophisticated systems can be built. The project provides an enhanced interactive environment that includes support for data visualization and facilities for distributed and parallel computation.

Abbreviations: IP(y)

Synonyms: IPython Interactive Computing

Resource Type: software resource

Keywords: publication, authoring tool, rich media, parallel computing, data visualization, python, computing, notebook

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Availability: Acknowledgement requested, BSD License

Resource Name: IPython

Resource ID: SCR_001658

Alternate IDs: nlx_153939

Record Creation Time: 20220129T080208+0000

Record Last Update: 20250410T064732+0000

Ratings and Alerts

No rating or validation information has been found for IPython.

No alerts have been found for IPython.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 321 mentions in open access literature.

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

Saleh NA, et al. (2025) Harnessing Extracellular Vesicles for Stabilized and Functional IL-10 Delivery in Macrophage Immunomodulation. bioRxiv : the preprint server for biology.

Zhang R, et al. (2024) Exploring the combinatorial explosion of amine-acid reaction space via graph editing. Communications chemistry, 7(1), 22.

Fessler J, et al. (2024) CytoCellDB: a comprehensive resource for exploring extrachromosomal DNA in cancer cell lines. NAR cancer, 6(3), zcae035.

Priest DG, et al. (2024) Atypical and non-classical CD45RBlo memory B cells are the majority of circulating SARS-CoV-2 specific B cells following mRNA vaccination or COVID-19. Nature communications, 15(1), 6811.

Chen H, et al. (2024) AVERON notebook to discover actionable cancer vulnerabilities enabled by neomorph protein-protein interactions. iScience, 27(6), 110035.

Cozzi P, et al. (2024) SMARTER-database: a tool to integrate SNP array datasets for sheep and goat breeds. GigaByte (Hong Kong, China), 2024, gigabyte139.

Kammer KM, et al. (2024) Kinetic principles of chemical cross-link formation for protein-protein interactions. Proceedings of the National Academy of Sciences of the United States of America, 121(51), e2402040121.

Darmofal M, et al. (2024) Deep-Learning Model for Tumor-Type Prediction Using Targeted Clinical Genomic Sequencing Data. Cancer discovery, 14(6), 1064.

Dorado E, et al. (2024) Extracellular vesicles as a promising source of lipid biomarkers for breast cancer detection in blood plasma. *Journal of extracellular vesicles*, 13(3), e12419.

Kuric M, et al. (2024) Modeling Myeloma Dissemination In Vitro with hMSC-interacting Subpopulations of INA-6 Cells and Their Aggregation/Detachment Dynamics. *Cancer research communications*, 4(4), 1150.

Hermansen E, et al. (2024) Uncovering 2-D toroidal representations in grid cell ensemble activity during 1-D behavior. *Nature communications*, 15(1), 5429.

Chawla R, et al. (2024) Reentrant DNA shells tune polyphosphate condensate size. *Nature communications*, 15(1), 9258.

Petersen JE, et al. (2024) Molecular determinants of neuropeptide-mediated activation mechanisms in tachykinin NK1 and NK2 receptors. *The Journal of biological chemistry*, 300(12), 107948.

Alberti G, et al. (2024) Relation between Body Composition Trajectories from Childhood to Adolescence and Nonalcoholic Fatty Liver Disease Risk. *Nutrients*, 16(6).

Donawa A, et al. (2024) Designing Survey-Based Mobile Interfaces for Rural Patients With Cancer Using Apple's ResearchKit and CareKit: Usability Study. *JMIR formative research*, 8, e57801.

Mohácsi M, et al. (2024) Evaluation and comparison of methods for neuronal parameter optimization using the Neuroptimus software framework. *PLoS computational biology*, 20(12), e1012039.

Franke K, et al. (2024) Asymmetric distribution of color-opponent response types across mouse visual cortex supports superior color vision in the sky. *eLife*, 12.

Bock C, et al. (2024) Enhancing the diagnosis of functionally relevant coronary artery disease with machine learning. *Nature communications*, 15(1), 5034.

Brooks ER, et al. (2024) A single-cell atlas of spatial and temporal gene expression in the mouse cranial neural plate. *bioRxiv : the preprint server for biology*.

Sparks D, et al. (2024) Swimming kinematics of rainbow trout behind a 3x5 cylinder array: a computationally driven experimental approach to understanding fish locomotion. *The Journal of experimental biology*, 227(23).