

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=

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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

Resource Name: CREST

Resource ID: SCR_005257

Alternate IDs: OMICS_00312

Record Creation Time: 20220129T080229+0000

Record Last Update: 20260912T195623+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 57 mentions in open access literature.

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

Ruiz-González C, et al. (2026) The Elusive Fraction of Marine Plankton Diversity: Size, Abundance and Taxonomic Composition of 0.2 μ m-Filterable Prokaryotes Across Three Contrasting Coastal Environments. *Molecular ecology*, 35(12), e70434.

Friske JD, et al. (2026) A Conserved Enhancer Locus in Extrachromosomal DNA and Homogeneously Staining Regions Activates MYC Transcription in Group 3 Medulloblastoma. *Cancer research*, 86(13), 3160.

Clark M, et al. (2026) Nuclear blebs are composed of variable chromatin states but consistently enrich transcription initiation relative to elongation. *bioRxiv : the preprint server for biology*.

Buri? N, et al. (2025) Elucidating the Structures of Substituted Adamantyl Esters and Ethers Using Rotational Spectroscopy and Computations. *Chemphyschem : a European journal of chemical physics and physical chemistry*, 26(15), e202500035.

Chu CG, et al. (2025) Lamin B loss in nuclear blebs is rupture dependent while increased DNA damage is rupture independent. *bioRxiv : the preprint server for biology*.

Yuan YY, et al. (2025) Xylariaiides A and B, novel cytochalasans with a unique 5/6/5/3 ring system from a soil fungus *Xylaria* sp. Y01. *Natural products and bioprospecting*, 15(1), 23.

Aydan Alkan E, et al. (2025) Tuning the Transparency and Exciton Transition of D-?-A-?-D Type Small Molecules. *Chemistry (Weinheim an der Bergstrasse, Germany)*, 31(45), e00657.

Yang G, et al. (2025) Anti-Neuroinflammatory Eremophilane Sesquiterpenoids from Marine-Derived Fungus *Phoma* sp. DXH009. *Marine drugs*, 23(3).

de Koning JC, et al. (2025) Rapid On-Site NIR Spectroscopic Characterization of CWA Liquids Using a Novel 3D-Printed Glass Cell. *Analytical chemistry*, 97(38), 20973.

Gosecka M, et al. (2025) Construction of Dynamic Hydrogel Inducing Effective and Selective 5-Fluorouracil Monotherapy against Cervical Cancer Cells. *ACS applied materials & interfaces*, 17(9), 13427.

Prince K, et al. (2025) Transcriptional activity generates chromatin motion that drives nuclear blebbing. *bioRxiv : the preprint server for biology*.

Walsh E, et al. (2025) CTCF maintains pericentromere function and mitotic fidelity. *bioRxiv* : the preprint server for biology.

Most MM, et al. (2025) Glucose-derived receptors for photo-controlled binding of amino acid esters in water. *Communications chemistry*, 8(1), 50.

Umeda M, et al. (2025) Fusion oncoproteins and cooperating mutations define disease phenotypes in NUP98-rearranged leukemia. *medRxiv* : the preprint server for health sciences.

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).

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

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

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.

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.