



Neurosciences Newsletter

House Magazine of

# Indian Academy of Neurosciences

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May 2018



## Message from the President

Using a 'brain to study the brain' is more challenging than it sounds, making neuroscience one of the most researched subjects worldwide. The Indian Academy of Neurosciences was established in 1984 with a vision to foster interdisciplinary neuroscience research in the country and advance our understanding about the brain. Over the years, the academy has evolved as a citadel for promoting neuroscience education and research through its growing outreach to different generations of neuroscientists in the country and abroad. The growing participation of young budding researchers in the activities of the academy reinforces my belief on a bright future of neurosciences in India. Interacting with the young scientists and researchers of today's technological era leaves me bewildered with the immense energy, creativity, information and reasoning capabilities they possess which has the potential to transform the scope and boundaries of neuroscience research in the country. At the same time it also reminds me of the great responsibility that we have, as mentors, to appropriately channelize this young energy and provide the right platform, ethics and breakthrough to the next generation of neuroscientists.

We have made commendable progress in promoting multi-institutional collaborations for various disciplines of neurosciences. The challenge in recent years however lies in absorbing the trained manpower from across the country and abroad by creating career opportunities in neurosciences within the country. This requires intensified interactions between academic and research institutions as well as industry. Encouraging larger participation of women in neuroscience research is another aspect that needs to be focused. Another great challenge is to reduce the gap between neuroscience knowledge hubs and remotely located neuroscience departments and laboratories through intensified outreach programmes. Strengthening the local chapters and creating regional committees in local chapters of the academy is probably the best suited approach to increase the outreach of the academy to every nook and corner of the country.

The future definitely looks bright but the task ahead is daunting. As responsible members of this prestigious academy, there is a need for all of us to join our forces, deliberate, share a common vision and endeavour towards creating a conducive environment in the country, not only to promote neuroscience research but also to provide a platform for its translation to societal benefits that could create career opportunities for future generations. I thank all the members of Indian Academy of Neurosciences for electing me as the President of the academy and request your active participation in shaping the future of neuroscience research.

**Dr (Ms). Shashi B. Singh**

President

Indian Academy of Neurosciences



**Dr Vinay K. Khanna**

## Report



**Dr Pankaj Seth**

The Indian Academy Neurosciences continued its path of growth in terms of the number of members and its stature at national and international forums. In recent years the academy has partnered with the Japanese Neuroscience Society (JNS), the largest neuroscience organization of the Asia-Oceanic region to increase participation of neuroscientists from both countries in annual meetings of JNS and IAN. Four members of IAN at the levels of early career neuroscientists and postdoctoral fellows were supported by JNS and invited for their annual meetings. Prof Isa Tadahashi, President JNS, attended the XXXV annual meeting of IAN at Cuttack and offered to further strengthen the academic ties between the two bodies. Prof Tadahashi was offered and has accepted our invitation to be honorary fellow of IAN.

The XXXV annual meeting at Cuttack was a great success and had a large vibrant participation from more than 200 students that presented posters, short talks, actively participated and competed in several award sessions. The meeting was attended by neuroscientists from various countries. IAN annual meetings provide an important platform for Indian neuroscientists to showcase their research, cross fertilize the ideas with peers across the globe and that has often resulted in initiating new collaborations among laboratories. The academy organized several events through various chapters across India, including, at its US chapter. Among the several activities at IAN chapters, one of the major one was organization of World NeuroCongress by the Aligarh chapter by Dr. Mehdi.

The Indian Academy of Neurosciences has reached out to people at all levels through the activities of an IBRO sponsored Advocacy program spearheaded by the Lucknow chapter. The chapter organized lectures, workshops and sessions for common people and involved policy makers and local politicians into the program to spread awareness about brain disorders, advancements in neuroscience research and most importantly need for increase in funding for basic research. The country witnessed an increase in number of neuroscience courses, training workshops and IBRO sponsored schools in past year. There has been a surge in the interest in awareness of human brain and its disorders among people and most of it following the brain awareness programs being conducted by the National Brain Research Centre. Some of its activities were conducted through involvement of IAN members and local chapters.

The official journal of academy, Annals of Neurosciences has a global footprint after entering with partnership with KARGER publishing group. The journal is receiving more manuscripts than in previous years, which reflects its recognition and acceptance at international levels.

