

THE NATIONAL ACADEMY OF SCIENCES, INDIA

(The Oldest Science Academy of India)

Organizes

95th Annual Session and Symposium on

Healthy Brain, Mind and Cognition: From Computers to Clinics

Hosted by

Indian Institute of Technology Guwahati (IITG), Assam

<https://event.iitg.ac.in/nasi95/>



-- Programme --

Day 1: Monday, December 08th, 2025

- ✚ **Registration** (09:00– 10:00): Venue- Conference Centre Foyer
- ✚ **Coordinators:** Dr. Shirisha Nagotu, Dr. Kusum K. Singh, Dr. Sweta Tiwari, IITG

✚ Children's Science Meet (10:00 – 11:30) Venue - Auditorium	
Chairpersons	Prof. S.R. Joshi, (NEHU, Shillong) Prof. Anupam Saikia, (IITG)
Speaker-1	Prof. Pannalal Goswami Science Communicator & Award-winning Chemistry Teacher- Assam
Speaker-2	Mr. Rahul S. Chatterjee Science Communicator & National Award-winning Physics Teacher- Shillong

Inaugural Session (11:30–12:30) Venue – Auditorium

Lunch (12:30 -14:00) Venue- Lake View Lawn

Symposium Talks: *Healthy Brain, Mind and Cognition: From Computers to Clinics*

✚ Session 01 (14:00–15:40): Symposium Talks Venue: Conference Hall 01	
Chairperson Co-Chair	Prof. Balram Bhargava, Former Secretary ICMR; Past President, NASI Prof. Sanjay Behari, Director, SCTIMST, Trivandrum
(Co-Conveners) 14:00 – 14:10 (05 min each)	Genesis of the Symposium Prof. Jayesh R. Bellare, General Secretary, NASI Prof. Venkatasubramanian G, NIMHANS, Bengaluru
Speaker-1 14:10 – 14:40	Prof. Vatsala Thirumalai, NCBS, TIFR, Bengaluru Title: Generating and Using Predictions of the World: A Role for the Cerebellum
Speaker-2 14:40 – 15:10	Prof. Arjun Ramakrishnan, BSBE Department, IIT Kanpur Title: Neuroengineering for Mental Health: Understanding the Mechanisms Underlying Suboptimal Decision Making in Anxious Individuals.
Speaker-3 15:10 – 15:40	Prof. Vibin Ramakrishnan, BSBE Department, IITG Title: Unconventional Therapeutic Strategies for Slowing Alzheimer's Progression

Tea Break (15:40 – 16:00): Venue- Foyer Conference Centre

Session 02 (16:00 – 17:00) Symposium Talks, Venue: Conference Hall 01	
Chairperson Co-Chair	Prof. Ashok Puranik, Director, AIIMS, Guwahati Dr. Pratima Murthy, Director, NIMHANS, Bengaluru
Speaker-1 16:00 – 16:30	Prof. Neelam Sinha, Centre for Brain Research, IISc, Bangalore Title: Generative AI in Neurodegeneration Studies
Speaker-2 16:30 – 17:00	Dr. Shubhadeep Bhattacharjee, Electrical Eng. Dept., IIT Hyderabad Title: The Deep Trouble with Deep Neural Networks (DNNs): A Hardware Perspective

Session 03 (17:15-18:00) Foundation Day Lecture Venue: Auditorium	
Chair	Prof. Ashok Misra, Convener & Past President-NASI
Speaker	Mr. Kris Gopalakrishnan, Co-founder, Infosys Title: Role of Academia in Creating Viksit Bharat

Cultural Night (18:30 – 20:00) Venue- Auditorium

Coordinator: Dr. Meena Khwairakpam, IITG
Sattriya Dance (Performer: Dr. Anwesa Mahanta and Team)

Dinner (20:00 – 21:30) – Venue: Lake View Lawn

Day 02: Tuesday, December 09th, 2025

Session 04 (09:00 – 10:30) Symposium Talks Venue: Conference Hall 01	
Chairperson Co-Chair	Prof. Jayesh R. Bellare, General Secretary, NASI Prof. Ashis K Mukherjee, Director - IASST, Guwahati
Speaker -1 09:00 – 09:30	Dr. Sridharan Devarajan, Center for Neuroscience, IISc Bangalore Title: Computational Connectomics: Discovering Brain Network Bases of Health and Disease
Speaker-2 09:30 – 10:00	Prof. Venkatasubramanian G, NIMHANS, Bengaluru Title: Network Psychiatry: Translational Implications
Speaker-3 10:00 – 10:30	Dr. Nivethida T, BSBE Department, IIT Bombay Title: Redefining Targets in Neuromodulation: From Regions to Networks

