

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., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

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

Defining Citation: [PMID:19450233](#)

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

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

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: Tscratch

Resource ID: SCR_014282

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

Record Creation Time: 20220129T080319+0000

Record Last Update: 20260731T042917+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 45 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Sasiadek L, et al. (2025) Human tissue kallikrein 14 induces the expression of IL-6, IL-8, and CXCL1 in skin fibroblasts through protease-activated receptor 1 signaling. The FEBS journal.

Sharma A, et al. (2025) PIEZO1 activity promotes stemness in mesenchymal stem cells under shear stress and enhances protection of leukemia cells. Scientific reports, 15(1), 24244.

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

Stringari A, et al. (2025) Revitalising Brewers' Spent Grains and Enriching With Biogenic Compounds Through the Fermentation of Fructophilic Lactic Acid Bacteria and Yeasts. Microbial biotechnology, 18(6), e70171.

Bagchi A, et al. (2025) PDE4 inhibitor rolipram represses hedgehog signaling via ubiquitin-mediated proteolysis of GLI transcription factors to regress breast cancer. The Journal of biological chemistry, 301(3), 108239.

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.

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.

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.

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.