# **Resource Summary Report**

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# <u>ASTRA</u>

RRID:SCR\_016255 Type: Tool

**Proper Citation** 

ASTRA (RRID:SCR\_016255)

#### **Resource Information**

URL: https://www.wyatt.com/products/software/astra.html

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**Description:** Software for the characterization of macromolecules and nanoparticles via multi-angle and dynamic light scattering. It simplifies MALS and DLS analysis for assessment of molar mass, size, conformation, conjugation, and other essential physical parameters.

Synonyms: ASTRA6, Wyatt Technologies ASTRA, ASTRA Software

**Resource Type:** software application, software toolkit, data analysis software, data processing software, software resource

**Keywords:** macromolecule, nanoparticle, light, scattering, mals, dls, hplc, sequence, processing

Funding:

Availability: Commercially available, Request quote

**Resource Name: ASTRA** 

Resource ID: SCR\_016255

**Record Creation Time:** 20220129T080329+0000

Record Last Update: 20250517T060244+0000

**Ratings and Alerts** 

No rating or validation information has been found for ASTRA.

No alerts have been found for ASTRA.

### Data and Source Information

Source: SciCrunch Registry

## **Usage and Citation Metrics**

We found 79 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Song X, et al. (2024) The structure of TRAF7 coiled-coil trimer provides insight into its function in zebrafish embryonic development. Journal of molecular cell biology, 16(1).

Zhang L, et al. (2024) Structure basis for recognition of plant Rpn10 by phytoplasma SAP05 in ubiquitin-independent protein degradation. iScience, 27(2), 108892.

Rezazadeh H, et al. (2024) Optimization of the fermentation media, mathematical modeling, and enhancement of paclitaxel production by Alternaria alternata after elicitation with pectin. Scientific reports, 14(1), 12980.

Wang WW, et al. (2024) The structure of the archaeal nuclease RecJ2 implicates its catalytic mechanism and inability to interact with GINS. The Journal of biological chemistry, 300(6), 107379.

Barra ALC, et al. (2024) Structure and dynamics of the staphylococcal pyridoxal 5-phosphate synthase complex reveal transient interactions at the enzyme interface. The Journal of biological chemistry, 300(6), 107404.

Agarwal A, et al. (2024) Mycobacterium smegmatis putative Holliday junction resolvases RuvC and RuvX play complementary roles in the processing of branched DNA structures. The Journal of biological chemistry, 300(10), 107732.

Quinodoz M, et al. (2024) De novo variants in LRRC8C resulting in constitutive channel activation cause a human multisystem disorder. The EMBO journal.

Sirirungruang S, et al. (2024) Structural and biochemical basis for regiospecificity of the flavonoid glycosyltransferase UGT95A1. The Journal of biological chemistry, 300(9), 107602.

Nishio S, et al. (2024) ZP2 cleavage blocks polyspermy by modulating the architecture of the egg coat. Cell, 187(6), 1440.

Britton R, et al. (2023) Noncanonical Activity of Tissue Inhibitor of Metalloproteinases 2 (TIMP2) Improves Cognition and Synapse Density in Aging. eNeuro, 10(6).

Kim DY, et al. (2023) Sequence tolerance of immunoglobulin variable domain framework regions to noncanonical intradomain disulfide linkages. The Journal of biological chemistry, 299(11), 105278.

Sharma M, et al. (2023) Defining the molecular architecture, metal dependence, and distribution of metal-dependent class II sulfofructose-1-phosphate aldolases. The Journal of biological chemistry, 299(11), 105338.

Silva RP, et al. (2023) Identification of a conserved S2 epitope present on spike proteins from all highly pathogenic coronaviruses. eLife, 12.

Huang C, et al. (2023) Tetramerization of upstream stimulating factor USF2 requires the elongated bent leucine zipper of the bHLH-LZ domain. The Journal of biological chemistry, 299(10), 105240.

Tippett DN, et al. (2023) Structural and functional properties of the transporter SLC26A6 reveal mechanism of coupled anion exchange. eLife, 12.

Sengupta N, et al. (2023) Cryo-EM reveals the membrane-binding phenomenon of EspB, a virulence factor of the mycobacterial type VII secretion system. The Journal of biological chemistry, 299(4), 104589.

Carminati M, et al. (2023) A direct interaction between CPF and RNA Pol II links RNA 3' end processing to transcription. Molecular cell, 83(24), 4461.

Ramanadane K, et al. (2023) Structural and functional properties of a plant NRAMP-related aluminum transporter. eLife, 12.

Guo K, et al. (2023) KANK1 shapes focal adhesions by orchestrating protein binding, mechanical force sensing, and phase separation. Cell reports, 42(11), 113321.

Ramanadane K, et al. (2022) Structural and functional properties of a magnesium transporter of the SLC11/NRAMP family. eLife, 11.