

Resource Summary Report

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NYU Bioinformatics Group

RRID:SCR_005697

Type: Tool

Proper Citation

NYU Bioinformatics Group (RRID:SCR_005697)

Resource Information

URL: <http://cs.nyu.edu/~bingsun/>

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Description: NYU Bioinformatics group applies algorithmic, statistical, and mathematical techniques to solve problems of interest to biology, biotechnology and biomedicine. The group focuses on bioinformatics, computational biology and systems biology with many active projects in areas ranging from single molecules to entire populations: Analysis of Single-Molecule/Single-Cell Data, SPM-based Transcriptomic Profiling, Whole-Genome Haplotype Sequencing using SMASH (Single Molecule Approaches to Haplotype Sequencing), SUTTA (Scoring and Unfolding Trimmed Tree Assembler) assembly algorithm, Analysis of Spatio-Temporal Data, Model Checking and Model Building for Systems Biology, GOALIE-based Phenomenological Models and their Verification, Causality Analysis, Causal Models and their Verification, Analysis of EHR (Electronic Health Record Data) and Disease Models (e.g., Chronic Fatigue Syndrome, Congestive Heart Failure, Deep Vein Thrombosis, etc.), Models of Cancer, Applications to Pancreatic Cancer, Polymorphisms and Biomarkers, Strategies for Group Testing, Epidemiological and Bio-Warfare Models, Planning with Large Agent Networks against Catastrophes (PLAN C), Population Genomics, and Genome Wide Association Studies (GWAS). The group has received its funding from Air Force, Army, CCPR, DARPA, NIH, NIST, NSF, NYSTAR, etc. and various other governmental and commercial entities. Currently, the group is part of an NSF funded Expedition in Computing project (CMACS: Center for Modeling and Analysis of Complex Systems at CMU) and collaborates widely, both nationally and internationally. The group is highly multi-disciplinary, attracting researchers and students from mathematics, statistics, computer science, and biology who team up with physicians, physicists, and chemists as well as professionals in their own disciplines. This group is led by Prof. Bud Mishra, a professor of computer science and mathematics at NYU's Courant Institute of Mathematical Sciences.

Abbreviations: NYU Bioinformatics Lab

Synonyms: NYU Bioinformatics Lab - Courant Institute of Mathematical Sciences

Resource Type: data or information resource, portal, laboratory portal, organization portal

Funding: U.S. Air Force ;
U.S. Army ;
CCPR ;
DARPA ;
NIH ;
NIST ;
NSF ;
NYSTAR

Resource Name: NYU Bioinformatics Group

Resource ID: SCR_005697

Alternate IDs: nlx_149146

Old URLs: <http://bioinformatics.nyu.edu/wordpress/>

Record Creation Time: 20220129T080231+0000

Record Last Update: 20260812T044110+0000

Ratings and Alerts

No rating or validation information has been found for NYU Bioinformatics Group.

No alerts have been found for NYU Bioinformatics Group.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Fa'ak F, et al. (2025) Artificial Intelligence Algorithm Predicts Response to Immune Checkpoint Inhibitors. Clinical cancer research : an official journal of the American Association for Cancer Research, 31(16), 3526.