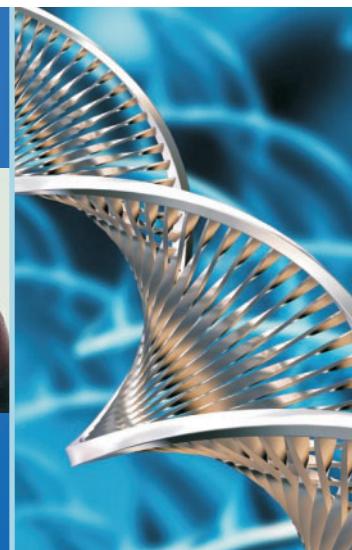


BioBasics: Biotech for the Non-Scientist

Date: April 19-20, 2012
Time: 9:00am - 4:30pm
Fee: Members \$845
Non-Members \$945
Location: RWJ Hamilton
3100 Quakerbridge Road
Hamilton, NJ 08619



Day One

Industry Overview 9:00 – 9:30

Biotechnology Defined
Industry Sectors
Academia

Biology: The Basis of Biotech 9:30 – 10:30

Biotechnology Goals
Cell Structure & Function
Lab: DNA Isolation & Extraction

Break 10:30 – 10:45

DNA 10:45 – 12:30

DNA Structure & Function
Chromosomes & Genes
Activity: Genetics Wheel
Mutations
Genetic Variation
Activity: Genetic Variation Taste Test
Genetic Basis of Disease
Personalized Medicine

Lunch 12:30 – 1:30

Gene Expression: Proteins 1:30 – 2:45

DNA to Proteins
Transcriptions & Translation
Protein Structure & Function
Activity: Protein Synthesis Paper Lab
Proteins in Disease
RNA Interference

Break: 2:45 – 3:00

Genetic Engineering 3:00 – 4:15

Plasmids
Recombinant DNA
Genetically Engineered Cells
Recombinant Proteins
Biologics
Disease Models

Q&A / Review 4:15 – 4:30

Day Two

Geonomics 9:00 – 10:00

Geonomics Defined
Tools: PCR, DNA Sequencing, Microarrays
Activity: Microarray to Determine Drug Metabolism

Antibodies: Key to Research & Biologics 10:00 – 11:00

Antibodies Defined
Antibodies Production
Therapeutic Applications
Research Applications
Diagnostic Applications

Break 11:00 – 11:15

Proteomics 11:15 – 12:30

Proteomics Defined
Tools: Chromatography, Mass Spec, Protein Microarrays
Lab: Protein Electrophoresis

Lunch 12:30 – 1:30

Stem Cells & Regenerative Medicine 1:30 – 2:15

Stem Cell Properties
Promises & Challenges
Organ & Tissue Replacement

Break: 2:15 – 2:30

Drug Discovery 2:30 – 3:30

Target Identification & Validation
Therapeutic Options
Regulatory Agencies
Preclinical & Clinical Trials

Biosimilars & Biomanufacturing 3:30 – 4:15

Biosimilars Defined
Generics – vs – Biosimilars
Biosimilar Challenges
Biomanufacturing Overview

Q&A / Review 4:15 – 4:30

Course Description

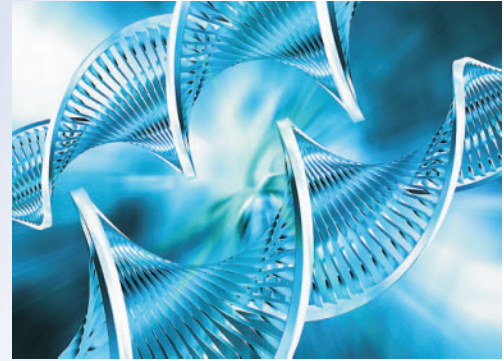
BioBasics is a two-day course for the non-scientist which highlights science and technology concepts that are the basis of the biotechnology industry. The course is for participants that require a working knowledge of fundamental terms and applications.

BioNJ[™]
Advancing the State of Biotechnology

biotechPrimer
Industry Knowledge Delivered

Instructor:
Emily Burke, Ph.D.

Dr. Burke is the Director of Curriculum at BioTech Primer and is charged with customizing training for clients as well as delivering training sessions. She received her B.S. in Biological Sciences from Carnegie Mellon University and her Ph.D. in Molecular Biology from the University of South Alabama. Prior to joining BioTech Primer, Dr. Burke conducted research on the molecular pathogenesis of respiratory syncytial virus and Lassa fever virus at The Scripps Research Institute in La Jolla, CA. In addition to her years of research experience Dr. Burke has a strong background in scientific writing, having worked as a patent writer at Isis Pharmaceuticals in Carlsbad, CA. Dr. Burke has also taught biology and biotechnology classes at San Diego Miramar College.



Deliverables:

A reference manual containing all of the slides used in the class, all labs and activities, a glossary of biotech terms, and a certificate of completion. Lunch will be served.

Refunds:

Refunds are not given. Registrants may not switch classes. If a registrant cannot attend, someone from their organization may take their place. Please contact Kerri Muir with substitute name and contact information.

Questions?

Contact Kerri Muir at 410.377.4429 x22 or Muir@BiotechPrimerInc.com

To Register:

www.BiotechPrimerInc.com Follow the links to the BioBasics course.



What People are Saying.....

Erin Deemer, Leadership Development, Biogen Idec

“Biotech Primer helps our non-scientists understand the basic science & technology used to develop our products. This knowledge leads to more productive communication with our researchers & clients.”

Michael O’Malley, Director of Product Marketing, HyLighter

“I want to let you know how valuable, informative and enjoyable it was to attend the BioBasics session. It was exceptional and perhaps two of the best days I’ve ever invested in training. The content of the course was exactly what I had hoped it would be: comprehensive and exactly the right amount of detail in each section. The course and presentation material were excellent and the lab was great as it really brought to life the material. this was just a terrific overall program in every aspect and I’d highly recommend it.”

Claudio Ramirez, Consul, Consulate of Canada

“The Biotech Primer course provided me with a robust scientific understanding of the biotech industry and will greatly enhance my credibility with clients, ie: my ability to grasp their business models.”