



# Neurosciences Newsletter

House Magazine of

# Indian Academy of Neurosciences

(Registered Under Societies Registration Act XXI 1860 Regn. No. 79106)

## Message from the President



**Dr (Ms) Shashi Bala Singh**  
President

On behalf of the Board of the Indian Academy of Neurosciences, it is our pleasure to invite you to join us for the virtual XXXVIII Indian Academy of Neuroscience conference to be held from October 4 – 7, 2020.

The IAN will bring together neuroscience professionals working in neuroscience, neuropharmacology, neurology, neurosurgery, physical medicine and rehabilitation, and physical and occupational therapy to discuss the latest developments in the field of neuroscience research.

After lot of deliberations, the IAN 2020 Organizing Committee has decided to hold Virtual Conference. Our priority is the health and safety of our participants, as well as the patients and communities they serve. The Congress will commence by Plenary Sessions, Symposia, Invited Talks, Young Scientist Colloquia, Poster Sessions, Panel Discussion, Post-Satellite Symposia. Oral presentations and E-posters will be presented on our virtual platform.

Our idea is to offer an opportunity for researchers and innovators by creating a virtual conference that will be rewarding for both presenters and attendees. It is to all our benefit to continue sharing our research and contributing to the progress in neuroscience.

Although, we will not meet together in India this year, I am proud to see the IAN community come together virtually to achieve our mission.

Once again, stay safe and healthy, and we look forward to gathering virtually at IAN 2020.

July 10, 2020

**Shashi B. Singh**



**Dr Vinay K. Khanna**  
Secretary HQ



**Dr Pankaj Seth**  
General Secretary

July 10, 2020.

The year 2020 has been quite divergent with the outbreak of the novel corona virus that impacted the populations around the world. The members of Indian Academy of Neurosciences are engaged in cutting edge research even in the unprecedented crisis and have continued to earn laurels for the academy with their research accomplishments. In addition to their contribution to neuroscience research, several members of IAN came forward to help the government with enhancing the capabilities of RT-PCR tests for detecting SARS-CoV-2 in COVID-19 suspects and are continuing to make significant societal contribution during the crisis. Furthermore, as few reports of presentation of neurological symptoms in COVID-19 patients surfaced in several countries including India, rising to the occasion, the members of IAN swung into action and have started research efforts to investigate the link of SARS-CoV-2 and brain. Several reviews have already been published strengthening the need to understand how SARS-CoV-2 can affect human brain. We do hope for valuable research in this direction by basic and clinical neuroscientists in India to help understand the cause of neurological symptoms in COVID19 patients and also for better management of such cases.

The academy has been engaged in promotion of various neuroscience activities, including the organization of successful annual meeting of Indian Academy of Neurosciences at the All India Institute of Medical Sciences, New Delhi from November 19 - 21, 2019. To augment the knowledge dissemination of neuroscience research findings of various researchers around the globe, the academy has entered into an agreement to co-publish its official journal, the Annals of Neurosciences with a leading global publisher SAGE. This has resulted in greater visibility of the IAN journal. There has been active engagement with public through activities of the local chapters of IAN. Our partnership with Japanese Neuroscience Society (JNS) grew stronger and as in previous years, this year also IAN nominated four young neuroscientists for participation in annual meeting of the JNS.

Every year, the neuroscience community eagerly looks forward for the largest gathering of neuroscientists in India at its annual meetings. However, there are certain uncertainties this year due to the COVID crisis. Keeping in mind the safety of our members and speakers, the executive committee of the academy has taken a timely decision to hold the XXXVIII annual conference of IAN as an E-conference from October 4 - 7, 2020. The conference is being organized by Dr (Ms) Anita Jagota, University of Hyderabad, Hyderabad and Dr (Ms) Shashi Bala Singh, National Institute of Pharmaceutical Education and Research, Hyderabad. More details about the meeting will be available at the conference website and IAN website. The organizers are working hard to include plenary talks, award lectures and presentations by young researchers like previous years during this E-conference. Further, we look forward to your active participation alongwith your colleagues during the meeting.

