

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 resource, software application

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: 20260801T191044+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 47 mentions in open access literature.

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

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.

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.

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

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

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

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

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.

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.

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 maternal 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).
- 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.
- 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.
- Fitousi D, et al. (2021) Understanding the Impact of Face Masks on the Processing of Facial Identity, Emotion, Age, and Gender. *Frontiers in psychology*, 12, 743793.
- Knebel D, et al. (2021) Collective motion as a distinct behavioral state of the individual. *iScience*, 24(4), 102299.
- 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.