

BioBriefing™: Biotech for the Non-Scientist

BioBriefing™: Biotech for the Non-Scientist is a one-day, fast-paced course focused on the science driving today's hottest biopharma innovations. Learn how basic biology is translated into novel vaccines and therapeutics that save lives. Taught by an industry expert who knows the technology, products, and companies.

Five takeaways:

1. Scientific basics needed to better understand the biopharma industry
2. Command of the essential terminology of the industry
3. Improved ability to communicate with scientists, colleagues and clients
4. Fluency in the fundamental pharmacology of novel therapies
5. Roadmap of the life science industry sectors

Course Agenda

Biotechnology Overview 9:00-10:15

Biotechnology defined
Life science industry sectors
Biotechnology goals
Cell structure and function
Proteins: critical to cellular function
Cellular communication: cell signaling
Cell signaling and cancer

Break 10:15-10:30

DNA & Proteins 10:30-11:30

DNA, chromosomes, and genes
Proteins
Mutations: the source of genetic variation
Genetic basis of disease
Cancer: a polygenic disease
Lab: DNA isolation and extraction

Immunology: Basis of Immunotherapies

11:30-12:30

Non-specific and specific immune response
Antibodies structure and function
Immunological memory
Vaccines and oncolytic vaccines

Lunch 12:30-1:30

Immunotherapies 1:30-2:30

Therapeutic antibodies
Bispecific antibodies
Antibody-drug conjugates
Immune system checkpoint therapies
Chimeric antigen receptor T-cell therapies (CAR-T)
Other CAR therapies

Break 2:30-2:45

Genomics: Big Data 2:45-4:00

Genomics defined
Full-genome sequencing
Cancer genomics
From big data to rare disease
Gene therapy overview
Genome editing (CRISPR/Cas9)

Q&A | Review 4:00-4:30