

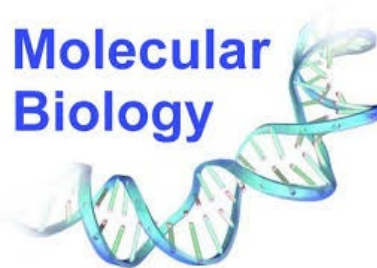
Instructors:

James Klenner, MSc, MPH, MPA, RBP(ABSA), CBSP(ABSA), Ball State University, Muncie, Indiana

Overview

Molecular Biology 101 is intended for those professionals that participate in protocol review, facilities planning, and other risk assessment activities but lack a basic understanding of molecular biology and techniques. Following this course, attendees will be able to do more than regurgitate facts and use the new understanding of the principles of molecular biology in various situations at their institution. This course will cover topics such as the chemistry of nucleic acids, DNA replication, RNA transcription, and protein translation, the Central Dogma of Biology, DNA cloning, transfection of prokaryotic and eukaryotic cells, restriction enzymes, and recombinant DNA lab methodologies (including PCR), DNA fingerprinting, sequencing, and detection protocols). While this course will not turn you into a molecular biologist, it will give you enough background information to understand the nature and manipulation of genetic material and hopefully unveil the mystery of deoxyribonucleic acid.

Molecular Biology




Objectives


- Explain the differences and chemistry of nucleic acids
- Define general molecular biology techniques
- Demonstrate an understanding of the principles of molecular biology used to develop recombinant DNA technology and to show how these technologies are used to study biological phenomena


 **Audience Level:** Basic


 **Suggested Background:** None


 **Who Should Attend:** All Safety Professionals, New Biosafety Professionals, Non-Scientists that review protocol

 **Course Logistics:** Course is two 3-hour sessions. Attendees will need to log on 15 minutes prior to the start time. To receive credit and a certificate, attendees must attend the session and complete or access all course modules. The course materials are for **registered participants only**.

 **Course Fees:** ***ABSA Member: \$400** **Non-Members: \$490**
* To receive the ABSA member rate, participants must be current ABSA members during the training year. Fees include course handouts, access to the ABSA International training site, and 6 hours of expert-led interactive instruction. Group Discount (all registrants from same organization): 10% off for 3-4 participants; 20% off for 5-9 participants; 30% off for 10+ participants. **To apply for the group discount for registration, please call the ABSA Office to register.**

 **Credits:** This course has been approved for **0.75 CM points** toward RBP/CBSP recertification. *ABSA International is approved as a provider of continuing education programs in clinical laboratory sciences by the ASCLS P.A.C.E.® Program. This course is approved for **6.0 P.A.C.E.® contact hours**. Course access links are unique and for individual use only. **Sharing is prohibited**. Duplicate logins or unregistered attendees will be removed from the webinar without a refund.

 **Questions:** Contact: Kari DeServi, MEd, Director of Education, ABSA Office, 866.425.1385 (toll free)
Email: education@absa.org

 **Register:** **By phone:** (866) 425-1385 or **Online:** www.absa.org
Confirmed, paid participants will be sent detailed information regarding the course within a few days prior to the course. Substitutions allowed with notice by 6/25/2026. There is a 15% processing fee for cancellations prior to 7/2/2026. No refunds after 7/2/2026.