**Course: Advance Bio Informatics**

**Module Title: Open Biomedical Ontologies (OBO)**

**Module No: 72**

**OBO**

An umbrella project for grouping different ontologies in biological and medical field. A repository for ontologies with defined set of standards.

Creating ontologies takes a lot of work. Makes sense to reuse existing ontologies where possible. Improves data integration where small set of ontologies used. It allows ontologies to be made available from a single place.

To be part of OBO, ontologies must: Be open, can be used by all without any constraint. Be in a common shared syntax

To be part of OBO, ontologies must: Not overlap with other ontologies in OBO. Share a unique identifier space. For example, the GO identifier is GO: No other OBO ontology could use this id space.

**Open Biomedical Ontologies (OBO)**

-Open and are in GO syntax or

DAML+OIL

-Orthogonal to existing ontologies to facilitate combinatorial approaches

-Share unique identifier space

-Include definitions

* Anatomies
* Cell Types
* Sequence Attributes
* Temporal Attributes
* Phenotypes
* Diseases
* More....