



# BioBasics: Biotech for the Non-Scientist

**Dates:** June 17-18, 2010

**Time:** 9:00am-4:30pm

**Location:** Latham & Watkins, 140 Scott Drive, Menlo park, CA 94025

**Fee:** BayBio Members: \$845 Non-Members: \$945 **Discount Code:** BB1117 No refunds given

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## Day 1

### Industry Overview 9:00-9:45

- Evolution of Biotechnology
- Industry Sectors
- USA & Global Industry Clusters

### Biology Basics 9:45-10:30

- Biotechnology Goals
- Cell Structure & Function

### DNA 10:45-12:00

- DNA Structure & Function
- Chromosomes & Genes
- Mutations
- Genetic Variation
- Pharmacogenomics

### Lunch 12:00-1:00

### Gene Expression 1:00-2:30

- DNA to Proteins
- Protein Structure & Function
- Measuring Gene Expression
- RNA Interference

### Genomics 2:45-4:30

- How to Study the Genome
- PCR
- Restriction Enzymes
- DNA Fingerprinting
- Microarrays

## Day 2

### Genetic Engineering 9:00-10:00

- Recombinant DNA
- Plasmids
- Generically Engineered Cells
- Disease Models

### Proteomics 10:00-11:00

- How to Study the Proteome
- Microarrays & Chromatography

### Stem Cells 11:15-12:30

- Properties of Stem Cells
- Types of Stem Cells
- Promises & Challenges

### Lunch: 12:30-1:30

### Immune Response 1:30-2:30

- Inflammation
- T & B Cells
- Monoclonal Antibodies
- Vaccines

### Drug Discovery & Development 2:45-4:30

- Drug Discovery Timeline
- Rational Drug Discovery
- Target Validation
- Preclinical & Clinical Trials
- Generics & Biosimilars

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**Deliverables:** A reference manual containing all of the slides used in the class, additional scientific information and a glossary of biotech terms. A light breakfast and lunch will be served.

**Questions?** Contact BioTech Primer at 410-377-4429 or [info@BiotechPrimerInc.com](mailto:info@BiotechPrimerInc.com)

**To Register:** [www.BiotechPrimerInc.com](http://www.BiotechPrimerInc.com) and click on "Registration"