While there are several accomplishments to the credit of this 35 year old academy representing neuroscientists from India and abroad, the executive members continue to raise the bar. The academy aims to increase its international presence by adding more chapters. We are constantly engaged in discussions with our members in other countries and the academy is exploring possibilities to join hands with regional neuroscience societies and hold joint meetings, if possible. The academy is also planning to introduce more award categories, increasing the award amounts to factor inflation in economy and helping neuroscience students to participate in national and international meetings.

We thank Professor Subrata Sinha, the immediate past president of IAN for his leadership that helped the academy attain new heights. Further, we welcome Dr Shashi Bala Singh as our new President and look forward for a dynamic leadership that will help academy to further build upon its strengths and venture into new areas in near future.

Thank you.

**Dr Vinay K. Khanna**  
Secretary HQ

**Dr Pankaj Seth**  
General Secretary

## Professor M. Gourie-Devi, Institute of Human Behaviour and Allied Sciences, New Delhi conferred on BK Bachhawat Memorial Lifetime Achievement Award – 2016



**Dr M. Gourie-Devi** is Emeritus Professor of Neurology at the Institute of Human Behaviour and Allied Sciences and Senior Consultant in Neurology and Chair of Neurophysiology Department at Sir Ganga Ram Hospital, New Delhi. She is also Honorary Advisor for Neurological Research at the Indian Medical Council of Medical Research. Earlier she was the Director/Vice Chancellor and Professor of Neurology at the National Institute of Mental Health and Neuro Sciences, Bangalore.

Prof. M. Gourie-Devi is a distinguished neurologist endowed with qualities of an astute clinician, enjoys reputation as an inspiring teacher and sought after mentor by a large number of students and is a keen researcher. She has made notable contributions in motor neuron diseases in the domains of both clinical and experimental aspects, original description of Monomelic Amyotrophy and elaborated the clinical and genetic features of Madras Motor neuron disease. Her other areas of research interest include Japanese encephalitis, Neuromuscular disorders, Leprous neuropathy and Neurotuberculosis. The pioneering work in Neuroepidemiology has been acclaimed at the National and International forums and has been a bench mark for similar studies in India.

Prof. Gourie-Devi born on 13 December 1938, Anakapalle, Andhra Pradesh, received MBBS degree from Andhra Medical College, Visakhapatnam in 1960, MD in Medicine in 1964 and DM Neurology in 1968, both from All India Institute of Medical Sciences and served as faculty at Osmania Medical College and later at Safdarjang Hospital, New Delhi. Subsequently she was appointed as Professor and Head of Department of Neurology at the prestigious National Institute of Mental Health and Neuro Sciences (NIMHANS), Bangalore and during the two decades of her leadership the department of Neurology grew to be one of the finest in the country. More than a hundred neurologists trained under her tutelage are now occupying coveted positions in the country.

During her tenure as Director-Vice Chancellor of NIMHANS from 1997 to 2002, she introduced novel training programmes and catalysed research in clinical and basic neurosciences and behavioural sciences. The institute made rapid strides in establishment of state of art facilities and initiation of collaboration with prestigious National and International institutes.

Prof. Gourie-Devi has been conferred many prestigious awards and distinctions, notable among them are:

- i) "Basanti Devi Amir Chand Prize" Indian Council of Medical Research in recognition of contributions to the field of Neurology (1997),
- ii) "Om Prakash Bhasin Award" for outstanding contributions in the field of Health and Medical Sciences (1998),
- iii) Dr. B. C. Roy Award in the Highest category of Eminent Medical Person, Medical Council of India (2001) and
- iv) DSc (Honoris Causa) conferred by NTR University of Health Sciences, Andhra Pradesh (2002).

Prof Gourie-Devi has delivered 40 orations and had been Visiting Professor at 70 universities in India and abroad. She is a Fellow of National Academy of Medical Sciences, Andhra Pradesh Akademi of Sciences, Indian Academy of Neurology and National Academy of Sciences, India.

She has played an important role in nurturing neurosciences in the country as Member of National organisations including Department of Science and Technology, Department of Biotechnology, Indian Council of Medical Research and Defence Research and Development Organisation (DRDO). She is also Member of International bodies such as World Federation of Neurology, Expert Advisory Panel on Neurosciences of World Health Organisation and Fogarty International Brain Disorders Committee, National Institute of Health, USA and currently she continues to function in many of these National and International organisations.

