

# Resource Summary Report

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## Prediction of Amyloid Structure Aggregation

RRID:SCR\_001768

Type: Tool

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### Proper Citation

Prediction of Amyloid Structure Aggregation (RRID:SCR\_001768)

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### Resource Information

**URL:** <http://protein.bio.unipd.it/pasta2/>

**Proper Citation:** Prediction of Amyloid Structure Aggregation (RRID:SCR\_001768)

**Description:** Online interface that utilizes an algorithm to predict the most aggregation-prone portions and the corresponding beta-strand inter-molecular pairing for a given input sequence. Users can paste the sequence into the interface and output the appropriate sequence.

**Abbreviations:** PASTA

**Synonyms:** PASTA 2.0, Prediction of amyloid structure aggregation

**Resource Type:** web application, software resource, data analysis service, production service resource, service resource, analysis service resource

**Defining Citation:** [PMID:24848016](#)

**Keywords:** protein aggregation, sequence, dna, rna, amyloid structure, protein analysis, bio.tools

**Funding:** Padova University Progetto di Ateneo CPDA121890;  
Italian Ministry for University and Research FIRB Futuro in Ricerca RBFR08ZSXY

**Availability:** Free, Freely available

**Resource Name:** Prediction of Amyloid Structure Aggregation

**Resource ID:** SCR\_001768

**Alternate IDs:** biotools:pasta, OMICS\_03861

**Alternate URLs:** <https://bio.tools/pasta>

**Record Creation Time:** 20220129T080209+0000

**Record Last Update:** 20260806T054327+0000

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## Ratings and Alerts

No rating or validation information has been found for Prediction of Amyloid Structure Aggregation.

No alerts have been found for Prediction of Amyloid Structure Aggregation.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 177 mentions in open access literature.

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

Sarrazin-Gendron R, et al. (2025) Improving microbial phylogeny with citizen science within a mass-market video game. *Nature biotechnology*, 43(1), 76.

Errico S, et al. (2025) Structural commonalities determined by physicochemical principles in the complex polymorphism of the amyloid state of proteins. *The Biochemical journal*, 482(2), 87.

Schalch-Schuler M, et al. (2025) The planktonic freshwater ciliate *Balanion planctonicum* (Ciliophora, Prostomatea): A cryptic species complex or a "complex species"? *The Journal of eukaryotic microbiology*, 72(1), e13084.

Elasbali AM, et al. (2025) A structural genomics approach to investigate Dystrophin mutations and their impact on the molecular pathways of Duchenne muscular dystrophy. *Frontiers in genetics*, 16, 1517707.

Gupta A, et al. (2024) Accurate, scalable, and fully automated inference of species trees from raw genome assemblies using ROADIES. *bioRxiv : the preprint server for biology*.

Zhang T, et al. (2024) Phylogenomic profiles of whole-genome duplications in Poaceae and landscape of differential duplicate retention and losses among major Poaceae lineages. *Nature communications*, 15(1), 3305.

Baronait?? I, et al. (2024) Formation of Calprotectin Inhibits Amyloid Aggregation of S100A8 and S100A9 Proteins. *ACS chemical neuroscience*, 15(9), 1915.

Xu YH, et al. (2024) Evolutionary Modes of wtf Meiotic Driver Genes in *Schizosaccharomyces pombe*. *Genome biology and evolution*, 16(10).

Villanueva A, et al. (2024) Identification of the Bioavailable Peptidome of Chia Protein Hydrolysate and the In Silico Evaluation of Its Antioxidant and ACE Inhibitory Potential. *Journal of agricultural and food chemistry*, 72(6), 3189.

Aldrovandi S, et al. (2024) Expression of Random Sequences and de novo Evolved Genes From the Mouse in Human Cells Reveals Functional Diversity and Specificity. *Genome biology and evolution*, 16(12).

Rao NR, et al. (2024) Derailed protein turnover in the aging mammalian brain. *Molecular systems biology*, 20(2), 120.

Nguyen TTT, et al. (2024) Effects of carbon source addition in rearing water on sediment characteristics, growth and health of cultured marron (*Cherax cainii*). *Scientific reports*, 14(1), 1349.

Sharma K, et al. (2024) Cryo-EM observation of the amyloid key structure of polymorphic TDP-43 amyloid fibrils. *Nature communications*, 15(1), 486.

Malis V, et al. (2024) Aliphatic and Olefinic Fat Suppression in the Orbit Using Polarity-altered Spectral and Spatial Selective Acquisition (PASTA) with Opposed Phase. *Magnetic resonance in medical sciences : MRMS : an official journal of Japan Society of Magnetic Resonance in Medicine*, 23(2), 193.

Harkess A, et al. (2024) The unusual predominance of maintenance DNA methylation in *Spirodela polyrhiza*. *G3 (Bethesda, Md.)*, 14(4).

Boukheloua R, et al. (2024) Global freshwater distribution of *Telonemia* protists. *The ISME journal*, 18(1).

Chuang HY, et al. (2024) Engineered droplet-forming peptide as photocontrollable phase modulator for fused in sarcoma protein. *Nature communications*, 15(1), 5686.

Vakirlis N, et al. (2024) Large-scale investigation of species-specific orphan genes in the human gut microbiome elucidates their evolutionary origins. *Genome research*, 34(6), 888.

Wong HL, et al. (2024) Ubiquitous genome streamlined Acidobacteriota in freshwater environments. *ISME communications*, 4(1), ycae124.

Lauterbach M, et al. (2024) Leaf transcriptomes from C3, C3-C4 intermediate, and C4Neurachne species give insights into C4 photosynthesis evolution. *Plant physiology*, 197(1).