BIOLOGICAL FRAMEWORKS FOR ENGINEERS

Session #8 [nm: Genes, Decoding, and Mutations]

General Objectives:

- ✓ Introduction to genetic sequencing techniques
- ✓ Identify and discuss the basis for mutations

Central Framework:

 Decoding genetic information is technology driven and advances in understanding of sequences and mutations often come after the discover of a new approach of technique

Interactive Activity:

✓ Worksheet on mutation

Session Outline:

- I. Genes
- II. Decoding
 - A. Restriction endonuclease
 - B. Sanger Method
 - C. Electrophoresis

- D. Automatic Sequencing
- E. Splicing
- F. PCR

II. Genetic Mutation

A. Point mutations

B. Rearrangement mutations