**Vinay K Khanna**

**Pankaj Seth**

## BK Bachhawat Memorial Lifetime Achievement Award – 2019



**Dr KP Mohanakumar**

Director

Inter University Centre for Biomedical Research & Super Speciality Hospital  
Rubber Board P.O., Thalappady  
Kottayam - 686 009, India

**Title of Oration –**

Spatiotemporal neurochemical basis of Parkinsonian tremor

## KT Shetty Memorial Oration – 2019



**Dr Aditya Murthy**

Professor & Chairperson

Centre For Neuroscience

Old TIFR Building

Indian Institute of Science

Bengaluru - 560 012, India

**Title of Oration –**

Neural Control of sequential movements

## Fellows – 2019



**Dr Rajnikant Mishra**

Professor

Department of Zoology, Institute of Science

Banaras Hindu University

Varanasi - 221 005, Uttar Pradesh, India

Email: rmishraa@bhu.ac.in; rmishraa@yahoo.com



**Dr Subodh Kumar Jain**

Professor

Department of Biotechnology

Dr. Harisingh Gour (Central) University

Sagar - 470 003, Madhya Pradesh, India

Email: subjain@gmail.com



## Travel Fellowship - 2019

### Lalita and Ravindra Nath Travel Fellowships

1. **Bidisha Bhaduri**, National Institute of Mental Health & Neurosciences, Bengaluru, India
2. **Pallabi Bhattacharyya**, CSIR- Indian Institute of Chemical Biology, Kolkata, India
3. **Ojal D'Cunha**, Sophia Collage, Mumbai, India

### IAN Travel Fellowships

1. **Tiyasha Sarkar**, Jiwaji University, Gwalior, India
2. **Avni Rao**, Sophia College, Mumbai, India
3. **R. Sasibhushana**, National Institute of Mental Health & Neurosciences, Bengaluru, India
4. **Aishwarya Raj**, National Institute of Mental Health & Neurosciences, Bengaluru, India
5. **K. Mrudula**, National Institute of Mental Health & Neurosciences, Bengaluru, India

### IAN - Sfn Bangalore Chapter

**Jharana Das**, School of Life Sciences, Jawaharlal Nehru University, New Delhi, India  
*Fisetin Exerts Antiepileptic Effect Via Suppressing The Sodium Channel Subunits Levels In Post-Traumatic Epilepsy*

**Sonal Tripathi**, Department of Zoology, University of Allahabad, Allahabad, India  
*Paraneuronal Ne System In Barilius Bendelisis*

## Awardees - 2019

### Tulsabai Somani Educational Trust Award

**Rahul Gaurav**, Brain and Spine Institute - ICM, Center for NeuroImaging Research - CENIR, Paris, France  
*Changes In Neuromelanin-Sensitive MRI Signal In Parkinsons Disease: A Longitudinal Study Of Progression Marker*

### Dr DM Kar Prize

**Subhadeep Dutta Gupta**, Department of Neurophysiology, National Institute of Mental Health and Neuro Sciences, Hosur Road, Bengaluru, Karnataka, India.  
*Short Photoperiod Ameliorates Ventral Subicular Lesion-Induced Spatial Learning And Memory Deficits By Restoring The Hippocampal Neurogenesis In Adult Wistar Rats*

### Jyotsnamoyee Raghunath Bhattacharya Prize

**Sudeshna Das**, Defence Institute of Physiology and Allied Sciences (DIPAS), Defence Research and Development Organisation (DRDO), Lucknow Road, Timarpur, Delhi, India  
*CXCR7: A key neuroprotective molecule against alarmin HMGB1 mediated CNS pathophysiology and subsequent memory impairment*

### SS Parmar Research Foundation (USA) Prize

**Shubhi Saini**, Department of Anatomy, All India Institute of Medical Sciences, New Delhi, India  
*Development of Human Cochlear Nuclei - A Stereological Study*

**Syed Mujtaba**, Jiwaji University, Gwalior, India  
*Perinatal Multi-Stress Alters Glial Cell Turnover and Impairs Neurobehavioral Development In Wistar Rats*

### Suttee Nag Prize

**Vadanya Shrivastava**, Department of Biochemistry, All India Institute of Medical Sciences, New Delhi, India  
*Evaluating Glutamate Transport After Hypoxic Injury In Astrocytes Derived From Human Fetal Neural Stem Cells In Vitro*