Dr Gourie-Devi was the Founder Editor of the journal, Annals of Indian Academy of Neurology and was a Member of Editorial Board of many journals including Lancet Neurology, Amyotrophic Lateral Sclerosis, Neuroepidemiology, Electroencephalography and Clinical Neurophysiology. She has many publications in National and International journals and contributed chapters in books.

## Dr Trichur R Raju, SVYASA University, Bengaluru conferred on BK Bachhawat Memorial Lifetime Achievement Award – 2017



Dr TR. Raju is a multi-faceted personality. He is at ease in any circle, discussing science, politics, cuisine, current affairs, history, culture with individuals of all backgrounds. With his vast experience, quick wit and generous spirit, he has ably served the scientific community in India and around the globe. He has worn many hats – being an expert member on the Law Commission of India, chairing the ethics committee of various institutes,

serving as a mentor and expert for Neuroscience/Physiology/Neurology across the country and dealing with institutional administrative affairs as a Dean. These distinguished positions are well earned. Remarkably, Dr. Raju has played lead roles for a long time. Even when he entered the portals of NIMHANS in 1989, he already had high recommendations from his peers based on his research in the University of Sydney and the coveted Harvard Medical School. By 1992, he was the Head of the Department of Neurophysiology at NIMHANS, the youngest person to hold such a post. He later on became one of the youngest full Professors in the institute and served as Dean of NIMHANS, Dean of Basic Sciences, and a Senior Professor.

From discovering biomarkers in neurodegenerative disorders and establishing the central roles of glia and trophic factors during development, that can further our collected endeavour in the pursuit of medicine, Dr. Raju has lead by example. He has demonstrated how to march on in the face of challenges, persistence and patience to achieve results and most importantly in uniting the team, and channelizing everyone's potential. Through his incisive and provocative questions, he has inspired many a student to get out of their comfort zones and explore the myriad nuances of neurophysiology. It is difficult to pick highlights of his time at NIMHANS – his work spans neurodevelopment, neurodegeneration, adult neural plasticity, nervous system regeneration and even use of complementary approaches such as yoga and Ayurveda for the treatment of neuropsychiatric disorders. He has received numerous awards and honours in his career including being elected as a Fellow of Indian Academy of Sciences and a Fellow of Indian Academy of Neuroscience. His is a remarkable saga of achieving breadth and depth in scientific research. He has received the most coveted oration awards from the Association of Physiologists and Pharmacologists of India and Physiological Society of India. As a member of the Global membership and Chapters Committee of Society of Neuroscience, he plays a significant role in the promotion of Neuroscience globally.

Dr. Raju's tireless efforts with his team, has earned global recognition and his medical comprehension even caught the sights of the late and beloved President of India, Dr. A. P. J. Abdul Kalam who was fascinated by his thoughts on brain studies. Dr. Raju has contributed immensely to the scientific literature through his publications in peer reviewed journals, books and book chapters. His work continues to be highly cited.

Out of the office too, Dr. T. R. Raju is jovial and the life of the party ~ always the first on the dance floor. His passion for cars is unmissable. His team was his extended family and he always stepped in times of need, ready to help.

## Dr Aditya B. Pant, CSIR – Indian Institute of Toxicology Research, Lucknow conferred on KT Shetty Memorial Oration – 2017



**Dr Aditya B. Pant** is a seasoned toxicologist, started his research career over twenty-seven years back at Central Drug Research Institute, Lucknow, India. He is an alumnus of the Department of Biotechnology, IIT Roorkee, Uttarakhand, India. Since 1997, he is serving at Indian Institute of Toxicology Research, Lucknow, India. In the scientific fraternity, Dr Pant is regarded for establishing the cell based models as alternatives to laboratory animals for neurotoxicity/ developmental neurotoxicity,

cytotoxicity, pyrogenicity, phototoxicity, hepatotoxicity, genotoxicity, oral-toxicity. He has been instrumental in establishing the laboratory for stem cell research in Lucknow and became renowned for his elegant research on application of human cord blood stem cells (hCBSCs) in developmental neurotoxicity (DNT). His research group has demonstrated the mapping of cellular and sub-cellular events of differentiation of hCBSCs into morphological and functional neuronal cells. His DNT research provides deep insights into the complex processes involved in neuronal development, injury and repair mimicking to the human brain during the gestation and early stage of life. More precisely, his work discovered that how the master regulator signalling molecules/ cascades are critical to convert hCBSCs into functional neurons and what exactly happens when things go wrong during the intricate process of neuronal development. In his much-acclaimed research, he has uncovered novel links between the xenobiotic metabolizing capabilities and their regulators in hCBSCs derived neuronal cells all through the differentiation. His work on the developing neurons not only offers a much sought after framework for understanding the neurodegenerative disorders and potential therapeutic interventions, but also is a strong base for future studies aimed at interpreting the human brain specific DNT.

