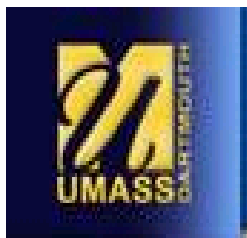


**University of Massachusetts Dartmouth, MA**  
**Recent Advances in Botulinum Research Techniques**  
**August 17-18, 2011**

**Wednesday, August 17, 2011**

- 08:00 - 08:45 - Registration
- 08:45 - 09:00 - **Session 1 Chairman - Dr. Kodumudi Venkateswaran, Radix Biosolutions**  
Inauguration of the Workshop by Professor Bal Ram Singh
- 9:00 - 09:45 - Lecture 1 - Koyel Ghosal, UMass Dartmouth, Cellular assays in botulinum research
- 09:45 - 10:30 - Lecture 2 - Dr. Robert Meltzer, Pathogenetix, Single-molecule DNA mapping for biothreat detection
- 10:30 - 10:50 - Coffee / Tea Break
- Session 2 Chairman – Dr. Shuowei Cai, UMASS**
- 10:50 - 11:35 - Lecture 3 - Dr. Martha Hale, USAMRIID, Animal imaging in botulinum research
- 11:35 - 12:00 - Lecture 4 - Dr. Kodumudi Venkateswaran, Radix Biosolutions, Multiplex detection of botulinum neurotoxins
- 12:00 - 12:25 - Safety Briefing - Mr. Paul Lindo, UMASS
- 12:25 - 13:45 - Lunch
- 13:45 – 18:00 Hours with 30 minute break at 3:30 to 4:00
- Demonstration 1 - Koyel Ghosal et al, UMass Dartmouth, Cellular assays using M17/SHSY5Y cell lines
- Demonstration 2 - Dr. Martha Hale, Animal Imaging using Li-Cor Pearl system



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**Thursday, August 18, 2011**

08:00 - 08:45 - Registration

**Session 3 - Chairmen : Dr. Dave Hodge, DHS; and**

**Dr. Andy Pickett, Toxin Science Ltd**

08:45 - 09:00 - Introduction to the workshop Day 2

09:00 - 09:45 - Lecture 5 Dr. Bing Li, Microbiotix, Inc., Molecular Modeling and Inhibitors Design

09:45 - 10:15 - Lecture 6 Dr. Larry Stankar, USDA, Monoclonal antibodies and reagents for botulinum research

10:15 - 11:00 Lecture 7 Dr. David Duffy, Quanterix Corp., Ultra sensitive Single molecule Array

11:00 - 11:20 - Coffee / Tea Break

11:20 - 12:30 - Panel Discussion

Dr. Dave Hodge, DHS

Dr. Martha Hale, USAMRIID

Dr. Andy Pickett, Toxin Science

Dr. David Duffy, Quanterix

Dr. Kodumudi Venkateswaran, Radix Biosolutions

others

12:30 - 13:30 - Lunch