**Course: Advanced Bioinformatics**

**Module title: IR in Bioinformatics**

**Module no. : 172**

Need of IR is to discover & access appropriate bioinformatics resource according to the users need. There is a further requirement of interesting publications with explicit classification of the relevant topics. Biological data is heterogeneous & several kinds of data, information and knowledge is scattered about biological domains.

Following are the goals of IR in bioinformatics

* Provide access to unstructured knowledge
* Link publications with structured resources
* Visualizing contents for better understanding
* Novel hypotheses and to discover knowledge

Some common data store for bioinformatics data are the following

**MedLine:** a bibliographic db of life sciences and biomedical info.

Medicine, nursing, pharmacy, dentistry

**PubMed:** free search engine accessing MEDLINE DB of references & abstracts on life sciences & biomedical topics

**Toxline**

rapid access to info. in all areas of toxicology

* Air pollution
* Antidotes
* Biological and adverse effects of drugs
* Environmental chemicals and pollutants
* Genotoxicity
* Health and safety

**PubMed Central:** archives publicly accessible full-text scholarly articles within the biomedical & life sciences journal literature

**BioMed Central:** publish over 200 scientific journals describes itself as first & largest open access science publisher