

Resource Summary Report

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PONDR

RRID:SCR_023691

Type: Tool

Proper Citation

PONDR (RRID:SCR_023691)

Resource Information

URL: <http://www.pondr.com/>

Proper Citation: PONDR (RRID:SCR_023691)

Description: Web tool to predict order and disorder from amino acid sequence. Used to predict of natural disordered regions in proteins.

Synonyms: Predictor of Natural Disordered Regions

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

Defining Citation: [DOI:10.1016/S1093-3263\(00\)00138-8](https://doi.org/10.1016/S1093-3263(00)00138-8)

Keywords: amino acid sequence, predict sequence order and disorder, protein natural disordered regions prediction, protein,

Funding: NLM R01 LM06916;
NSF ;
DOE ;
MRC of Canada

Availability: Free, Freely available

Resource Name: PONDR

Resource ID: SCR_023691

Record Creation Time: 20230616T050221+0000

Record Last Update: 20260805T044519+0000

Ratings and Alerts

No rating or validation information has been found for PONDR.

No alerts have been found for PONDR.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 90 mentions in open access literature.

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

Du Y, et al. (2026) Insect I-Type Lysozymes Function as Antiviral Proteases by Forming Biomolecular Condensates. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(1), e14408.

Wang Z, et al. (2025) PRAF2 as a novel biomarker for breast cancer with machine learning and experimentation validation. *BMC cancer*, 25(1), 32.

Zhang J, et al. (2025) Liquid-liquid phase separation of ZHX2 protects DLBCL cells against ferroptosis through induction of SLC3A2. *Leukemia*, 39(10), 2442.

Chen S, et al. (2025) Nuclear Argonaute protein NRDE-3 switches small RNA partners during embryogenesis to mediate temporal-specific gene regulatory activity. *eLife*, 13.

Ma Y, et al. (2025) Semaphorin 6A phase separation sustains a histone lactylation-dependent lactate buildup in pathological angiogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, 122(16), e2423677122.

Sharma N, et al. (2025) Phosphoregulation of RAD51AP1 function in homology-directed repair. *bioRxiv : the preprint server for biology*.

Yu J, et al. (2025) Super-enhancer Activates Master Transcription Factor NR3C1 Expression and Promotes 5-FU Resistance in Gastric Cancer. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(7), e2409050.

Liu J, et al. (2025) The splicing auxiliary factor OsU2AF35a enhances thermotolerance via protein separation and promoting proper splicing of OSHSA32 pre-mRNA in rice. *Plant biotechnology journal*, 23(4), 1308.

Zeng M, et al. (2025) Viral proteins suppress rice defenses by boosting OsTSN1 RNA decay via phase separation and multimerization. *Nature communications*, 16(1), 7481.

Rahimi K, et al. (2025) Full-Length Context Disrupts Folding of IgG-Binding Domains of Protein A. *bioRxiv : the preprint server for biology*.

Zhang Y, et al. (2025) RUNX2 Phase Separation Mediates Long-Range Regulation Between Osteoporosis-Susceptibility Variant and XCR1 to Promote Osteoblast

Differentiation. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(6), e2413561.

Darieva Z, et al. (2025) Ubiquitous MEIS transcription factors actuate lineage-specific transcription to establish cell fate. The EMBO journal, 44(8), 2232.

Tarallo M, et al. (2025) Foliar Pine Pathogens From Different Kingdoms Share Defence-Eliciting Effector Proteins. Molecular plant pathology, 26(3), e70065.

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).

Kang Z, et al. (2025) NKAPL facilitates transcription pause-release and bridges elongation to initiation during meiosis exit. Nature communications, 16(1), 791.

Guo Y, et al. (2025) Targeting RBM10-Repressed RORB Activity in Liquid Condensates Inhibits Lysosomal Biogenesis and Neuroblastoma Progression via Affecting NF- κ B Signaling. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(44), e06131.

Wang R, et al. (2025) A DNA-containing phase-separated compartment links the nuclear envelope to chromosome axes to promote homolog pairing in *C. elegans*. Science advances, 11(41), eadw5764.

Escamilla-Vega E, et al. (2025) Evolution of the essential gene MN1 during the macroevolutionary transition toward patterning the vertebrate hindbrain. Proceedings of the National Academy of Sciences of the United States of America, 122(22), e2416061122.

Humberg C, et al. (2025) A cysteine-less and ultra-fast split intein rationally engineered from being aggregation-prone to highly efficient in protein trans-splicing. Nature communications, 16(1), 2723.

Wang Q, et al. (2025) Arecoline upregulates CD155 expression to facilitate immune evasion in oral squamous cell carcinoma. Journal for immunotherapy of cancer, 13(12).