CEDAR

Center for Expanded Data Annotation and Retrieval

MISSION: To make data submission smarter and faster, so biomedical researchers and analysts can create and use better metadata.

CEDAR

THE MOBILIZE CENTER

The National Center for Mobility Data Integration to Insight

mobilize

MISSION: To overcome the challenges of analyzing large data sets that describe human movement and to improve human movement across the wide range of conditions that limit mobility.

KNOWENG:

A Scalable Knowledge Engine for Large-Scale Genomic Data

knoweng
BIG DATA TO KNOWLEDGE

MISSION: To transform the way biomedical researchers analyze their genome-wide data by integrating multiple analytical methods derived from the most advanced data mining and machine learning research.

BDTG

Center for Big Data in Translational Genomics

MISSION: A partnership coordinated by UC Santa Cruz to create scalable infrastructure for the broad application of genomics in biomedicine.

BDTG

HEART BD2K

A Community Effort to Translate Protein Data to Knowledge: An Integrated Platform

MISSION: To advance cardiovascular medicine through innovations in data science platforms and tools to enlist community contributions in Big Data computing.

BD2K

bioCADDIE*

Biological and HealthCare Data Discovery and Indexing Ecosystem

bio CADDIE

MISSION: To develop a prototype data discovery index that will enable finding, accessing and citing biomedical big data.

* bioCADDIE received a Data Discovery Index Coordination Consortium (DDICC) Award through the BD2K program

ENIGMA:

Enhancing Neuroimaging Genetics through Meta Analysis

MISSION: To bring together researchers in imaging genomics to understand brain structure, function, and disease, based on brain imaging and genetic data.

ENIGMA

BDDS

Big Data for Discovery Science Center

BDDS

MISSION: To take an "-ome to home" approach toward streamlining big data management, aggregation, manipulation, integration, and the modeling of biological systems across spatial and temporal scales.

BD2K CENTERS:

CPCP
Center for Predictive Computational Phenotyping

MISSION: To developing methods for modeling and predicting thousands of phenotypes to advance biomedical science and improve human health.

PIC-SURE
Patient-Centered Information Commons: Standardized Unification of Research Elements

MISSION: To create a massively scalable toolkit to enable large, multi-center Patient-centered Information Commons (PIC) at local, regional, and national scale, where the focus is the alignment of all available biomedical data (genetic, environmental, imaging, behavioral, or clinical) per individual.

CCD
Center for Causal Modeling and Discovery of Biomedical Knowledge from Big Data

MISSION: To find meaningful relationships in big data that lead to new insights into health and disease.

LINCS TRANSCRIPTOMICS
Broad Institute LINCS Center for Transcriptomics

MISSION: To develop comprehensive signatures of cellular states that can be used by the entire research community to understand protein function, small-molecule action, physiological states and disease states.
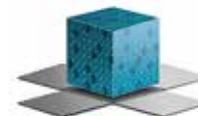
MD2K
Center of Excellence for Mobile Sensor Data-to-Knowledge

MISSION: To develop Big Data solutions to quantify physical, biological, behavioral, social, and environmental factors that contribute to health and wellness in daily life.

BD2K-LINCS-DCIC
LINCS-BD2K Perturbation Data Coordination and Integration Center

MISSION: To construct a high-capacity scalable integrated knowledge environment enabling federated access, intuitive querying and integrative analysis and visualization across all LINCS resources and many additional external data types from other relevant resources.

The Basics