Poster Session 01 (10:30 – 11:30): Venue-Foyer, Conference Centre

Chair/Coordinator (Sectional Presidents)

- Physical Sciences: Prof. Annapurni Subramaniam, Director, Indian Institute of Astrophysics, Bengaluru
- Biological Sciences: Prof. Sanjeev Misra, Vice-Chancellor, Atal Bihari Vajpayee Medical University, Lucknow

Tea Break (10:30 – 11:30) Venue -Foyer, Conference Centre

Session 05 (11:30 – 13:00) Symposium Talks		<i>Venue: Conference Hall 01</i>
Chairperson Co-Chair	Prof. Rama Shanker Verma, Director, MNNIT Allahabad Prof. Krishanu Ray, Director, NBRC, Manesar	
Speaker -1 11:30 – 12:00	Prof. Arun S P, Centre for Neuroscience, IISc, Bangalore Title: Neural Basis of Real-world Vision	
Speaker -2 12:00 – 12:30	Prof. Thomas Gregor Issac, Centre for Brain Research, IISc. Bangalore Title: Understanding Aging Brain and Predementia Syndromes	
Speaker-3 12:30 – 13:00	Dr. Palash Ghosh, Mathematics, IIT Guwahati Title: Protecting Privacy in the Digital Journey: Differential Privacy Solutions for Sensitive Binary Data from Humans to Computers.	

Lunch (13:00 – 14:00): Venue- Lake View Lawn

Session 06 (14:00 – 15:00) Symposium Talks		<i>Venue: Conference Hall 01</i>
Chairperson Co-Chair	Prof. Amit P Sharma, Group Leader, ICGEB, New Delhi Prof. Ishan Kumar Patro, Former Dean, Jiwaji University, Gwalior	
Speaker-1 14:00 – 14:30	Dr. Nikunj Arunkumar Bhagat, Electrical Eng. Dept., IIT Kanpur Title: Advancing Neuro-rehabilitation: The Role of Brain-Computer Interfaces	
Speaker -2 14:30 – 15:00	Prof. Arpan Banerjee, National Brain Research Centre, Manesar Title: Understanding the Neural Dynamics of Affective Flexibility from Naturalistic Stimuli: A Key to Quantitatively Evaluate Well-being	

Poster Session 02 (15:00 – 16:00) *Venue-Foyer, Conference Centre*

Chair/Coordinator (Sectional Presidents)

Tea Break (15:00 – 16:00): Venue- Foyer, Conference Centre

Session 07 (16:00 – 17:00) Symposium Talks		<i>Venue: Conference Hall 01</i>
Chairperson Co-Chair	Prof. Smita Mahale, Emeritus Scientist, ICMR- NIRRH, Mumbai, India Prof. K.S. Rangappa, Former Vice-Chancellor, University of Mysore	
Speaker-1 16:00 – 16:30	Mr. Krishna Veer Singh, TMC, Mumbai Title: Healthy Minds, Smarter Clinics: Using AI to Empower Therapists and Scale Child & Adolescent Mental Health	
Speaker-2 16:30 – 17:00	Dr. Rimjhim Agrawal, Co-Founder & CTO, Brain Sight AI Pvt Ltd Title: Advances in AI-powered Neurotechnology: Translation in Clinical Applications	

Session 08 (17:00 –17:30) Plenary Talk <i>Venue- Conference Hall 01</i>	
Chair Co-Chair	Prof. Vinod K Singh, President, NASI Dr. Pratima Murthy, Director, NIMHANS, Bengaluru
Speaker	Dr. Swati Piramal, Vice Chairperson, Piramal Enterprises Limited Title: The Future of Health

Session 09 (19:00 –20:00) Plenary Talk <i>Venue- Conference Hall 01</i>	
Chair Co-Chair	Prof. Venkatasubramanian G, Co-convener, NIMHANS, Bengaluru Prof. Jayesh R Bellare, Co-convener & General Secretary, NASI
Speaker	Prof. Mriganka Sur, Newton Professor of Neuroscience and Director of the Simons Center for the Social Brain at MIT, Cambridge, Massachusetts US Title: Neuroscience and Next Generation AI

