Bot Winum Research Center Continuation of a great tradition for exchange of ideas and results on botulinum neurotoxins in an informal and collaborative setting

# Mechanism to Medicine 18th Annual Botulinum Research Symposium

# 2024

Institute of Advanced Sciences



## 18th Annual Botulinum Research Symposium, 2024

### Program

#### Wednesday, August 14, 2024

1-4 PM Arrival and check-in at hotels of general delegates
4:00 PM Registration and Welcome, Wamsutta Club, 427 County Street New Bedford, MA
6:00 PM Social and dinner
Welcome to the evening program Entertainment – Magic show, Professor Timothy Su, Department of Chemistry and Biochemistry, University of Massachusetts Dartmouth Lab Concert – John Bogdan

#### Thursday, August 15, 2024, Wamsutta Club, First Floor Conference Room

- 8:00 AM Registration and Continental breakfast
- 9:00 AM *Introduction*, **Bal Ram Singh**, Botulinum Research Center
- Session I Session Chair Dirk Dressler, Medizinische Hochschule Hannover, Germany

#### 9:30 AM Inaugural Symposium Speech

Botulinum neurotoxin type A hijacks polysialoganglioside-Synaptotamin1-SV2 surface nanocluster to sneak in synaptic vesicles

- Frederic Meunier, Queensland Brain Institute and School of Biomedical Sciences, The University of Queensland, St Lucia campus, QLD, 4072, Australia
- 10:15 AM Q&A
- 10:30 AM Coffee/Tea break
- Session II Session Chair Karen Bunting, IPSEN Bioinnovations Ltd, UK
- 11:00 AM *Evaluating combination treatment strategies for BoNT/A poisoning*, **Patrick McNutt**, Wake Forest University School of Medicine, Winston-Salem, NC, USA
- 11:30 AM *Evaluation of the Mass Spectroscopy Assay for Botulinum Toxins,* **Eric Johnson**, Professor (Retired), Madison, WI, USA
- 12:00 PM Intermission
- 12:15 PM Lunch Banquet
- Session III Session Chair Klaus Fink, MERZ, Germany
- 1:00 PM Banquet Lifetime Achievement Award Speech

Lessons learned and friendships made engineering botulinum antibodies, **James Marks**, Professor Emeritus, Department of Anesthesiology, University of California, San Francisco, CA, USA

- 2:00 PM Group Photo
- 2:15 PM Break, Social and free mingling, and meetings
- 3:00 PM Whaling Museum and Area Walking Tour
- 6:00 PM Informal dinner, Wamsutta Club Sharing of **Online experiences**
- 7:00 PM **Dinner Speech Botulinum therapy for macular disease, Gary Borodic**, Harvard Medical School, USA

#### Friday, August 16, Wamsutta Club, First Floor

- 7:30 AM BRC Board of Advisors meeting
- 8:00 AM Breakfast
- Session IV Session Chair Dr. Michael Adler, US Army Medical Research Institute of Chemical Defense
- 8:30 AM **Dr. B.R. DasGupta Memorial Lecture** Intracellular trafficking of Botulinum neurotoxin Light Chain/A1 to cleave SNAP-25, **Joe Barbieri**, Medical College of Wisconsin, Milwaukee, WI
- 9:15 AM Q/A
- 9:30 AM *A novel platform for therapeutic utility of Clostridial proteins,* **Raj Kumar,** Botulinum Research Center, Institute of Advanced Sciences, Dartmouth, Massachusetts, USA
- 10:00 AM Coffee/Tea break
- Session V Session Chair Shuowai Cai, University of Massachusetts Dartmouth
- 10:15 AM *Immunogenicity of botulinum toxin drugs: what do we know?*, **Dirk Dressler**, Medizinische Hochschule Hannover, Germany
- 10:45 AM Growing product development with government funding, John Bogdan, Valaria Technical Consultants, LLC, Westminster, MD, USA
- 11:15 AM From Novel to Known: Exploring the Landscape of Botulinum Toxin Homologs, **Travis Wentz**, Wake Forest Institute of Regenerative Medicine, Salem, NC, USA
- 11:45 AM BoNT/DC Blocks Melanin Production, **Birgitte Sondergaard**, Abbvie/Allergan, USA
- 12:15 PM Lunch

- Session VI Session Chair John Bogdan, Valaria Technical Consultants, LLC, Westminster, MD, USA
- 1:15 PM **Panel Discussion:** *Medical Avenues of BoNT Therapeutics* Karen Bunting, **IPSEN** Bioinnovations Ltd, UK Klaus Fink, **MERZ**, Germany Birgitte Sondergaard, **Abbvie/Allergan**, **USA** Frederic Meunier, **University of Queensland**
- 2:15 PM Symposium conclusion, lunch, networking, departure

