

Course announcement: Summer semester 2016 (Session 3)  
**BIOL 572: Recombinant DNA technology: Lecture and Laboratory**  
**(4 units)**

**Instructor: Dr. Chhandak Basu**

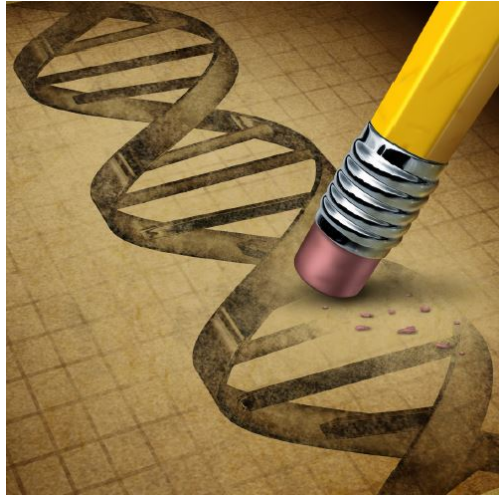


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**Examples of topics covered (Lecture):**

Vectors for Gene Cloning: Plasmids and Bacteriophages

Manipulation of Purified DNA

Introduction of DNA into Living Cells

Sequencing Genes and Genomes

Studying Gene Expression and Function

Studying Genomes

**Examples of lab activities:**

Extraction of DNA and RNA from prokaryotes and eukaryotes

Gene cloning

Genetic transformation of plants and bacteria

Virtual cloning (Computer based training on PCR based cloning into plasmid vectors)

Gene expression studies including quantitative real time RT PCR

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