Besides the laboratory work, he fostered the science among students through public outreach talks and mentoring pre-and post-doctorates. Since 2010 he has also been associated with National GLP Compliance Monitoring Authority of India as GLP Inspector. The accreditation agencies of the country-BIS, DCGI, NABL, Pharmacovigilance, etc. are also utilizing his expertise. Taking his inputs Society of Toxicology, USA has developed a consensus document “**Hooka: How dangerous is it?**” for wide publicity. He has developed an online human health risk assessment system for Indian population-<http://healthriskindia.in>. He was a member in the draft committee of “National SOP for Patients’ Consent in India” developed by the Institute of Medicine & Law, Mumbai. As an International Advisor, he has been instrumental in establishing the WHO funded “Centre of Excellence for Nanotechnology” at Makerere University, Uganda. Recently, he is culminating a task to address the challenges of a neglected neurodegenerative disorder-Amyotrophic Lateral Sclerosis by utilizing an investigator driven federal funding under Indo-Brazilian project. In the acknowledgement of his achievements in the professional career, he has been elected Fellow Several Scientific and Academies bodies, to name a few are: Academy of Toxicological Sciences, USA, Society of Toxicology, India, Indian Academy of Neurosciences, Academy of Sciences for Animal Welfare, India, Academy of Environmental Biology India, etc. Dr Pant is a recipient several prestigious awards such as Shakuntala Amir Chand Prize-2007 (ICMR), Vigyan Ratna Award-2010 (UP-Council of Science & Technology-Uttar Pradesh), National Bioscience Award-2012 (DBT).

## Honorary Fellow - 2017



**Dr Tadashi Isa**  
Department of Neuroscience  
Graduate School of Medicine  
Kyoto University  
Kyoto, Japan  
Email: <tisa710@gmail.com>

## Elected Fellows - 2017



**Professor Charanjit Kaur**  
Department of Anatomy  
Yong Loo Lin School of Medicine  
National University of Singapore  
MD10, 4 Medical Drive  
Singapore 117594  
Email: <antkaurc@nus.edu.sg>



**Dr B.S. Shankaranarayana Rao**  
Department of Neurophysiology  
National Institute of Mental Health &  
Neurosciences, Hosur Road  
Bengaluru - 560 029, India  
Email: <bssrao.nimhans@gmail.com>

## Travel Fellowship - 2017

### IAN Travel Fellowships

1. **Kowshik K**, Neurobiology and Molecular Chronobiology Laboratory, Department of Animal Biology, School of Life Sciences, University of Hyderabad, Hyderabad, India
2. **Manmeet Singh**, Department of Biological Science, Indian Institute of Science Education and Research (IISER), Kolkata, India
3. **Khushboo Srivastava**, Department of Zoology, Institute of Science, Banaras Hindu University (BHU), Varanasi, India
4. **Tiyasha Sarkar**, School of Studies in Neuroscience, Jiwaji University, Gwalior, India
5. **Neha Kishore Chawda**, Sophia College, Mumbai, India

### Lalita and Ravindra Nath Travel Fellowships

1. **Arpita Chakraborty**, All India Institute of Medical Sciences New Delhi, India
2. **Anuradha Mehta**, National Brain Research Centre Manesar, Gurugram, India
3. **Mrinmay Dhauria**, University of Calcutta, Kolkata, India
4. **Shweta Singh Chauhan**, Amity University, Lucknow, India
5. **Shweta Nandan Menon**, Sophia College, Mumbai, India

### John Miller Travel Awards

1. **Meenakshi Maurya**, All India Institute of Medical Sciences, New Delhi, India
2. **Mohit Kwatra**, National Institute of Pharmaceutical Education and Research, Guwahati, Assam, India

## Awardees - 2017

### Tulsabai Somani Educational Trust Award

**Ankita Pandey**, CSIR - Indian Institute of Toxicology Research, Lucknow, India  
*Induced autophagy protects neural stem cell derived lineage against toxic insult by ameliorating apoptosis and mitochondrial dysfunctions*

