BioBriefing: Biotech for the Non-Scientist

This is a lively one-day course that provides participants the knowledge to better engage with industry leaders at BIO2020. BioBriefing explains the science driving the biotechnology industry. This course is ideal for anyone who works on the business side of a biopharma company or provides services to the biopharma industry and does not have a science background. Learn from an industry insider who knows the technology, products, and companies.

Five Takeaways

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

Agenda

How Industry Sectors Are Organized *9:00-9:30*
Biotechnology defined
Healthcare sectors: biopharma and medical device

How Biology Is the Basis of Biotechnology *9:30-10:20*
Goals of biotech
Cell types used in biotech
Cell structure and function
Industry application: receptors and drug targets
Cell signaling network
Industry applications**:** agonists and antagonists

Break *10:20-10:30*

How DNA and Proteins Are Biotech's Workhorses *10:30-11:15*
DNA structure and function
DNA codes for proteins
Lab: DNA isolation and extraction
Protein structure and function
Post-translational modifications
Industry applications**:** therapeutic monoclonal antibodies

How Disease Occurs in Your Body *11:15-12:00*
Mutation types and causes
Genetic basis of disease
Activity: genetic variation of taste
Pathogens
Bacterial infectious disease
Viral infectious disease

Lunch *12:00-12:45*

How Your Body Fights Disease *12:45-1:45*
The immune system
B-cells and antibodies
Epitopes
T-cells

Break *1:45-2:00*

How Biologics Fight Disease *2:00-2:50*
Compare small and large molecule drugs
Biologics
Monoclonal antibody characteristics
Monoclonal antibodies mechanisms of actions
- Trigger immune response
- Block signaling molecule
- Capture signaling molecule
- Capture pathogen

Antibody-drug conjugate
Bispecific antibody
Checkpoint inhibitors

Break *2:50-3:00*

How Biologics Are Made *3:00-3:45*
Biomanufacturing process overview
Cell banks
Upstream processing
Downstream processing
Formulation
Analytical testing final product

Ask Me/Tell Me *3:45-4:15*

Wrap-Up *4:15-4:30*

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