**Arpita Chakraborty**, Department of Physiology and Pathology, All India Institute of Medical Sciences, New Delhi, India  
*Effect of Magnetic Field Stimulation on Soleus Muscle Excitability and Contractility In Spinal Cord Transected Rats*

### Best Paper Award from the Organizers

#### Manjari SKV

Department of Biological Sciences, BITS- Pilani, Hyderabad

*Vitamin D3 Supplement Rescues Motor Disability In 3-Nitropropionic Acid Induced Mouse Model of Huntington's Disease*

#### Bandana Kumari Sahu

Department of Research, Sir Ganga Ram Hospital, Delhi, India

*Effect of Nootropics, The Smart Drugs on Protein Aggregation In Amyloid Disorders*

The XXXVIII annual conference (E-meeting) of Indian Academy of Neurosciences will be organized jointly by Dr (Ms) Anita Jagota, Professor and Head, Department of Animal Biology, University of Hyderabad, Hyderabad and Dr (Ms) Shashi Bala Singh, President, IAN and Director, National Institute of Pharmaceutical Education and Research, Hyderabad from October 4 – 7, 2020. The details of the conference are available on the IAN website: [www.neuroscienceacademy.org.in](http://www.neuroscienceacademy.org.in) Suggestions, if any for the conference may be sent by **Thursday, July 30, 2020** to the organizers.

**Organizing Secretary:**

**Dr (Ms). Anita Jagota**

Professor and Head

Department of Animal Biology

School of Life Sciences, University of Hyderabad

Professor C. R. Rao Road, Gachibowli

Hyderabad – 500 046, India

**Email:** [ianwebinar2020@gmail.com](mailto:ianwebinar2020@gmail.com); [ajsl@uohyd.ernet.in](mailto:ajsl@uohyd.ernet.in)

**Awards for Young Neuroscientists**

To encourage and recognize the contributions of young researchers working in the area of neurosciences, the Indian Academy of Neurosciences has instituted following awards /prizes -

**Tulsabai Somani Educational Trust Award**

(For best oral presentation by the young neuroscientist below 40 years of age at the time of annual conference).

**Dr DM Kar Prize**

(For best oral presentation by the young neuroscientist below 35 years of age at the time of annual conference).

**Professor S.S. Parmar Research Foundation (USA) Prize**

(For best poster presentation by young neuroscientist below 35 years of age at the time of annual conference).

**Jyotsnamoyee - Raghunath Bhattacharya Prize**

(For best published research paper in the field of basic neurosciences. Paper should have been published during the past 2 years).

**Suttee Nag Prize**

(For the best poster presentation by young neuroscientist below 35 years of age at the annual conference)

**For more details, please visit <http://neuroscienceacademy.org.in/index.php> and click AWARDS**

Individuals willing to be considered for the awards may apply directly or get themselves nominated.

The details of the awards are on the IAN website. Further information, if any may be obtained from Dr Vinay K. Khanna, Secretary (HQ), Senior Principal Scientist and Professor-AcSIR, Developmental Toxicology Laboratory, Systems Toxicology & Health Risk Assessment Group, CSIR – Indian Institute of Toxicology Research, Vishvigyan Bhavan, 31, Mahatma Gandhi Marg P.O. Box No. 80, Lucknow – 226 001, Uttar Pradesh, India,

