



Institute of
Advanced
Sciences

Botulinum
Research
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Symposium Coordinators:

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Raj Kumar, Institute of
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Third Announcement

15th Annual Botulinum Research Symposium, August 18-19, 2021

The 15th annual symposium organized by the Botulinum Research Center at the Institute of Advanced Sciences, Dartmouth, MA.

Theme: Redesigned Botulinum Neurotoxins

Tentative Program

Wednesday, August 18, 2021 (Time, US Eastern Daylight Saving Time)

Session I -Inaugural Session

9:00 – 9:30 AM	Welcome and Introductory Remarks – <u>Bal Ram Singh</u> , BRC, INADS
9:30 – 10:15 AM	A chimeric toxin-based delivery platform for post-exposure treatment of botulism- <u>Min Dong</u> , Harvard Medical School
10:15 – 10:30 AM	Q&A
10:30 – 11:00 AM	Redesigned botulinum neurotoxin endopeptidase and its potential use/misuse – <u>Travis Blum</u> , Harvard University
11:00 – 11:15 AM	Break

Session II

11:15 – 11:45 AM	Local injection of an anti-cholinesterase restores muscle function post BoNT-A impairment – <u>Sameer B. Shah</u> , DeINova, Inc., USA
11:45 – 12:15 AM	Treatment of botulism with 3,4-diaminopyridine – <u>Michael Adler</u> , US Army Research Institute of Chemical Defense, Aberdeen Proving Ground, MD, USA
12:15 – 12:45 PM	Inhibition of BoNT enzymatic activity with sodium phosphate – <u>Suzy Kalb</u> , CDC, Atlanta, USA
12:45 – 1:15 PM	Lunch – cum – Poster breakout session

Session III

1:15 – 2:30 PM

Panel Discussion - Risk and Rewards of Redesigned Botulinum Neurotoxins – Andy Pickett,
Moderator

Klaus Fink, Merz, Germany
Michael Adler, USARICD, USA
Min Dong, Harvard Medical School
Shuowei Cai, UMass Dartmouth
David Hodge, Former Program Officer, Homeland Security

Thursday, August 19, 2021

Session IV

9:00 – 9:10 AM

Introduction to the BR DasGupta Memorial Lecture

9:10 – 9:55 AM

Making of IncobotulinumtoxinA (Xeomin™), Dr. Jurgen Frevert,
Merz Pharma, Germany

9:55 – 10:10 AM

Q&A

Session V

10:10 – 10:40 AM

Further Research Progress on Novel medical applications of botulinum neurotoxins – longevity and macular disease, Gary Borodic, Harvard Medical School, Boston, USA

10:40 – 11:10 AM

Mechanism of therapeutic Action of Isolated and Complete BoNT, Ghuncha Ambrin, UMass Dartmouth, MA, and Univ of North Carolina Charlotte, USA

11:10 – 11:25 AM

Break

Session VI

11:25 AM – 12:25 PM

Lifetime Achievement Award - Speeches

Session VII

12:25 – 12:55 PM

Biosimilar Botulinum Neurotoxin Product– Enan Guan, Biologicsa & BoNT Consulting, Washington DC, USA

12:55 – 1:25 PM

Detection challenges and solutions of botulinum neurotoxins – Markus Kalkum, Beckman Research Institute, USA

1:25 – 1:55 PM

Conformational Dynamics of Botulinum Toxin and its implication on evolution– Raj Kumar, Institute of Advanced Sciences, Dartmouth, USA

1:55 – 2:25 PM

Issues with Redesigned Botulinum Neurotoxins, Andy Pickett, Toxin Biosciences, UK, and Botulinum Research Center, INADS, Dartmouth, MA

2:25 – 2:40 PM

Closing

Zoom Conference registration - Join Zoom Meeting

<https://us02web.zoom.us/j/84052256405?pwd=NfZBMzlrRXk3SVhYRFIudVYyRi96UT09>

Meeting ID: 840 5225 6405
Passcode: 096956