# **Resource Summary Report**

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# **CREST**

RRID:SCR\_005257

Type: Tool

## **Proper Citation**

CREST (RRID:SCR\_005257)

### **Resource Information**

#### **URL:**

http://toolshed.g2.bx.psu.edu/repository/display\_tool?repository\_id=5d0de444b1f9ac52&tool\_config=da

**Proper Citation:** CREST (RRID:SCR\_005257)

**Description:** An algorithm for detecting genomic structural variations at base-pair resolution using next-generation sequencing data. CREST uses pieces of DNA called soft clips to find structural variations. Soft clips are the DNA segments produced during sequencing that fail to properly align to the reference genome as the sample genome is reassembled. CREST uses the soft clips to precisely identify sites of chromosomal rearrangement or where pieces of DNA are inserted or deleted.

**Abbreviations: CREST** 

**Resource Type:** software resource

**Defining Citation:** PMID:21666668

**Keywords:** genome, structural variation, next-generation sequencing, soft clip

**Funding:** 

**Resource Name: CREST** 

Resource ID: SCR\_005257

Alternate IDs: OMICS\_00312

Record Creation Time: 20220129T080229+0000

Record Last Update: 20250525T030902+0000

## **Ratings and Alerts**

No rating or validation information has been found for CREST.

No alerts have been found for CREST.

### Data and Source Information

Source: SciCrunch Registry

## **Usage and Citation Metrics**

We found 42 mentions in open access literature.

**Listed below are recent publications.** The full list is available at NIF.

Zou H, et al. (2024) Dynamic monitoring of circulating tumor DNA reveals outcomes and genomic alterations in patients with relapsed or refractory large B-cell lymphoma undergoing CAR T-cell therapy. Journal for immunotherapy of cancer, 12(3).

Pho M, et al. (2024) Nuclear shape is affected differentially by loss of lamin A, lamin C, or both lamin A and C. microPublication biology, 2024.

Pho M, et al. (2024) Actin contraction controls nuclear blebbing and rupture independent of actin confinement. Molecular biology of the cell, 35(2), ar19.

Peng H, et al. (2024) Cembranoid Diterpenes from South China Sea Soft Coral Sarcophyton crassocaule. Marine drugs, 22(12).

Tang L, et al. (2024) Cytotoxic and Antibacterial Meroterpenoids Isolated from the Marine-Derived Fungus Talaromyces sp. M27416. Marine drugs, 22(4).

Johnson N, et al. (2024) SARS-CoV-2 Spike Protein-Derived Cyclic Peptides as Modulators of Spike Interaction with GRP78. Chembiochem: a European journal of chemical biology, 25(12), e202300789.

Zhao R, et al. (2023) Nitrite accumulation and anammox bacterial niche partitioning in Arctic Mid-Ocean Ridge sediments. ISME communications, 3(1), 26.

Chiu K, et al. (2023) CTCF is essential for proper mitotic spindle structure and anaphase segregation. bioRxiv: the preprint server for biology.

Jiang Y, et al. (2023) Spiroleiferthione A and Oleiferthione A: Two Unusual Isothiocyanate-Derived Thioketone Alkaloids from Moringa oleifera Lam. Seeds. Pharmaceuticals (Basel, Switzerland), 16(3).

Xu X, et al. (2023) Effects of water flossing on gingival inflammation and supragingival plaque microbiota: a 12-week randomized controlled trial. Clinical oral investigations, 27(8), 4567.

Häfner D, et al. (2023) Machine-guided discovery of a real-world rogue wave model. Proceedings of the National Academy of Sciences of the United States of America, 120(48), e2306275120.

Golriz N, et al. (2023) Penetration and durability of CPP-ACP paste and sodium fluoride varnish as desensitizing agents: An in vitro comparison. Journal of dental research, dental clinics, dental prospects, 17(2), 119.

Ren Z, et al. (2022) Meroterpenoids and Steroids from the Marine-Derived Fungus Trametes sp. ZYX-Z-16. Molecules (Basel, Switzerland), 27(24).

Siewert R, et al. (2022) Non-Covalent Interactions in Molecular Systems: Thermodynamic Evaluation of the Hydrogen-Bond Strength in Amino-Ethers and Amino-Alcohols. Chemistry (Weinheim an der Bergstrasse, Germany), 28(27), e202200080.

Astakala RV, et al. (2022) Mutactimycin AP, a New Mutactimycin Isolated from an Actinobacteria from the Atacama Desert. Molecules (Basel, Switzerland), 27(21).

Al-Hashedi AA, et al. (2022) Aragonite toothpaste for management of dental calculus: A double-blinded randomized controlled clinical trial. Clinical and experimental dental research, 8(4), 863.

Liu HY, et al. (2022) Epithelial Heat Shock Proteins Mediate the Protective Effects of Limosilactobacillus reuteri in Dextran Sulfate Sodium-Induced Colitis. Frontiers in immunology, 13, 865982.

Khafagy ES, et al. (2022) Preparation and Characterization of a Novel Mucoadhesive Carvedilol Nanosponge: A Promising Platform for Buccal Anti-Hypertensive Delivery. Gels (Basel, Switzerland), 8(4).

Garate L, et al. (2022) Shared and contrasting associations in the dynamic nano- and picoplankton communities of two close but contrasting sites from the Bay of Biscay. Environmental microbiology, 24(12), 6052.

Jiang NN, et al. (2022) Discovery of dearomatized isoprenylated acylphloroglucinols with colon tumor suppressive activities in mice via inhibiting NF?B-FAT1-PDCD4 signaling activation. European journal of medicinal chemistry, 239, 114532.