Dinner (20:00 – 21:30) Venue- Lake View Lawn

Day 03 Wednesday December 10th, 2025

Scientific Sessions (9:00 – 10:45) <i>Venue: Conference Hall</i>	
Sectional President's Address	
Chairpersons	Prof. Latha Rangan, Organizing Secretary, IIT Guwahati Prof. Daya Shankar Pandey, General Secretary, NASI
Sectional President (Physical Sciences)	Prof. Annapurni Subramaniam, Director, Indian Institute of Astrophysics, Bengaluru Title: Astronomy from Ground and Space
Sectional President (Biological Sciences)	Prof. Sanjeev Misra, Vice-Chancellor, Atal Bihari Vajpayee Medical University, Lucknow Title: Nurturing Innovations in Healthcare
Session 10-a Physical Sciences – Conference Hall 01	
Chairperson Co-Chair	Prof. Annapurni Subramaniam, Director, IIA, Bengaluru Prof. Ranjan K Mallik, IIT Delhi
Speaker-1	Prof. Tanusri Saha Dasgupta, Director, SNBNCBS Kolkata Title: Design and Understanding of Materials Physics: A Machine-learning Approach
Speaker-2	Prof. Dibyendu Nandi, CESSI, IISER Kolkata Title: Living with Stars: Understanding the Sun's Influence on Planet Earth
Session 10-b Biological Sciences – Conference Hall 02	
Chairperson Co-Chair	Prof. Sanjeev Misra, Vice-Chancellor, ABV Medical University, Lucknow Prof. Ashok Puranik, Director, AIIMS, Guwahati
Speaker-1	Prof. Praveen Sharma, AIIMS Jodhpur Title: Clinical and Molecular Insights into Lead Toxicity
Speaker-2	Dr. Shirisha Nagotu, BSBE Department, IIT Guwahati Title: Parkinson's Disease: Novel Insights into the Cellular Alterations using a Yeast Model

Tea Break (10:45 – 11:00) *Venue- Foyer, Conference Centre*

Session 11 & 12 11:00 – 12:30 – Young Investigator Talks (Oral Presentations)	
Physical Sciences <i>Venue:</i> Conference Hall 01 Chairpersons/Evaluator(s) – Prof. Annapurni Subramaniam, Director, IIA, Bengaluru Prof. Ranjan K Mallik, IIT Delhi	
Sessions 11-a	Talk 1: Ajit Kumar Maddheshiya, University of Allahabad, UP Talk 2: B.K. Tiwari, University of Amarkantak, MP Talk 3: Jyoti Prasad Deka, Assam Engineering College, Assam
Sessions 12-a	Talk 4: Manoj Kumar Gupta, CSIR-AMPRI, MP Talk 5: Ram Prakash Sharma, NIT Arunachal Pradesh
Biological Sciences <i>Venue:</i> Conference Hall 02 Chairpersons/Evaluator(s) – Prof. Sanjeev Misra, VC, ABV Medical University, Lucknow Prof. Ashok Puranik, Director, AIIMS, Guwahati	
Sessions 11-b	Talk 1: Debabrata Dash, Harisingh Gour Vishwavidyalaya, MP Talk 2: Lekhan Lodhi, Gyanveer University, MP Talk 3: Pankaj Srivastava, University of Allahabad, UP
Sessions 12-b	Talk 4: Tapan K. Chaudhuri, IIT Delhi Talk 5: Tapas C Nag, AIIMS, New Delhi Talk 6: Umesh Kumar, University of Allahabad, UP

Discussion, Recommendations and Valedictory Session (12:30 – 14:00)

Chairpersons: Prof. Vinod K. Singh and Prof. Ashok Misra

Venue- Conference Hall 01

- Group Photo
- Lunch and Departure

Lunch (14:00 onwards) Venue- Lake View Lawn

Miscellaneous Calendar-Based Activities/Meetings

- ✚ **NASI Council Meeting** (Only for the Council Members of NASI)
December 09th, 2025 at 15:00 – 16:00
Venue- Board Room, Admin Building
- ✚ **Fellows Meeting** (Induction of Newly Elected Fellows)
December 09th, 2025 at 17:30 – 18:30
Venue: Conference Hall 01
- ✚ **Annual General Body Meeting (AGM)** Only Fellows and Members of NASI
December 09th, 2025 at 18:30 – 19:00
Venue: Conference Hall 01