

Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 28, 2026

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: software resource, data access protocol, 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: 20260729T044557+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 [PRECISE-TBI](#) .

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*.

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.

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.

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

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.

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).

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.

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

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.

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.

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).