

Resource Summary Report

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Tscratch

RRID:SCR_014282

Type: Tool

Proper Citation

Tscratch (RRID:SCR_014282)

Resource Information

URL: http://www.cse-lab.ethz.ch/index.php?&option=com_content&view=article&id=363

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Description: Software tool for automated analysis of monolayer wound healing assays. Available as a stand alone application for Macintosh and Windows and as a source code. Offers a graphical user interface for inspection of analysis results and manual modification of analysis parameters.

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

Defining Citation: [PMID:19450233](#)

Keywords: analyze, wound, scratch, healing, assay, cell, migration, monolayer

Funding: NCI CA69184;
Swiss National Fund ;
Austrian Science Foundation ;
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Commission of the European Communities ;
NCCR CO-ME

Availability: Free, Available for download, Freely available, Acknowledgement required

Resource Name: Tscratch

Resource ID: SCR_014282

Alternate URLs: <https://github.com/cselab/TScratch>

Record Creation Time: 20220129T080319+0000

Record Last Update: 20250424T065311+0000

Ratings and Alerts

No rating or validation information has been found for Tscratch .

No alerts have been found for Tscratch .

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 41 mentions in open access literature.

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

Lin S, et al. (2025) Drug Screening of Flavonoids as Potential VEGF Inhibitors Through Computational Docking and Cell Models. *Molecules (Basel, Switzerland)*, 30(2).

Lim WJ, et al. (2024) A 1, 4-benzoquinone derivative isolated from *Ardisia crispa* (Thunb.) A. DC. root suppresses angiogenesis via its angiogenic signaling cascades. *Saudi pharmaceutical journal : SPJ : the official publication of the Saudi Pharmaceutical Society*, 32(1), 101891.

Thamrongwarangoon U, et al. (2023) Lactic acidosis induces metabolic and phenotypic reprogramming in cholangiocarcinoma cells via the upregulation of thrombospondin-1. *Cancer science*, 114(4), 1541.

Schwarz S, et al. (2023) Senescent Tumor Cells Are Frequently Present at the Invasion Front: Implications for Improving Disease Control in Patients with Locally Advanced Prostate Cancer. *Pathobiology : journal of immunopathology, molecular and cellular biology*, 90(5), 312.

Safavi F, et al. (2023) In vitro wound healing potential of cyclohexane extract of *Onosma dichroantha* Boiss. based on bioassay-guided fractionation. *Scientific reports*, 13(1), 5018.

Bohosova J, et al. (2022) LncRNA PVT1 is increased in renal cell carcinoma and affects viability and migration in vitro. *Journal of clinical laboratory analysis*, 36(6), e24442.

Grabowska M, et al. (2022) miR-218 affects the ECM composition and cell biomechanical

properties of glioblastoma cells. *Journal of cellular and molecular medicine*, 26(14), 3913.

Sunny DE, et al. (2022) Fetal Zone Steroids Show Discrete Effects on Hyperoxia-Induced Attenuation of Migration in Cultured Oligodendrocyte Progenitor Cells. *Oxidative medicine and cellular longevity*, 2022, 2606880.

Prentzell MT, et al. (2021) G3BPs tether the TSC complex to lysosomes and suppress mTORC1 signaling. *Cell*, 184(3), 655.

Li L, et al. (2021) Rubioncolin C, a natural naphthohydroquinone dimer isolated from *Rubia yunnanensis*, inhibits the proliferation and metastasis by inducing ROS-mediated apoptotic and autophagic cell death in triple-negative breast cancer cells. *Journal of ethnopharmacology*, 277, 114184.

Hu WH, et al. (2020) Kaempferol, a Major Flavonoid in *Ginkgo Folium*, Potentiates Angiogenic Functions in Cultured Endothelial Cells by Binding to Vascular Endothelial Growth Factor. *Frontiers in pharmacology*, 11, 526.

Yue GG, et al. (2020) A Natural Flavone Tricin from Grains Can Alleviate Tumor Growth and Lung Metastasis in Colorectal Tumor Mice. *Molecules (Basel, Switzerland)*, 25(16).

Hu WH, et al. (2020) Piceatannol, a Natural Analog of Resveratrol, Exerts Anti-angiogenic Efficiencies by Blockage of Vascular Endothelial Growth Factor Binding to Its Receptor. *Molecules (Basel, Switzerland)*, 25(17).

Scrima M, et al. (2020) Evaluation of Wound Healing Activity of *Salvia haenkei* Hydroalcoholic Aerial Part Extract on in vitro and in vivo Experimental Models. *Clinical, cosmetic and investigational dermatology*, 13, 627.

Fernández-Medina T, et al. (2019) Systematic Comparison of the Effect of Four Clinical-Grade Platelet Rich Hemoderivatives on Osteoblast Behaviour. *International journal of molecular sciences*, 20(24).

El-Hamoly T, et al. (2019) Potential effects of ursodeoxycholic acid on accelerating cutaneous wound healing. *PLoS one*, 14(12), e0226748.

Badawi M, et al. (2018) CD44 positive and sorafenib insensitive hepatocellular carcinomas respond to the ATP-competitive mTOR inhibitor INK128. *Oncotarget*, 9(40), 26032.

Steinle H, et al. (2018) Improving the Angiogenic Potential of EPCs via Engineering with Synthetic Modified mRNAs. *Molecular therapy. Nucleic acids*, 13, 387.

Manne RK, et al. (2017) A MicroRNA/Ubiquitin Ligase Feedback Loop Regulates Slug-Mediated Invasion in Breast Cancer. *Neoplasia (New York, N.Y.)*, 19(6), 483.

Liew SK, et al. (2017) Anti-proliferative, apoptotic induction, and anti-migration effects of hemi-synthetic 1'S-1'-acetoxychavicol acetate analogs on MDA-MB-231 breast cancer cells. *Drug design, development and therapy*, 11, 2763.