

## Bioinformatics Core & Analytical Services for the California Institute for Regenerative Medicine (CIRM) Alpha Clinics Network

**UC San Diego's Center for Computational Biology & Bioinformatics (CCBB)** is a collaborative center that provides investigators with bioinformatics expertise to analyze large molecular datasets and develop novel algorithms. We have expertise in genomics, transcriptomics, epigenomics, systems biology and translational medicine. Our services include data analysis, biological interpretation, grant writing and training.

### KEY SERVICES PROVIDED

**Analysis of genomics, transcriptomics, and epigenomics datasets** along with extensive experience in examining bulk, single-cell, and single-molecule datasets.

**Advanced infrastructure for rapid processing of big multi-omics datasets** in both HIPPA-compliant and dbGaP compliant computing environments.

**Machine learning expertise** in developing next-generation of artificial intelligence (AI) approaches for precision medicine

### VALUE TO RESEARCHERS

**Studies of molecular drivers of treatment response** and resistance to better understand interpatient heterogeneity.

**Support development of accurate molecular diagnostic tests** and of prognostic tests to determine which patients would be most likely to benefit from certain stem cell-directed therapies.

**Improve predictive stem cell models** for development of cellular therapeutics as well as active small molecule and antibody combination therapy.

To discuss how we can provide services for your CIRM Alpha Clinic Network trials, please contact us at [KFisch@health.ucsd.edu](mailto:KFisch@health.ucsd.edu).