

Resource Summary Report

Generated by T1D on Aug 1, 2026

Tronolab

RRID:SCR_008580

Type: Tool

Proper Citation

Tronolab (RRID:SCR_008580)

Resource Information

URL: <http://tronolab.epfl.ch>

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Description: Retroelements constitute important evolutionary forces for the genome of higher organisms, yet their uncontrolled spread, whether from endogenous loci or within the context of viral infections, can cause diseases such as cancer, hepatitis and AIDS. Correspondingly, a variety of host-encoded activities limit this process, belonging to a line of defense commonly called intrinsic or innate immunity, which notably contributes to taming endogenous retroelements and to restricting the cross-species transmission of retroviruses. Our work aims at characterizing the relationship between retroelements and their hosts, which has recently led us to become more generally interested in epigenetic mechanisms regulating the expression of mammalian genomes.

Synonyms: Tronolab

Resource Type: portal, organization portal, data or information resource

Resource Name: Tronolab

Resource ID: SCR_008580

Alternate IDs: nif-0000-31881

Record Creation Time: 20220129T080248+0000

Record Last Update: 20260801T042650+0000

Ratings and Alerts

No rating or validation information has been found for Tronolab.

No alerts have been found for Tronolab.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 68 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Forey R, et al. (2025) Cancer cells subvert the primate-specific KRAB zinc finger protein ZNF93 to control APOBEC3B. *Proceedings of the National Academy of Sciences of the United States of America*, 122(34), e2505021122.

Pulver C, et al. (2025) Evolutionarily recent transcription factors partake in human cell cycle regulation. *Cell genomics*, 5(8), 100923.

Martins F, et al. (2024) A Cluster of Evolutionarily Recent KRAB Zinc Finger Proteins Protects Cancer Cells from Replicative Stress-Induced Inflammation. *Cancer research*, 84(6), 808.

Begniss M, et al. (2024) Clusters of lineage-specific genes are anchored by ZNF274 in repressive perinucleolar compartments. *Science advances*, 10(37), eado1662.

de Tribolet-Hardy J, et al. (2023) Genetic features and genomic targets of human KRAB-zinc finger proteins. *Genome research*, 33(8), 1409.

Kudo T, et al. (2022) A multiplexed epitope barcoding strategy that enables dynamic cellular phenotypic screens. *Cell systems*, 13(5), 376.

Paris A, et al. (2022) The AhR-SRC axis as a therapeutic vulnerability in BRAFi-resistant melanoma. *EMBO molecular medicine*, 14(12), e15677.

Gautron A, et al. (2021) CRISPR screens identify tumor-promoting genes conferring melanoma cell plasticity and resistance. *EMBO molecular medicine*, 13(5), e13466.

Evtushenko NA, et al. (2021) hTERT-Driven Immortalization of RDEB Fibroblast and Keratinocyte Cell Lines Followed by Cre-Mediated Transgene Elimination. *International journal of molecular sciences*, 22(8).

Pascual R, et al. (2020) mRNA spindle localization and mitotic translational regulation by CPEB1 and CPEB4. *RNA (New York, N.Y.)*, 27(3), 291.

Bürgi J, et al. (2020) Ligand Binding to the Collagen VI Receptor Triggers a Talin-to-RhoA Switch that Regulates Receptor Endocytosis. *Developmental cell*, 53(4), 418.

Serebrovskaya EO, et al. (2020) Genetically Encoded Fluorescent Sensor for Poly-ADP-Ribose. *International journal of molecular sciences*, 21(14).

Kauzlaric A, et al. (2020) KAP1 targets actively transcribed genomic loci to exert pleomorphic effects on RNA polymerase II activity. *Philosophical transactions of the Royal*

Society of London. Series B, Biological sciences, 375(1795), 20190334.

Smolina N, et al. (2020) Desmin mutations result in mitochondrial dysfunction regardless of their aggregation properties. *Biochimica et biophysica acta. Molecular basis of disease*, 1866(6), 165745.

Sommer N, et al. (2020) Bypassing mitochondrial complex III using alternative oxidase inhibits acute pulmonary oxygen sensing. *Science advances*, 6(16), eaba0694.

Turelli P, et al. (2020) Primate-restricted KRAB zinc finger proteins and target retrotransposons control gene expression in human neurons. *Science advances*, 6(35), eaba3200.

Shen E, et al. (2019) Control of Germinal Center Localization and Lineage Stability of Follicular Regulatory T Cells by the Blimp1 Transcription Factor. *Cell reports*, 29(7), 1848.

Corre S, et al. (2018) Sustained activation of the Aryl hydrocarbon Receptor transcription factor promotes resistance to BRAF-inhibitors in melanoma. *Nature communications*, 9(1), 4775.

Farshchian M, et al. (2018) Suppression of dsRNA response genes and innate immunity following Oct4, Stella, and Nanos2 overexpression in mouse embryonic fibroblasts. *Cytokine*, 106, 1.

Coluccio A, et al. (2018) Individual retrotransposon integrants are differentially controlled by KZFP/KAP1-dependent histone methylation, DNA methylation and TET-mediated hydroxymethylation in naïve embryonic stem cells. *Epigenetics & chromatin*, 11(1), 7.