

Resource Summary Report

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ARIEL

RRID:SCR_009126

Type: Tool

Proper Citation

ARIEL (RRID:SCR_009126)

Resource Information

URL: <http://www.sanger.ac.uk/resources/software/ariel/>

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Description: Software application that explores the effects of rare variants within complex traits through locus-based analysis. There is increasing evidence that rare variants play a role in some complex traits, but their analysis is not straightforward. Locus-based tests become necessary due to low power in rare variant single-point association analyses. In addition, variant quality scores are available for sequencing data, but are rarely taken into account. To enable this analysis, ARIEL has been developed as a locus-wide regression-based collapsing approach that incorporates variant quality scores. (entry from Genetic Analysis Software)

Abbreviations: ARIEL

Synonyms: Accumulation of Rare variants Integrated and Extended Locus-specific test

Resource Type: software application, software resource

Keywords: gene, genetic, genomic, r, unix, linux

Resource Name: ARIEL

Resource ID: SCR_009126

Alternate IDs: nlx_154231

Record Creation Time: 20220129T080251+0000

Record Last Update: 20260912T200240+0000

Ratings and Alerts

No rating or validation information has been found for ARIEL.

No alerts have been found for ARIEL.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 48 mentions in open access literature.

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

Koutalis S, et al. (2026) Virtual reconstruction and analysis of the face of DFN3-150 Paradolichopithecus aff. arvernensis specimen from Dafnero, Greece. Scientific reports, 16(1).

Davenport ML, et al. (2025) Differential pathology and susceptibility to MBNL loss across muscles in myotonic dystrophy mouse models. JCI insight, 10(18).

van der Vleuten-Chraibi S, et al. (2025) Magnetic resonance imaging related anxiety and workflow: impact of a child-friendly audio-visual intervention. Pediatric radiology, 55(9), 1934.

Zakharov S, et al. (2025) Creative support: Enhancing well-being in mild and moderate cognitive impairment through museum interventions. Dementia (London, England), 24(6), 1156.

Rabalao TM, et al. (2025) A facile plant and chemical-mediated mechanosynthesis of γ -Fe₂O₃ nanoparticles. RSC advances, 15(21), 16792.

Kong N, et al. (2025) Machine Learning-Guided Fluid Resuscitation for Acute Pancreatitis Improves Outcomes. Clinical and translational gastroenterology, 16(4), e00825.

Krukow P, et al. (2024) Tracking EEG network dynamics through transitions between eyes-closed, eyes-open, and task states. Scientific reports, 14(1), 17442.

Segal H, et al. (2024) Walking to a number: is there affective involvement in generating the SNARC effect in numerical cognition? Frontiers in psychology, 15, 1384818.

Davenport ML, et al. (2024) Spiny mice are primed but fail to regenerate volumetric skeletal muscle loss injuries. Skeletal muscle, 14(1), 26.

Hayek R, et al. (2024) Smartphone-Based Sit-to-Stand Analysis for Mobility Assessment in Middle Age. Innovation in aging, 8(10), igae079.

Xu Y, et al. (2023) Increased Expression Levels of Thermophilic Serine Protease TTHA0724 through Signal Peptide Screening in Bacillus subtilis and Applications of the Enzyme. International journal of molecular sciences, 24(21).

Rivers ML, et al. (2023) Test Experience, Direct Instruction, and Their Combination Promote Accurate Beliefs about the Testing Effect. *Journal of Intelligence*, 11(7).

Karajeanes E, et al. (2023) The Infomóvel-An information system for managing HIV/AIDS patients in rural areas of Mozambique. *BMC medical informatics and decision making*, 23(1), 187.

Furth DG, et al. (2023) ?Rediscovery of a lost semi-aquatic Leaf Beetle in the Hula Valley, Israel (Coleoptera, Chrysomelidae, Donaciinae). *ZooKeys*, 1177, 57.

Roulé T, et al. (2022) The lncRNA MARS modulates the epigenetic reprogramming of the marneral cluster in response to ABA. *Molecular plant*, 15(5), 840.

Niu Y, et al. (2022) Enhancing User Experience of Eye-Controlled Systems: Design Recommendations on the Optimal Size, Distance and Shape of Interactive Components from the Perspective of Peripheral Vision. *International journal of environmental research and public health*, 19(17).

Helal SE, et al. (2021) Lipase from *Rhizopus oryzae* R1: in-depth characterization, immobilization, and evaluation in biodiesel production. *Journal, genetic engineering & biotechnology*, 19(1), 1.

Cavello I, et al. (2021) The keratinolytic bacteria *Bacillus cytotoxicus* as a source of novel proteases and feather protein hydrolysates with antioxidant activities. *Journal, genetic engineering & biotechnology*, 19(1), 107.

Yau HCL, et al. (2021) Removal of eDNA from fabrics using a novel laundry DNase revealed using high-resolution imaging. *Scientific reports*, 11(1), 21542.

Ravindran N, et al. (2021) Concordance of mother-child respiratory sinus arrhythmia is continually moderated by dynamic changes in emotional content of film stimuli. *Biological psychology*, 161, 108053.