

Institute of Advanced Sciences

Botulinum Research Center

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## Symposium Coordinators:

**Shuowei Cai**, University of Massachusetts Dartmouth

Raj Kumar, Institute of Advanced Sciences

## Fifth Announcement

# 15<sup>th</sup> Annual Botulinum Research Symposium, August 18-19, 2021

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

**Theme:** Redesigned Botulinum Neurotoxins

### **Program**

11:45 - 12:15 PM

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

Session I -Inaugural Se	Chair: Michael Adler, US Army Research Institute of Chemical Defense
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- Min Dong, Harvard Medical School
10:15 – 10:30 AM	Q&A
10:30 – 10:45 AM	Break
Session II	Chair: John Bogdan, Senior Consultant, Joint Project Executive Office, CBRN, DoD
10:45 – 11:15 AM	Local injection of an anti-cholinesterase restores muscle function post BoNT-A impairment – Sameer B. Shah, DelNova, Inc., USA
11:15 – 11:45 AM	<b>Treatment of botulism with 3,4-diaminopyridine – Michael Adler,</b> US Army Research Institute of Chemical Defense, Aberdeen Proving Ground, MD, USA

	<u>Suzy Kalb.</u> CDC, Atlanta, USA
12:15 – 12:45 PM	Lunch – cum – Poster breakout session
Session III	Chair: Brenda Wilson, Univ of Illinois
12:45 – 1:15 PM	Redesigned botulinum neurotoxin endopeptidase and its potential use/misuse – Travis Blum, Harvard University

Inhibition of BoNT enzymatic activity with sodium phosphate -

1:15 - 2:30 PM

Panel Discussion - Risk and Rewards of Redesigned Botulinum Neurotoxins - Shuowei Cai, Moderator

> Suzy Kalb, CDC, Atlanta, USA Klaus Fink, Merz, Germany

Michael Adler, USARICD, USA Min Dong, Harvard Medical School, Boston

David Hodge, Former Program Officer, Homeland Security

#### Thursday, August 19, 2021

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Session IV	Chair: Klaus Fink, Merz Pharma
9:00 – 9:10 AM	Introduction to the BR DasGupta Memorial Lecture  – Bal Ram Singh and V. Sathyamoorthy
9:10 – 9:55 AM	Making of IncobotulinumtoxinA (Xeomin <sup>™</sup> ), <u>Dr. Jurgen Frevert</u> , Merz Pharma, Germany
9:55 – 10:10 AM	Q&A
Session V	Chair: Terry Bowlin, Microbiotix, Worcester, USA
10:10 – 10:40 AM	Further Research Progress on Novel medical applications of botulinum neurotoxins – longevity and macular disease, <u>Gary Borodic</u> , Harvard Medical School, Boston, USA
10:40 – 11:10 AM	Gliosis mediated Action of Isolated and Complete BoNT/A, Ghuncha Ambrin, UMass Dartmouth, MA, and Univ of North Carolina Charlotte, USA
11:10 – 11:25 AM	Break
Session VI	Chair: Andy Pickett, Toxin Bioscience
11:25 AM –12:25 PM	Lifetime Achievement Award - Speeches
Session VII	Chair: John Barr, CDC, Atlanta, USA
12:25 – 12:55 PM	<b>Biosimilar Botulinum Neurotoxin Product</b> – <u>Enan Guan</u> , <b>Biologicsa</b> & BoNT Consulting, Washington DC, USA
12:55 – 1:25 PM	Antibody-free Detection and Quantitation of Botulinum Neurotoxins by Nano LC with Targeted Multistage Mass Spectrometry- <u>Markus Kalkum</u> , 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

## **Zoom Conference registration** - Join Zoom Meeting

https://us02web.zoom.us/j/8405225 6405?pwd=NFZBMzIrRXk3SVhY RFIUdVYyRi96UT09

Meeting ID: 840 5225 6405

Passcode: 096956

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