**Email:** [neuroscienceacademy@gmail.com](mailto:neuroscienceacademy@gmail.com)

**Last date of receiving nominations is Monday, August 17, 2020.**

## Executive Committee 2019 - 2020

### President

Dr Shashi Bala Singh  
New Delhi 2018 - 2020

### Vice Presidents

Dr R Vemuganti  
Madison, USA 2019 - 2021

Dr (Ms) S Jain  
New Delhi 2020 - 2022

### Dean

Dr MK Thakur  
New Delhi 2018 - 2020

### General Secretary

Dr P Seth  
Manesar 2020 - 2022

### Secretary HQ

Dr VK Khanna  
Lucknow 2019 - 2021

### Secretary International Affairs

Dr Sunil Kaul  
Tsukuba, Japan 2019 - 2021

### Treasurer

Dr AK Agrawal  
Lucknow 2020 - 2022

### Chief Editor

Dr A Anand  
Chandigarh 2018 - 2020

### Members

Dr BSS Rao  
Bangalore 2019 - 2021

Dr KP Misra  
Mumbai 2019 - 2021

Dr (Ms) Kamlesh K Gulia  
Thiruvananthapuram 2018 - 2020

Dr RC Sharma  
Shillong 2018 - 2020

Dr (Ms) Jayasri D Sarma  
Kolkata 2020 - 2022

Dr Aurnab Ghose  
Pune 2020 - 2022

### IBRO and FAONS Representative

Dr PK Seth  
Lucknow

### Immediate Past President

Dr Subrata Sinha  
New Delhi

### Immediate Past General Secretary

Dr M.K. Thakur  
Varanasi

## Forthcoming Meetings / Symposia / Workshops / Neuroscience School

15<sup>th</sup> SONA / 4<sup>th</sup> GNS Conference, April 25 - 29, 2021; Ghana

Website: <https://sonafrica.org/conferences-events/>

XI Cajal Conference, Spanish Society for Neuroscience, May 5-7, 2021; Costa Brava, Spain

For Registration, please, send an e-mail to SENC Technical Secretary: [secretaria.tecnica@senc.es](mailto:secretaria.tecnica@senc.es)

24<sup>th</sup> ESN Biennial Meeting & 8<sup>th</sup> Conference on Molecular and Cellular Mechanisms of Regulation in the Nervous System, May 23-26, 2021; Saint Petersburg, Russia

Website: <https://www.neurochemsoc.eu>

8<sup>th</sup> Mediterranean Neuroscience Conference, June 13-17, 2021; Croatia

Website: <https://www.mns2021conference.org/>

44<sup>th</sup> Annual Meeting of the Japan Neuroscience Society, July 28-31, 2021; Kobe Convention Center, Japan

Website: <https://neuroscience.neuroscience.neuroscience2021.jnss.org>

SENC Meeting 2021, September 7-9, 2021; Lleida

Website: <https://www.senc.es/en/senc-meeting-2021-2/>

XXXVIII Annual Conference of Indian Academy of Neurosciences, (IAN International E-Conference), October 4 - 7, 2020; University of Hyderabad, Hyderabad, Telangana, India

Website: <https://ianwebinar2020.com>

## Post-Satellite Symposium on

Neurodegeneration and Neuroprotection: Advances and Challenges  
October 9 - 10, 2020, Ravenshaw University, Cuttack, Odisha, India



## Nominations for BK Bachhawat Memorial Life Time Achievement Award & KT Shetty Memorial Oration

Nominations for **BK Bachhawat Memorial Life Time Achievement Award for 2020 and KT Shetty Memorial Oration for 2019 and 2020** are invited. The nominee must be a Life Member of Indian Academy of Neurosciences. He/She should have at least 10 years standing in the area of neurosciences. The contributions in neuroscience in India will be judged by (i) Research publications (ii) Honours and Awards and (iii) Contributions in the growth of neuroscience in India.

Nominations along with complete Bio-data and supporting documents should be sent to Dr Mahendra K. Thakur, Professor & Head, Department of Zoology, Banaras Hindu University, Varanasi - 221 005 **Email:** <mkt\_bh@yaho.com>; <mktian2007@gmail.com> and a copy of the same to Dr Vinay K. Khanna, Secretary (HQ), Senior Principal Scientist and Professor-AcSIR, Developmental Toxicology Laboratory, Systems Toxicology & Health Risk Assessment Group, CSIR - Indian Institute of Toxicology Research, Vishvigyan Bhavan, 31, Mahatma Gandhi Marg P.O. Box No. 80, Lucknow - 226 001, Uttar Pradesh, India, **Email:** <neuroscienceacademy@gmail.com> positively by **Monday; August 17, 2020.**

## Nominations for IAN Fellowship

The Academy recognizes scientists who have excelled in neurosciences by electing them Fellows. A life member of the Academy with at least 10 years of research experience in the field of neurosciences can be nominated. Nominations on prescribed format available at the website duly proposed and supported by Fellows of Indian Academy of Neurosciences are invited along with curriculum vitae. Both soft copy and hard copy of nomination complete in all respects should be sent to Dr Mahendra K. Thakur, Dean, Indian Academy of Neurosciences and Professor & Head, Department of Zoology, Banaras Hindu University, Varanasi - 221 005 **Email:** <mkt\_bh@yaho.com>; <mktian2007@gmail.com>

