**Course: Advance Bio Informatics**

**Module Title: MBO (Ontology for Molecular Biology)**

**Module No: 77**

**MBO (Ontology for Molecular Biology)**

Intended to provide clarity and communication within the molecular biology database community.

Captures a very wide range of biological concepts and contains over 1200 nodes.

Contains concepts and relationships required to describe biological objects, experimental procedures and computational aspects of molecular biology.

**EcoCyc Ontology**

Single organism ontology intended to capture genome and full biochemical network of Escherichia coli.

Describes the known genes of (E-Coli)

Escherichia coli, the enzymes of small-molecule metabolism the reactions catalyzed by each enzyme, and the organization of these reactions into metabolic pathways.

Includes 139 metabolic, 20 signaling pathways, 946 reactions, 629 enzymes, and 4390 genes.