AUDIENCE:
This is an introductory course on antibacterial chemotherapy and resistance. It is designed for individuals with limited experience who may work in a clinical environment or in the diagnostic or pharmaceutical industries, but can also be beneficial for experienced individuals seeking a refresher course.

It begins with basic concepts of antibacterial therapy, pharmacodynamics, and susceptibility testing, and moves into more advanced concepts such as detailed descriptions of mechanisms of antibacterial activity of some drugs, mainly cell-wall active drugs, and of the development of resistance to them. Special emphasis is given to the challenge of accurate detection of resistance with lectures being complemented by an interactive phenotypic and molecular laboratory session.

TUITION: $800.00
Please pay in full by April 15, 2020 (spaces are limited)

Registration is not refundable, but may be transferred to another individual within the company. For more information, please contact Stacey Morrow (402) 280-3180 or StaceyMorrow@creighton.edu.

Payment must be in the form of sponsoring agent or company check. No credit cards can be accepted.

Click [https://www.campustravel.com/university/creighton/visit_hotels.htm](https://www.campustravel.com/university/creighton/visit_hotels.htm) for a list of nearby hotels.

Click [https://www.creighton.edu/maps/](https://www.creighton.edu/maps/) for a Creighton University map and directions to campus.
MAKE COMPANY CHECK PAYABLE TO: CREIGHTON UNIVERSITY (No Credit Cards Accepted)

MAIL TO: Dr. Nancy D. Hanson, Creighton University School of Medicine, Department of Medical Microbiology & Immunology, Center for Research in Anti-Infectives and Biotechnology, Criss II, Room 529, 2500 California Plaza, Omaha, NE 68178.

Name ____________________________________________ Position __________________________________________

Company __________________________________________ Phone ____________________ Fax __________________

Mailing Address _____________________________________________________________________________________

E-Mail Address ________________________________________________________________________________________

Please return this portion along with the registration fee of $800.00

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ANTIMICROBIAL AGENTS AND CHEMOTHERAPY
Criss Health Sciences Complex

Day Time Topic

Tuesday 8:30am - 11:30am Introductions
Drivers of Antibiotic Resistance
Porin and Efflux mediated resistance
Pharmacodynamics of Antibacterial Agents
Cell Wall Active Agents

11:30am - 12:30pm LUNCH

12:30pm - 5:00pm Protein Synthesis Inhibitors
Fluoroquinolones
Mobile Genetic Elements
Antimicrobial Susceptibility Testing and Antibiograms
MRSA and C. difficile Issues

Wednesday 8:30am - 11:30am β-lactamases—What you need to know
Regulation of CTX-M and KPC β-lactamases

11:30am - 12:30pm LUNCH

12:30pm - 5:00pm AmpC β-lactamases
_Pseudomonas aeruginosa_
Molecular Testing—Current and Future Applications

Thursday 8:30am - 12:00pm Laboratory Session

Course Director: Nancy Hanson, Ph.D.

Additional Faculty: Stephen Cavalieri, Ph.D.
Richard Goering, Ph.D.
Stacey Morrow, MS, MT(ASCP)