### Dr. D.M. Kar Prize

**Sudeshna Das**, DIPAS, Defence Institute of Physiology and Allied Sciences (DIPAS), New Delhi, India  
*Suppression of MAC-1 scavenger receptor upregulate M2 microglial phenotype leading to reversal of hypoxia induced working memory impairment*

### Jyotsnamoyee Raghunath Bhattacharya Prize

**Arpita Sharma**, School of Studies in Neuroscience, Jiwaji University, Gwalior, India  
*Lipopolysaccharide-Induced Apoptosis of Astrocytes: Therapeutic Intervention by Minocycline*, Paper published in Cell Mol Neurobiol 36: 577-592, 2016.

### S.S. Parmar Research Foundation (USA) Prize

**Dhanashree Alshi**, Department of Life Sciences, Sophia College, Mumbai, India  
*Effect of Metformin on the stalk length in Dictyostelium discoideum*

**Soumya Kundu**, Department of Biological Sciences, Indian Institute of Science Education and Research (IISER), Kolkata, India  
*DJ-1 regulation in viral induced oxidative stress in neural cells*

### Suttee Nag Prize

**Debanjana Chakravarty**, Department of Biological Sciences, Indian Institute of Science Education and Research (IISER), Kolkata, India  
*Protective function of CD40 in mouse hepatitis virus (MHV)-induced demyelination*

**Preeti Kute**, Institute for Stem Cell Biology and Regenerative Medicine (inStem), Bangalore, India  
*Translational regulation downstream of NMDAR signalling mediated by AGO2-MOV10-FMRP complex*

### Best Paper Awards from the Organizers

**Prosenjit Pal**, S.N. Pradhan Centre for Neurosciences, University of Calcutta, Kolkata, India  
*Role of Heterozygous PINK1 Mutants and DJ-1 Promoter Variants in Parkinson's Disease Pathogenesis*

**Harpal Singh**, Department of Biotechnology, Guru Nanak Dev University (GNDU), Amritsar, India  
*Chronic sleep Deprivation and brain functions impairments*

## Next Annual Conference of IAN at Varanasi

The XXXVI annual conference of Indian Academy of Neurosciences will be held at Banaras Hindu University, Varanasi – 221 005, India from October 29 – 31, 2018. Dr S. Prasad is the Organizing Secretary.

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 **July 31, 2018** to the organizers.

### Organizing Secretary:

**Dr S. Prasad**

Professor, Department of Zoology

Banaras Hindu University

Varanasi – 221 005, India

**Email:** <[ianbhu2018@gmail.com](mailto:ianbhu2018@gmail.com)>

<[s.sprasadbhu@gmail.com](mailto:s.sprasadbhu@gmail.com)>

**Mobile:** +91 – 9415812467

## Call for Proposals for Symposia

Proposals for symposia & workshops on cutting edge areas of neuroscience are invited for consideration for XXXVI annual meeting of Indian Academy of Neurosciences at BHU, Varanasi.

The duration of the symposium / workshop should be around 2 hours. A list of speakers (~ 4 – 5 including 2 from India) along with their contact addresses and emails and tentative topics should be submitted no later than May 21, 2018 to the Organizing Secretary – Dr S. Prasad, **Email:** <[ianbhu2018@gmail.com](mailto:ianbhu2018@gmail.com)>; <[s.sprasadbhu@gmail.com](mailto:s.sprasadbhu@gmail.com)> and a copy be mailed to Secretary, HQ – Dr Vinay K. Khanna **Email:** <[neuroscienceacademy@gmail.com](mailto:neuroscienceacademy@gmail.com)>

## 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 annual conference).

**Dr. D.M. Kar Prize** (For best oral presentation by the young neuroscientist below 35 years of age at the annual conference).

**Professor S.S. Parmar Research Foundation (USA) Prize** (For best poster presentation by young neuroscientist below 35 years of age at the 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).

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 August 16, 2018.**

## Travel Fellowships

Applications are invited for **Lalita and Ravindra Nath Memorial Travel Fellowships, IAN Travel Fellowships and John Miller Travel Awards**. Students and young researchers below 35 years of age presenting a paper at the annual conference of IAN at Varanasi are eligible to apply. The fellowships / awards will be available on competitive basis.

