

Resource Summary Report

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

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: 20260801T190801+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 [ASWG](#).

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.

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.

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

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.

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.

Yang Y, et al. (2025) Discriminative fault diagnosis transfer learning network under joint mechanism. *Scientific reports*, 15(1), 8888.

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.

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.

Dali S, et al. (2025) Specific phosphoinositide interaction of Jps1 is a key feature during unconventional secretion in *Ustilago maydis*. *The Journal of biological chemistry*, 301(6), 110215.

Dandasena D, et al. (2025) *Theileria annulata* Hijacks Host Signaling: Integrated Phosphoproteomics and Transcriptomics Unveils ERK1/2 as a Central Regulator of Host Transcription Factors. *Molecular & cellular proteomics : MCP*, 24(6), 100992.