





NABT Baltimore Workshop Schedule

Join us for our free workshops at the Baltimore Marriott Waterfront Hotel, Grand Ballroom II

Friday, November 3 (all in Grand Ballroom II)

8:00 – 9:00 AM

PCR Amplified: Advanced Topics & Techniques

Learn about the versatile techniques of PCR (qPCR, ddPCR etc) and the real-world applications in life science research, clinical and molecular diagnostics like gene expression, disease outbreaks, mutation detection and more.

10:30 – 11:45 AM

Hands-On Chromosomal Gene Editing with the Out of the Blue CRISPR Kit

CRISPR's most relevant uses require more than just knockouts! In this hands-on workshop you'll use CRISPR-Cas9 to cut and repair an *E. coli* chromosomal gene while learning about essential experimental controls.

12:00 – 12:30 PM

Track Norovirus Spread Using Modeling and Gel Electrophoresis

Put your epidemiologist hat on and determine the transmission mode of a norovirus using molecular data, patient histories, and clues hidden in a restaurant.

2:00 – 3:15 PM

The Plight of the Bumblebee: Studying Bee Genetic Biodiversity using DNA Barcoding

Taxonomy in action: use visual cues and biotechnology techniques to sort bumblebees into separate species. Experience how PCR, sequencing, and bioinformatics help scientists distinguish bee species.

3:30 – 4:00 PM

Personalized medicine: Cell and Gene Therapy in Cancer treatments!

Learn about CAR-T cells and how immunotherapies are produced, how viral vectors deliver gene therapies and how physicians use them to treat inherited genetic disorders.

Special Event

Invited Speaker

Dr. James DeKloe

(3:30 – 4:00 pm at The Grand Ballroom II)

Jim is an awe-inspiring nationally recognized educator from Solano college at Vacaville, CA. His illustrious career includes being a fellow at Genentech and a Modern Maker at BioMADE. Bio-Rad is proud to support his talk on "Personalized medicine: Cell and Gene Therapy in Cancer treatments!"

NABT has chosen Jim DeKloe as the **Ron Mardigian Biotechnology Award** winner for 2023.

Come by and get inspired! Learn about the career opportunities available to students in this field.

Visit us at **bio-rad.com/NABT23** — Call toll free at 1-800-4BIO-RAD. Outside the U.S. contact your local sales office.