

Resource Summary Report

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FuzDrop

RRID:SCR_023675

Type: Tool

Proper Citation

FuzDrop (RRID:SCR_023675)

Resource Information

URL: <https://fuzdrop.bio.unipd.it/predictor>

Proper Citation: FuzDrop (RRID:SCR_023675)

Description: Web tool to predict probability of proteins to undergo liquid-liquid phase separation. Used to perform sequence based identification of both droplet promoting regions and of aggregation promoting regions within droplets. Used to predict droplet promoting regions and proteins, which can spontaneously phase separate.

Resource Type: data access protocol, software resource, web service

Defining Citation: [PMID:33318217](#)

Keywords: protein, liquid-liquid phase separation, separation prediction, sequence based identification, droplet promoting regions, aggregation promoting regions,

Funding: Hungarian Academy of Sciences

Availability: Free, Freely available

Resource Name: FuzDrop

Resource ID: SCR_023675

Record Creation Time: 20230614T050220+0000

Record Last Update: 20260919T195537+0000

Ratings and Alerts

No rating or validation information has been found for FuzDrop.

No alerts have been found for FuzDrop.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Zhao H, et al. (2026) ALYREF condensation stabilizes m5C-modified PARP10 mRNA and promotes PI3K-AKT signaling in ovarian cancer. *The EMBO journal*, 45(2), 471.

Sarparanta J, et al. (2026) C-terminal extension of HSPB6 in a family with myopathy and cataract. *Human molecular genetics*, 35(1).

Dell'Oca M, et al. (2026) NEDAMSS syndrome-related truncating and missense mutations are associated with aberrant liquid-liquid phase separation of IRF2BPL. *Nature communications*, 17(1).

Yang H, et al. (2026) Interpretable and generative deep learning models explicate phase separating intrinsically disordered motifs. *Nature communications*, 17(1).

Avecilla ARC, et al. (2025) Genetically-Encoded Phase Separation Sensors Enable High-Fidelity Live-Cell Probing of Biomolecular Condensates. *ACS sensors*, 10(3), 1857.

Antonietti M, et al. (2025) An Analysis of Intrinsic Protein Disorder in Antimicrobial Peptides. *The protein journal*, 44(2), 175.

Sharma M, et al. (2025) Intrinsic disorder in CYP1B1 and its implications in primary congenital glaucoma pathogenesis. *Journal of proteins and proteomics*.

Knutson BA, et al. (2025) Evolutionary and Structural Insights into the RNA Polymerase I A34 Protein Family: A Focus on Intrinsic Disorder and Phase Separation. *Genes*, 16(1).

Li Y, et al. (2025) γ -propeller protein-associated neurodegeneration protein WDR45 regulates stress granule disassembly via phase separation with Caprin-1. *Nature communications*, 16(1), 5227.

Ecsédi P, et al. (2025) Selective engineering of condensation properties of single-stranded DNA binding (SSB) protein via its intrinsically disordered linker region. *Nucleic acids research*, 53(11).

Timothy FM, et al. (2025) Comparative Characterization of Plasmodium falciparum Small Heat Shock Proteins and Their Inhibition by Quercetin (3,3',4',5,7-Pentahydroxyflavone). *The protein journal*, 44(5), 580.

Yang W, et al. (2024) TPM4 condensates glycolytic enzymes and facilitates actin reorganization under hyperosmotic stress. *Cell discovery*, 10(1), 120.

Li X, et al. (2024) α -synuclein regulates the phase transitions and amyloid conversion of α -synuclein. *Nature communications*, 15(1), 8748.

Sun J, et al. (2024) Bioinformatic approaches of liquid-liquid phase separation in human disease. *Chinese medical journal*, 137(16), 1912.

Kyriukha Y, et al. (2024) The strand exchange domain of tumor suppressor PALB2 is intrinsically disordered and promotes oligomerization-dependent DNA compaction. *iScience*, 27(12), 111259.

Regina Chua Avecilla A, et al. (2024) Genetically-encoded phase separation sensors for intracellular probing of biomolecular condensates. *bioRxiv : the preprint server for biology*.

Bianchi G, et al. (2023) Liaisons dangereuses: Intrinsic Disorder in Cellular Proteins Recruited to Viral Infection-Related Biocondensates. *International journal of molecular sciences*, 24(3).

Kuczyńska-Wiśnik D, et al. (2023) Liquid-Liquid Phase Separation and Protective Protein Aggregates in Bacteria. *Molecules (Basel, Switzerland)*, 28(18).

Sołtys K, et al. (2023) Phase separation propensity of the intrinsically disordered AB region of human RXR α . *Cell communication and signaling : CCS*, 21(1), 92.

Mokin YI, et al. (2023) Nucleolar- and Nuclear-Stress-Induced Membrane-Less Organelles: A Proteome Analysis through the Prism of Liquid-Liquid Phase Separation. *International journal of molecular sciences*, 24(13).