

Resource Summary Report

Generated by PRECISE-TBI on Sep 15, 2026

Autoaligner

RRID:SCR_007355

Type: Tool

Proper Citation

Autoaligner (RRID:SCR_007355)

Resource Information

URL: <http://www.bitplane.com/go/products/autoaligner>

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Description: Microtomy is a standard technique used for 2D microscopy, but it can also provide the foundation for 3D analysis using AutoAligner. AutoAligner reads a stack of serial sections and automatically aligns the single images, building up a 3D space that can be explored using Imaris. Each image is aligned in translation and rotation relative to its precursor image in the sequence. In addition to a fully automated mode, AutoAligner also provides manual control for neighboring images that are too different from each other for automatic alignment. The visual alignment tool uses fast display techniques for aligning images in real time.

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

Resource Name: Autoaligner

Resource ID: SCR_007355

Alternate IDs: nif-0000-00266

Record Creation Time: 20220129T080241+0000

Record Last Update: 20260912T195653+0000

Ratings and Alerts

No rating or validation information has been found for Autoaligner.

No alerts have been found for Autoaligner.

Data and Source Information

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Wilton DK, et al. (2023) Microglia and complement mediate early corticostriatal synapse loss and cognitive dysfunction in Huntington's disease. *Nature medicine*, 29(11), 2866.

Norland S, et al. (2022) Developmental stages of the ballan wrasse from first feeding through metamorphosis: Cranial ossification and the digestive system. *Journal of anatomy*, 241(2), 337.

Aizawa S, et al. (2019) Abnormal Pyramidal Decussation and Bilateral Projection of the Corticospinal Tract Axons in Mice Lacking the Heparan Sulfate Endosulfatases, Sulf1 and Sulf2. *Frontiers in molecular neuroscience*, 12, 333.

Yetman MJ, et al. (2019) Intersectional monosynaptic tracing for dissecting subtype-specific organization of GABAergic interneuron inputs. *Nature neuroscience*, 22(3), 492.

Nambiar A, et al. (2019) 3D Reconstruction of the Intracortical Volume Around a Hybrid Microelectrode Array. *Frontiers in neuroscience*, 13, 393.

Göpel T, et al. (2018) Morphological description, character conceptualization and the reconstruction of ancestral states exemplified by the evolution of arthropod hearts. *PloS one*, 13(9), e0201702.

Scholz S, et al. (2018) Constant morphological patterns in the hemolymph vascular system of crayfish (Crustacea, Decapoda). *Arthropod structure & development*, 47(3), 248.

Basler L, et al. (2017) Sampling the Mouse Hippocampal Dentate Gyrus. *Frontiers in neuroanatomy*, 11, 123.

Macchiarulo S, et al. (2017) Tbx1 and Jag1 act in concert to modulate the fate of neurosensory cells of the mouse otic vesicle. *Biology open*, 6(10), 1472.

McKinney MC, et al. (2016) Angiopoietin 2 signaling plays a critical role in neural crest cell migration. *BMC biology*, 14(1), 111.

Stegner ME, et al. (2015) The brain in three crustaceans from cavernous darkness. *BMC neuroscience*, 16, 19.

Wang D, et al. (2015) Whole-brain mapping of the direct inputs and axonal projections of POMC and AgRP neurons. *Frontiers in neuroanatomy*, 9, 40.

Fujisawa S, et al. (2015) Understanding the three-dimensional world from two-dimensional immunofluorescent adjacent sections. *Journal of pathology informatics*, 6, 27.

Haralalka S, et al. (2014) Live imaging provides new insights on dynamic F-actin filopodia and differential endocytosis during myoblast fusion in *Drosophila*. *PloS one*, 9(12), e114126.

Ja?oszy?ski P, et al. (2012) The evolution of "deformed" brains in ant-like stone beetles (Scydmaeninae, Staphylinidae). *Arthropod structure & development*, 41(1), 17.

Koeth M, et al. (2012) The thoracic skeleto-muscular system of *Mengenilla* (Strepsiptera: Mengenillidae) and its phylogenetic implications. *Arthropod structure & development*, 41(4), 323.

Azhar M, et al. (2011) Transforming growth factor Beta2 is required for valve remodeling during heart development. *Developmental dynamics : an official publication of the American Association of Anatomists*, 240(9), 2127.

Szucsich NU, et al. (2011) The mouthparts of *Scutigera* *immaculata*: Correspondences and variation among serially homologous head appendages. *Arthropod structure & development*, 40(2), 105.

Kamisaka Y, et al. (2011) Reconstructed 3D models of digestive organs of developing Atlantic cod (*Gadus morhua*) larvae. *Marine biology*, 158(1), 233.

Stegner ME, et al. (2011) Morphology of the brain in *Hutchinsoniella macracantha* (Cephalocarida, Crustacea). *Arthropod structure & development*, 40(3), 221.