

# Resource Summary Report

Generated by T1D on Aug 3, 2026

## CORAL

RRID:SCR\_022711

Type: Tool

---

### Proper Citation

CORAL (RRID:SCR\_022711)

---

### Resource Information

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

**Proper Citation:** CORAL (RRID:SCR\_022711)

**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 analysis software, software resource, data processing software, software application

**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:** 20260803T040828+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 [T1D](#).

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 $\beta$ -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  $\gamma$ -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.