Further, copy (both soft and hard copy) of the nomination papers should also be sent to Dr Vinay K. Khanna, Secretary (HQ), Senior Principal Scientist and Professor-AcSIR, Developmental Toxicology Laboratory, Systems Toxicology & Health Risk Assessment Group, CSIR - Indian Institute of Toxicology Research, Vishvigyan Bhavan, 31 Mahatma Gandhi Marg, P.O. Box No. 80, Lucknow - 226 001, Uttar Pradesh, India, **Email:** <neuroscienceacademy@gmail.com> latest by **Monday; August 17, 2020.**

**Incomplete nominations will not be entertained.**

**Nominations received after the last date will be considered next year.**

## Nominations for the Executive Committee

Nominations for the positions of President (1), Dean (1), Chief Editor (1) and Members (2) are invited on the prescribed format enclosed herewith. The term for these positions will be for 3 years. The nominations should be sent either to **Dr Vinay K. Khanna**, Secretary (HQ), Senior Principal Scientist and Professor-AcSIR, Developmental Toxicology Laboratory, Systems Toxicology & Health Risk Assessment Group, CSIR - Indian Institute of Toxicology Research, Vishvigyan Bhavan, 31, Mahatma Gandhi Marg P.O. Box No. 80, Lucknow - 226 001, Uttar Pradesh, India, **Email:** <neuroscienceacademy@gmail.com > or to **Dr Pankaj Seth**, General Secretary, Professor, National Brain Research Centre, NH-8, Nainwal Road, Manesar - 122 051, **Email:** <pseth@nbr.ac.in> so as to reach them positively by **Monday; August 17, 2020.**

## IAN - Lalita and Ravindra Nath International Travel Awards



Applications are invited for the **Lalita and Ravindra Nath International Travel Awards** from researchers working in neurosciences intending to present a paper at a neuroscience conference or attend neuroscience schools / training workshops outside India.

### Criteria and Guidelines

1. Applicant should be the first author on the selected abstract, presenting their work as a talk or poster at an international neuroscience conference or selected for a neuroscience workshop and be an IAN member at the time of application.
2. Applicant should be at an advanced stage of pursuing research in neuroscience in a national laboratory or UGC recognized university as a Ph.D. candidate or a post-doctoral fellow (PDF) (awarded Ph.D. degree within the last 2 years from the application deadline).
3. Applicant should have a strong scholastic record and the application should be supported by two recommendation letters, including one from the Ph.D. supervisor.
4. Applicant should provide a paragraph to describe the scientific questions being pursued and as to how the conference / school / workshop will help in their research (within 200 words).
5. The application will be reviewed by a committee, and two awards will be announced 4 weeks after the last date of application.
6. Preference will be given to researchers (Ph.D. students or PDF) attending the FAONS conference or neuroscience school / training workshops / conference in the Asian region and conference or workshop in other regions of the globe.

### What the award will cover?

1. A bursary up to INR 50,000 (Rupees Fifty Thousand Only) will be provided to the selected candidates to cover partial expenses towards their registration, travel, boarding and lodging.
2. Total amount will be a maximum of INR 50,000 (Rupees Fifty Thousand Only) per award and will include a certificate signed by the President of the IAN.
3. Award money will be disbursed on return to India and after providing proof of participation (Participation certificate / picture at the meeting during talk / poster session), travel tickets (attested copy by the Head of Department; HOD), receipts of registration and accommodation charges (attested copy by HOD) and a brief report of the conference / school / workshop.

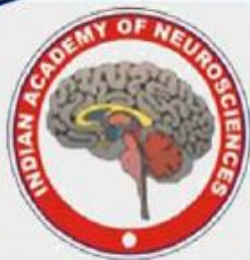
### How to apply?

