

Quantitative Microbial Risk Assessment Interdisciplinary Instructional Institute

August 4 -14, 2017

University of Washington, Seattle, Washington

About the Program

The Quantitative Microbial Risk Assessment Interdisciplinary Instructional Institute (QMRA III) is a 10-day workshop designed for advanced graduate students, post-doctoral fellows and early career professionals to assimilate scientific data and implement computer programs towards building a risk assessment for assuring safety and health goals. Participants will gain hands-on experience with risk assessment software and work on realworld case studies. The third annual QMRA III will be held at University of Washington.









COURSE OBJECTIVES:

Obtain skills to perform microbial risk modeling through:

- + Attending lectures from top scientists in the QMRA field
- Engaging in specific hands-on exercises
- Collaborating within multidisciplinary teams to conduct a research case study under the mentorship of a program faculty member and teaching assistant.
- Using and contributing to the QMRAwiki (http://gmrawiki.canr.msu.edu/)

COURSE TOPICS:

- Statistics in risk assessment
- Probabilistic uncertainty analysis

RISK

- Use of genomics in QMRA
- Emerging pathogens and diseases of global and clinical significance
- Use of epidemiological data in QMRA
- Multiple media fate and transport models
- Environmental infectious disease transmission modeling
- Dose-response modeling
- Risk perception, communication and management And more...

Application period: January 15 - March 30, 2017 at: https://events.anr.msu.edu/QMRAIII2017/ Program Contacts: Dr. Jade Mitchell and Dr. Mark H. Weir at: QMRAIII@anr.msu.edu



We assume no prior computational experience on behalf of the participants. Therefore, tutorials on computer models and applications for risk assessment (i.e. R programming, Crystal Ball, MATLAB, etc.) will be included as part of the program.



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