



BioBasics: Biotech for the Non-Scientist

Date: June 24-25, 2010

Time: 9:00am-4:30pm

Location: BioFlorida, 525 Okeechobee Blvd, 15th Fl, West Palm Beach, FL 33401

Fee: BioFlorida Members: \$845 Non-Members: \$945 **Discount Code:** BF0624 No refunds given

Hotel Special: Hyatt Place West Palm Beach \$139 plus tax per night, Group Name: BioTech Primer

Group Code: G-BIOT Reservations: 561-655-1454 and ask for the Biotech Primer rate

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

Genetic Engineering 2:45-4:30

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

Day 2

Genomics 9:00-10:00

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

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
 - Pharmacogenomics
 - Preclinical and Clinical Trials
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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. Light breakfast and lunch will be served. **Questions?** Contact BioTech Primer at 410-377-4429 or info@BiotechPrimerInc.com **To Register:** www.BiotechPrimerInc.com and click on "Registration"