Travel fellowships consisting of actual travel reimbursement by AC 3-Tier or up to the maximum of Rs. 5,000/- (Rupees Five thousand only) will be awarded. There will be 4 travel fellowships each in case of Lalita and Ravindra Nath Memorial Travel Fellowship and IAN Travel Fellowships. In case of John Miller Travel Award, upto two travel awards consisting of actual travel reimbursement by AC 3-Tier or up to the maximum of Rs. 2,500/- (Rupees Two thousand five hundred only) will be awarded. Applications duly forwarded by Supervisor / Head indicating the category of award along with abstract of the paper may be sent to the Organizing Secretary – Dr S. Prasad, Professor, Department of Zoology, Banaras Hindu University, Varanasi – 221 005, India, **Email:** <[ianbhu2018@gmail.com](mailto:ianbhu2018@gmail.com)>; <[s.sprasadbhu@gmail.com](mailto:s.sprasadbhu@gmail.com)> Copy of the application and abstract should also be sent to The **Treasurer** Dr A.K. Agrawal, CSIR – Indian Institute of Toxicology Research, MG Marg, Post Box No. 80, Lucknow – 226 001, **Email:** <[aka33@rediffmail.com](mailto:aka33@rediffmail.com)>

**Last date of receiving applications is August 16, 2018.**

## Executive Committee 2017 - 2018

### President

Dr Shashi B. Singh 2018 - 2020  
New Delhi

### Vice Presidents

Dr SC Pandey 2016 - 2018  
Chicago, USA

Dr (Ms) G Kaur 2017 - 2019  
Amritsar

### Dean

Dr MK Thakur 2018 - 2020  
New Delhi

### Secretary HQ

Dr VK Khanna 2016 - 2018  
Lucknow

### General Secretary

Dr P Seth 2017 - 2019  
Manesar

### Secretary International Affairs

Dr Dipak Sarkar 2016 - 2018  
Rutgers, USA

### Treasurer

Dr AK Agrawal 2017 - 2019  
Lucknow

### Chief Editor

Dr A Anand 2018 - 2020  
Chandigarh

### Members

Dr (Ms) Kamlesh K Gulia 2018 - 2020  
Thiruvananthapuram

Dr RC Sharma 2018 - 2020  
Shillong

Dr TK Ghosh 2017 - 2019  
Kolkata

Dr (Ms) S Jain 2017 - 2019  
New Delhi

Dr (Ms) Laxmi T. Rao 2016 - 2018  
Bangalore

Dr (Ms) M Rajadhyaksha 2016 - 2018  
Mumbai

### IBRO and FAONS Representative

Dr PK Seth  
Lucknow

### Immediate Past President

Dr Subrata Sinha  
New Delhi

### Immediate Past General Secretary

Dr MK Thakur  
Varanasi

## Forthcoming Meetings / Symposia / Workshops / Neuroscience School

**22<sup>nd</sup> Biennial Meeting of the International Society for Developmental Neuroscience**, 22-25, May 2018, Nara Kasugano International Forum, Nara, Japan

Website: <http://www.isdn-conference.elsevier.com/>

**IBRO-APRC School on Cognitive Neuroscience - The 5<sup>th</sup> Bangalore Cognition Workshop**, June 17-29, 2018, Centre for Neuroscience, Indian Institute of Science, Bangalore 560012

Website: <https://sites.google.com/site/bangalorecognition5/home>

**Advances in Neurodegenerative Disease Research and Therapy (Z3)**, June 17-21, 2018, Keystone Resort, Keystone, Colorado, USA

Website: <http://www.keystonesymposia.org/index.cfm?e=web.Meeting.Program&meetingid=1570>

**11<sup>th</sup> Federation of European Neuroscience Societies (FENS)**, July 7-11, 2018, Berlin, Germany

Website: <http://www.forum2018.fens.org/>

**New Frontiers in Neuroinflammation: What Happens When CNS and Periphery Meet? (Z4)**, June 17-21, 2018, Keystone Resort, Keystone, Colorado, USA

Website: <http://www.keystonesymposia.org/18Z4>

**10<sup>th</sup> International Symposium on Neuroprotection and Neurorepair**, October 09-11, 2018, Radisson Blu Park Hotel & Conference Centre, Nizzastraße 55, 01445 Radebeul, Germany

