



Ninth Annual Botulinum Research Symposium, 2015

Final Program

Wednesday, August 12, 2015

- 9-12 Noon DTRA Botulinum Consortium meeting – to be led by Michael Adler and Giora Feurestein (online) (pending approval)
- 1- 4 PM Arrival and check-in at hotels of general delegates
- 4:00-5:00 PM Registration and Welcome, **Wamsutta Club**, 427 County Street
New Bedford, MA
- 5:00 PM Social and dinner
- 7:00 PM Welcome to the evening program
- 7:05 PM Introduction to the establishment of Dr. B.R. DasGupta Memorial Lecture
- Session I Session Chair – Keith Foster, IPSEN, UK**
- 7:15 PM **Dr. B.R. DasGupta Memorial Lecture** – Dr. Michelle Popoff, Unité des bactéries anaérobies et Toxines, Institut Pasteur, France. Topic: *Passage of botulinum neurotoxin across the intestinal barrier and dissemination to the nervous system*
- 8:00 PM Q&A

Thursday, August 15, 2015, Wamsutta Club, First Floor Conference Room

8:00 AM Registration and Continental breakfast,

8:30 AM *Introduction*, Dr. Bal Ram Singh, Botulinum Research Center

Session II **Session Chair** – Michael Adler, US Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, MD

9:00 AM **Symposium Speech** – **Shashi Kant Sharma**, Divisions of Microbiology, Center for Food Safety and Applied Nutrition, Food and Drug Administration, College Park, MD, USA. Tentative Topic: ***Still Detecting Botulinum Toxins***

9:45 AM *Design of substrate peptides for improved detection of botulinum neurotoxins by Endopep-MS*, **John R. Barr¹**, Dongxia, Suzanne R. Kalb, Jakub Baudys, Kaitlin M. Hoyt, Centers for Disease Control and Prevention, Atlanta, GA, USA.

10:15 AM *Multiplex Point of Care Real Time PCR Device for Detection of Botulinum Neurotoxins*, **Neeraja Venkateswaran**, Sheila Diepold, Gary Long, Tom O'Brien, William M Nelson, Tetracore, Inc., Rockville, MD

10:45 AM **Coffee/Tea break**

Session III **Session Chair** – **Terry Bowlin**, Microbiotix, Worcester, MA

11:15 AM *Characterization of the proteolysis of the ha-70 protein in botulinum neurotoxin complexes*, **Suzanne R. Kalb**, Jakub Baudys, John R. Barr, Centers of Disease Control, Atlanta, GA.

11:45 Noon *TBA*, **Michael Adler et al.**, US Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground

12:15 PM **Group Photo**

12:30 PM **Travel to Institute of Advanced Sciences, Fall River Facility, by Bus**

1:00 PM Lunch

Session IV **Session Chair** – Shuwei Cai, Department of Chemistry and Biochemistry, UMass Dartmouth

1:45 PM **Poster session**, Institute of Advanced Sciences, Fall River Facility

- 3:15 PM Travel back to Wamsutta Club
- Session V Session Chair** – Dr. Ryan Ranallo, NIAID, National Institutes of Health
- 3:30 PM *Comparing and contrasting synapse models for BoNT mechanistic and therapeutic research*, **Patrick McNutt**, Megan Lyman and Phillip Beske, US Army Medical Research Institute of Chemical Defense
- 4:00 PM *Facilitation Of Neurotransmission In Bont/A-Paralyzed Nerve Terminals By 3,4-Diaminopyridine Does Not Act Through The Incorporation Of Cleaved Snap25 In Vesicle Release*, **Aaron Bradford**, Trisha M Russo, Elliot J Glotfelty, Kate M Hoffman, Phillip H Beske and PM McNutt, US Army Medical Research Institute of Chemical Defense
- 4:30 PM *Natural products as an Inhibitor for Botulinum Neurotoxin A*, **Kruti Patel**, Shuowei Cai, and Bal Ram Singh, Department of Chemistry and Biochemistry, University of Massachusetts Dartmouth; and Botulinum Research Center, Institute of Advanced Sciences, Dartmouth, MA.
- 5:00 PM *Botulinum and other biodefense programs at DHS*, **David Hodge**, Department of Homeland Security
- 5:15 PM **Break**

Thursday, August 13, 2015, Evening Program: Wamsutta Club

- Session VI Session Chair** – **Andy Pickett**, Toxin Science Ltd., Wrexham, UK
- 6:00 PM Social and the Game of BoNTingo©, Students and Staff of the Botulinum Center
- 6:30 PM Lab Concert – Koyel Ghosal, Gowri Chellappan, Anuradha Tata, Alessandra Geffner-Smith, others
- 7:15 PM Dinner
- 8:15 PM **Evening Dinner Presentation** – *Historical and Seminal Contributions of Dr. DasGupta to the Botulinum Neurotoxin Research*, Dr. Bal Ram Singh, Botulinum Research Center, Institute of Advanced Sciences, Dartmouth, MA
- 8:45 PM Comments and Q&A

Friday, August 14, 2015, Wamsutta Club, First Floor

8:00 AM – Breakfast

8:00 AM **BRC Board** of Advisors meeting

Session VII Session Chair – Patrick McNutt, US Army Medical Institute of Chemical Defense, Aberdeen Proving Ground, MD

9:00 AM *Botulinum Toxin detection assays*, **Kodumudi Venkateswaran**, OmniArray Biotechnology

9:00 AM *Microarray Analysis to Evaluate Differential Host Responses to Isolated Botulinum Neurotoxin and Botulinum Neurotoxin Associated with Associated Proteins*, **Lei Wang**¹, Yi Sun¹, Paul Lindo¹, and Bal Ram Singh^{1,2}, ¹Prime Bio Inc., ²Botulinum Research Center, Institute of Advanced Sciences, Dartmouth, MA

9:30 AM *Unexpected Discoveries on Botulinum Neurotoxins and Their Uses*, **Andy Pickett**, Toxin Science Ltd., Wrexham, UK

10:00 AM **Coffee/Tea break**

Session VIII Session Chair – John Barr, CDC, Atlanta

10:30 AM *Prospects of funding for botulinum toxin research*, **Ryan Ranallo**, NIAID, NIH

10:45 AM **Panel Discussion: Botulinum Research – Advancement of Biomedical Use and Homeland Security**

Klaus Fink, MERZ, Germany
Venkat Kodumudi, OmniArray Biotechnology, Inc.
Kieth Foster, IPSEN, UK
David Hodge, DHS
Patrick McNutt, USAMRICD
John Barr, CDC
Shuowei Cai, UMass Dartmouth

12:00 Noon Symposium conclusion, lunch, networking, departure