

## Enterprise Data Translational Architecture (EDTA)

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### Abstract

*The future of clinical and translational research depends on the ability to gather, store, retrieve and analyze vast quantities and different kinds of data rapidly. These data sets consist of data ranging from genes and molecules to clinical parameters of individuals and characteristics of entire populations. Their acquisition, curation and comprehensive analyses will form the basis of modern medical practice, occupying a central place in the development of translational research and personalized medicine. The architecture employs standard Ontologies to provide a consistent and common data*

*infrastructure for all clinical data at Mount Sinai. The Enterprise Data Translational Architecture (EDTA) is designed as a service oriented architecture (SOA) to provide researchers with optimal access to clinical genomic datasets in support of translational research and personalized medicine.*

### **Keywords:**

Translational research, Personalized medicine, Enterprise Data Translational Architecture (EDTA)