

Resource Summary Report

Generated by SPARC SAWG on Jul 28, 2026

CORAL

RRID:SCR_022711

Type: Tool

Proper Citation

CORAL (RRID:SCR_022711)

Resource Information

URL: <https://github.com/jmchandonia/CORAL>

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Description: Software tool as framework for rigorous self validated data modeling and integrative, reproducible data analysis.

Abbreviations: CORAL

Synonyms: Contextual Ontology based Repository Analysis Library

Resource Type: software application, software resource, data processing software, data analysis software

Keywords: FAIR data, Contexton, Microtype, Data Management, Provenance, Data Analysis, Jupyter

Funding: US Department of Energy

Availability: Free, Available for download, Freely available

Resource Name: CORAL

Resource ID: SCR_022711

License: AGPL

Record Creation Time: 20220830T050156+0000

Record Last Update: 20260728T043648+0000

Ratings and Alerts

No rating or validation information has been found for CORAL.

No alerts have been found for CORAL.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 74 mentions in open access literature.

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

Koning HJ, et al. (2025) Structural plasticity of the coiled-coil interactions in human SFPQ. Nucleic acids research, 53(2).

Kok N, et al. (2025) CD28 signaling domain boosts persistence and in vivo anti-tumor activity of stem cell-derived CD19-CAR-NK cells. iScience, 28(6), 112548.

Pokhrel S, et al. (2025) A hidden cysteine in Fis1 targeted to prevent excessive mitochondrial fission and dysfunction under oxidative stress. Nature communications, 16(1), 4187.

Ma C, et al. (2025) Pre-training, personalization, and self-calibration: all a neural network-based myoelectric decoder needs. Frontiers in neurorobotics, 19, 1604453.

Ovaskainen O, et al. (2025) Common to rare transfer learning (CORAL) enables inference and prediction for a quarter million rare Malagasy arthropods. Nature methods, 22(10), 2074.

Toropova AP, et al. (2025) Using the Coefficient of Conformism of a Correlative Prediction in Simulation of Cardiotoxicity. Toxics, 13(4).

Kim JH, et al. (2025) Domain-generalized Deep Learning for Improved Subject-independent Emotion Recognition Based on Electroencephalography. Experimental neurobiology, 34(3), 119.

Larruy-García A, et al. (2025) Validity of the MED4CHILD tool for assessing adherence to the Mediterranean diet in preschool children. European journal of pediatrics, 184(2), 130.

Toropova AP, et al. (2025) Monte Carlo Simulation of Pesticide Toxicity for Rainbow Trout (*Oncorhynchus mykiss*) Using New Criteria of Predictive Potential. Journal of xenobiotics, 15(3).

Lee WH, et al. (2025) Insulin receptor responsiveness governs TGF β -induced hepatic stellate cell activation: Insulin resistance instigates liver fibrosis. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 39(5), e70427.

- Li Y, et al. (2025) Suppressing recurrence in Sonic Hedgehog subgroup medulloblastoma using the OLIG2 inhibitor CT-179. *Nature communications*, 16(1), 1091.
- Klimenko V, et al. (2025) The Paulinella chromatophore transit peptide part2 adopts a structural fold similar to the γ -glutamyl-cyclotransferase fold. *Plant physiology*, 199(2).
- Elahi A, et al. (2025) Machine Learning, Generalization, and Transfer Learning for Predicting the Exceedance of Fecal Indicator Bacteria Thresholds at Beaches. *Environmental science & technology*, 59(42), 22386.
- Patricoski-Chavez JA, et al. (2025) A deep learning model to predict glioma recurrence using integrated genomic and clinical data. *Communications medicine*, 5(1), 359.
- Askarzade A, et al. (2025) SMILES-based QSAR and molecular docking studies of chalcone analogues as potential anti-colon cancer. *Scientific reports*, 15(1), 6573.
- Arnold L, et al. (2025) DCLK1-mediated regulation of invadopodia dynamics and matrix metalloproteinase trafficking drives invasive progression in head and neck squamous cell carcinoma. *Molecular cancer*, 24(1), 50.
- Yang Y, et al. (2025) Discriminative fault diagnosis transfer learning network under joint mechanism. *Scientific reports*, 15(1), 8888.
- Gupta R, et al. (2025) Incident Heart Failure in Atherosclerotic Renal Artery Stenosis: A Post Hoc Analysis of the CORAL Trial. *Kidney medicine*, 7(2), 100948.
- Lotfi S, et al. (2025) Construction of reliable QSPR models for predicting the impact sensitivity of nitroenergetic compounds using correlation weights of the fragments of molecular structures. *Scientific reports*, 15(1), 11160.
- Foil DH, et al. (2025) Comparative Chemical Space Analysis of Pesticides and Substances with Genotoxicity Data. *Chemical research in toxicology*, 38(11), 1871.