

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 application, software resource, data processing software, data analysis 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_Analy

License: GNU General Public License

Record Creation Time: 20220129T080330+0000

Record Last Update: 20260820T054825+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 60 mentions in open access literature.

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

Li S, et al. (2026) Maternal hyperhomocysteinemia induces fetal growth restriction by suppressing angiogenesis at the maternal-fetal interface. *Cell & bioscience*, 16(1), 17.

Siqueira M, et al. (2026) Ethanol Alters DNMT1/3a/3b Expression Profile, Promotes Persistent DNA Hypomethylation in Human Brain Endothelial Cells and Impairs Late Cortical Angiogenesis. *Journal of neurochemistry*, 170(2), e70375.

Liu W, et al. (2026) CD146+ pericyte-like lung cancer brain metastatic stem cells promote tumor angiogenesis through dual regulatory effects on the VEGF/VEGFR axis. *Theranostics*, 16(4), 1905.

Cordiale A, et al. (2026) An Innovative "Tooth-On-Chip" Microfluidic Device Emulating the Structure and Physiology of the Dental Pulp Tissue. *Advanced healthcare materials*, 15(1), e02080.

Herrle N, et al. (2026) The transaminase- γ -amidase pathway senses oxidative stress to control glutamine metabolism and γ -ketoglutarate levels in endothelial cells. *The EMBO journal*, 45(3), 820.

Ye WH, et al. (2026) A cell-free lipid sterosomal therapeutic enables bone regeneration via USP18-mediated noncanonical S1P signaling. *Bioactive materials*, 65, 333.

Bosmans C, et al. (2026) A Quantitative Printability Framework for Programmable Assembly of Pre-Vascular Patterns via Laser-Induced Forward Transfer. *Advanced healthcare materials*, 15(8), e03665.

El-Merahbi R, et al. (2026) Endothelial ADGRF5(GPR116) governs vascular adaptation required for sustained thermogenic remodeling of brown adipose tissue. *Molecular metabolism*, 107, 102346.

Vaishnav J, et al. (2026) Amiodarone disrupts thyroid hormone signaling networks governing early heart development in the chick embryo. *General and comparative endocrinology*, 376, 114871.

Vilarrubi A, et al. (2026) SMARCB1 Deficiency in Tumors Confers a Vulnerability to H3K27 Demethylase Inhibitors via Autophagy Disruption. *Cancer research*.

Jullienne A, et al. (2026) Regional brain and cerebrovasculature morphology during normative aging in male and female C57BL/6N mice. *Frontiers in aging neuroscience*, 18, 1852741.

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.

Schreiberová Z, et al. (2025) Long-term retinal oximetry and OCT angiography in patients recovered from COVID-19. *Scientific reports*, 15(1), 37851.

Yilmaz C, et al. (2025) Modulation of microglial phagocytosis via the GAS6-MERTK pathway regulates pathological angiogenesis in the mouse oxygen-induced retinopathy model. *Cell death & disease*, 16(1), 428.

Campo F, et al. (2025) Bioengineering of a human iPSC-derived vascularized endocrine pancreas for type 1 diabetes. *Cell reports. Medicine*, 6(2), 101938.

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).

Kinuthia UM, et al. (2025) Immunomodulation of inflammatory responses preserves retinal integrity in murine models of pericyte-depletion retinopathy. *JCI insight*, 10(15).

Murphy AR, et al. (2025) Fabricating Microfluidic Co-Cultures of Immortalized Cell Lines Uncovers Robust Design Principles for the Simultaneous Formation of Patterned, Vascularized, and Stem Cell-Derived Adipose Tissue. *Small (Weinheim an der Bergstrasse, Germany)*, 21(32), e2501834.

Fabitha K, et al. (2025) Improved anti-breast cancer activity through structural modification of fused pyran derivatives and mechanistic investigations. *RSC medicinal chemistry*, 16(8), 3671.

Chen D, et al. (2025) Cell cycle duration determines oncogenic transformation capacity. *Nature*, 641(8065), 1309.