Prepare following documents in MS Word or PDF and submit online

1. Details of conference / workshop applicant wishes to attend.
2. Copy of the abstract and its acceptance for the neuroscience meeting. In case of neuroscience schools / training workshops, copy of the selection letter.
3. Curriculum vitae, including list of papers and abstracts presented in meetings.
4. Scan of two recommendation letters including one from the supervisor.
5. Statement as to how participation in the event will be helpful to the applicant (within 200 words)

**Deadline for receiving Applications: Monday, August 17, 2020.**



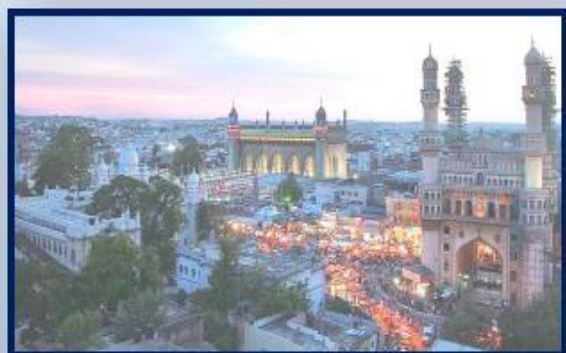


# XXXVIII Annual Conference of Indian Academy of Neurosciences

IAN INTERNATIONAL E-CONFERENCE

October 4 – 7, 2020  
Hyderabad, Telangana, India

*Basic and Clinical Neurosciences : Bridging the Gaps*



School of Life Science, UH



NIPER, Hyderabad

- Satellite Meetings
- Pre-conference Workshops
- Plenary Sessions
- Symposia
- Invited Talks
- Special Lecture on Techniques
- Young Scientist Colloquia
- Poster Sessions
- Panel Discussion
- Post-Satellite Symposia

Jointly organized by -

**Dr. Anita Jagota**

Prof. Head, Department of Animal Biology  
University of Hyderabad, Hyderabad  
&

**Dr. Shashi Bala Singh**

Director, National Institute of Pharmaceutical Education  
and Research, Hyderabad

**Deadlines –**

Proposal for Symposia, Satellites – July 31, 2020

Registration, abstract submission – August 15, 2020

Registration Fee: INR 700/-  
(All delegates)

Email: [ianwebinar2020@gmail.com](mailto:ianwebinar2020@gmail.com)

Conference Website - [ianwebinar2020.com](http://ianwebinar2020.com)

IAN Website: <http://neuroscienceacademy.org.in>



## Indian Academy of Neurosciences

### Proforma for Nomination for the Election of Fellows

1. Name:.....

2. (a) Date of Birth..... (b) Gender: Male  Female

3. Designation/Affiliation:.....

4. Address:

(a) Official.....

.....

(b) Residential.....

.....

Telephone/Mobile.....Email.....

5. Membership Status Yes / No  
[Date of Joining Academy as Life Member].....

6. Qualification (Degree and Post Graduation).....

7. Specialization / Area of research.....

8. Significant Contributions in the field of Neurosciences  
(About 200 words, Attach annexure if required)

9. Publications in the last five years  
(Please give complete references and attach copies of three publications)

	Proposed by	Supported by
Name	-----	-----
Address	-----	-----
Signature	-----	-----

**Note:**

*Proposer and Seconder should be Fellows of the Academy. Complete set of nomination and CV of the nominee should be sent to the Dean and a copy of the set to the Secretary HQ of the Academy before the last date. Soft copy of the material on CD should also be sent along positively. **Nominations received after the last date will be considered next year.***



# Indian Academy of Neurosciences

## FORM FOR ANNUAL ELECTION

Nomination for the post of : .....

Name : .....

Address:.....  
.....  
.....

Membership No. : .....

**Proposer**

**Secunder**

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Membership No. \_\_\_\_\_

Membership No. \_\_\_\_\_

Signature \_\_\_\_\_

Signature \_\_\_\_\_



### Address for Correspondence

**Dr Vinay K. Khanna**

Secretary (HQ)

Senior Principal Scientist & Professor-AcSIR

Developmental Toxicology Laboratory

Systems Toxicology & Health Risk Assessment Group

CSIR - Indian Institute of Toxicology Research (CSIR-IITR)

Vishvigyan Bhavan, 31, Mahatma Gandhi Marg

P.O. Box No. 80, Lucknow - 226 001, Uttar Pradesh, India

**Email:** <neuroscienceacademy@gmail.com>

**Dr Pankaj Seth**

General Secretary

Professor and Scientist VI

Molecular and Cellular Neuroscience

Neurovirology Section

National Brain Research Centre (NBRC)

NH - 8, Nainwal Mode, Manesar

Gurugram, Haryana -122 051, India

**Email:** <pseth@nbrc.ac.in>

**Website:** <http://neuroscienceacademy.org.in>