Resource Summary Report

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AngioTool

RRID:SCR_016393
Type: Tool

Proper Citation

AngioTool (RRID:SCR_016393)

Resource Information

URL: https://ccrod.cancer.gov/confluence/display/ROB2/Home

Proper Citation: AngioTool (RRID:SCR_016393)

Description: Software that performs quantitative analysis of angiogenesis. It specializes in quantitative assessment of various vessel morphometric and spatial parameters, including vessel length and density, branching index, lacunarity, etc.

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

Defining Citation: PMID:22110636

Keywords: vessel, angio, angiogenesis, characteristic, morphology

Funding: Biotechnology and Biological Sciences Research Council BB/C520712; MRC G0700740

Availability: Open source, Free, Available for download

Resource Name: AngioTool

Resource ID: SCR_016393

Alternate URLs: https://www.researchgate.net/publication/51824175_A_Computational_Tool_for_Quantitative_Analysis_

License: GNU General Public License

Record Creation Time: 20220129T080330+0000

Record Last Update: 20250509T060154+0000

Ratings and Alerts

No rating or validation information has been found for AngioTool.

No alerts have been found for AngioTool.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 37 mentions in open access literature.

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

Huang C, et al. (2025) Effect and factors associated with reactivation after intravitreal conbercept or aflibercept in retinopathy of prematurity. European journal of medical research, 30(1), 55.

Saeed S, et al. (2025) Methanolic Leaves Extract of Ziziphus spina-christi Inhibits Cell Proliferation and Migration of HER2-Positive Breast Cancer via p38 MAPK Signaling Pathway. International journal of molecular sciences, 26(2).

Schrenk S, et al. (2024) Protocol for three-dimensional whole-mount imaging of the vascular network in the intestinal muscle. STAR protocols, 5(3), 103170.

Wang J, et al. (2024) The Interplay Between HIF-1? and EZH2 in Lung Cancer and Dual-Targeted Drug Therapy. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(7), e2303904.

Faghihi S, et al. (2024) Baseline optical coherence tomography angiography biomarkers predict visual outcomes in treatment-naïve neovascular age-related macular degeneration patients. Scientific reports, 14(1), 24528.

Wang Y, et al. (2024) A high-fat plus high-sucrose diet induces age-related macular degeneration in an experimental rabbit model. Disease models & mechanisms, 17(11).

Wang W, et al. (2024) Identification of hypoxic macrophages in glioblastoma with therapeutic potential for vasculature normalization. Cancer cell, 42(5), 815.

Riazi-Esfahani H, et al. (2023) Pachychoroid neovasculopathy versus macular

neovascularization in age-related macular degeneration with and without shallow irregular pigment epithelial detachment. Scientific reports, 13(1), 19513.

Luo J, et al. (2023) Protocol for generating mutant zebrafish using CRISPR-Cas9 followed by quantitative evaluation of vascular formation. STAR protocols, 4(4), 102753.

Kalaw FGP, et al. (2023) Retinal tissue and microvasculature loss in COVID-19 infection. Scientific reports, 13(1), 5100.

Guo Y, et al. (2023) Protocol for indirect and direct co-culture between human cancer cells and endothelial cells. STAR protocols, 4(2), 102177.

Zheng X, et al. (2023) Preclinical long-term safety of intraspinal transplantation of human dorsal spinal GABA neural progenitor cells. iScience, 26(11), 108306.

Li J, et al. (2023) Protective effects and mechanisms of Yi Qi Huo Xue Fang in cerebral ischemic stroke based on network pharmacology and experimental verification. Journal of ethnopharmacology, 314, 116611.

Betageri KR, et al. (2023) The matricellular protein CCN3 supports lung endothelial homeostasis and function. American journal of physiology. Lung cellular and molecular physiology, 324(2), L154.

Jullienne A, et al. (2023) Cortical cerebrovascular and metabolic perturbations in the 5xFAD mouse model of Alzheimer's disease. Frontiers in aging neuroscience, 15, 1220036.

Xu H, et al. (2022) miR-429 negatively regulates the progression of hypoxia-induced retinal neovascularization by the HPSE-VEGF pathway. Experimental eye research, 223, 109196.

Wang B, et al. (2022) Sphingosine 1-phosphate receptor 1 governs endothelial barrier function and angiogenesis by upregulating endoglin signaling. Annals of translational medicine, 10(3), 136.

Zhou H, et al. (2022) Microvasculopathy in spinal muscular atrophy is driven by a reversible autonomous endothelial cell defect. The Journal of clinical investigation, 132(21).

Xiao G, et al. (2022) IL-17/CXCL5 signaling within the oligovascular niche mediates human and mouse white matter injury. Cell reports, 41(12), 111848.

Zheng X, et al. (2022) The Two-Pore Domain Potassium Channel TREK-1 Promotes Blood-Brain Barrier Breakdown and Exacerbates Neuronal Death After Focal Cerebral Ischemia in Mice. Molecular neurobiology, 59(4), 2305.