Website: <http://www.neurorepair-2018.de/>

**3<sup>rd</sup> IBRO/APRC Chandigarh Neuroscience School**, October 22-28, 2018, Panjab University, Chandigarh, India

**EMBO meeting - From Synapse to Memory: RNA based regulatory mechanisms**, October 15-18, 2018, National Brain Research Centre, Manesar, India

Website: <http://meetings.embo.org/event/18-rnaregulation>

**IBRO-APRC School on Neural plasticity in health and diseases**, October 21 - November 4, 2018, Department of Physiology, All India Institute of Medical Sciences, New Delhi

**SfN's 48<sup>th</sup> Annual Meeting**, November 3-7, 2018, San Diego, CA

Website: <https://www.sfn.org/annual-meeting/neuroscience-2018>

**10<sup>th</sup> IBRO World Congress of Neuroscience**, September 21-25, 2019, Korea Brain Research Institute (KBRI) and The Korean Society for Brain and Neural Science (KSBNS), Daegu, South Korea

Website: <http://www.ibro2019.org/>



## Nominations for BK Bachhawat Memorial Life Time Achievement Award



## KT Shetty Memorial Oration

Nominations for **BK Bachhawat Memorial Life Time Achievement Award** and **KT Shetty Memorial Oration** for **2018** and **2019** 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\_bhu@yahoo.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 **August 16, 2018**.

## Nominations for IAN Fellowship

The Academy recognizes scientists who have excelled in neurosciences by electing them as 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, proposed and supported by Fellows of Indian Academy of Neurosciences are invited along with curriculum vitae. A soft copy and a 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\_bhu@yahoo.com>; <mktian2007@gmail.com>

Both soft and hard copy of the nomination 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 **August 16, 2018**.

**Important** – Complete set of nomination papers along with CV (one set) should be sent to the Dean and a copy of the same to the Secretary HQ before the last date. Soft copy of the material in CD should also be sent along positively. **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 Vice President (1), Secretary, HQ (1), Secretary International Affairs (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**, Professor, National Brain Research Centre, NH 8, Nainwal Road, Manesar – 122 051, **Email:** <pseth.nbrc@gov.in> so as to reach them positively by **August 16, 2018**.

## 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 an abstract 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.
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 25,000 (Rupees Twenty five 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 25,000 (Rupees Twenty five 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 (conference certificate / picture at the meeting during talk / poster session), travel tickets (attested copy by the 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 of how participation in the meeting will be helpful to the applicant (within 200 words)?

**Last date of receiving applications is August 16, 2018.**



# International Symposium on Translational Neuroscience: Basic to Clinical Research

&

## XXXVI Annual Conference of Indian Academy of Neurosciences

October 29 – 31, 2018

Banaras Hindu University, Varanasi – 221 005, Uttar Pradesh, India



### Dear Colleagues,

The Centre of Advanced Study in Zoology, BHU is a well known institution of India for modern aspects of neuroscience teaching and research in collaboration with Interdisciplinary School of Life Sciences, Department of Biochemistry, Molecular and Human Genetics, Centre of Genetic Disorders, School of Biotechnology, Institute of Science, Department of Neurology and Molecular Biology Unit, Institute of Medical Sciences, Department of Psychology, Faculty of Social Sciences, BHU and Departments of Pharmaceutical and Biomedical Engineering, IIT-BHU. Members of the organizing team cordially welcome you to be part of the XXXVI annual meeting of Indian Academy of Neurosciences being organized at Banaras Hindu University, Varanasi, a world heritage city of Lord Shiva and capital of knowledge situated on the bank of Mokshadayini River Ganges. We look forward to welcoming you at Banaras Hindu University, Varanasi.

Proposal for symposia / workshops / colloquia are invited. The proposal (~500 words) should include clear background and relevance to hold the session. Please also explain the reason of interest to the neuroscientists for holding the session. A list of speakers (~ 4 – 5 including 2 from India) along with their contact addresses and emails and tentative topics should be submitted no later than **May 21, 2018** to the Organizing Secretary and copy be mailed to the Secretary HQ.

S. Prasad

### Scientific Programme

- ✓ Keynote Lecture
- ✓ Plenary Lecture
- ✓ Special Lecture
- ✓ Award Lecture
- ✓ Oral Presentation
- ✓ Poster Presentation
- ✓ Young Scientists Colloquium
- ✓ Neuroscience Education & Training

### Tentative Topics

- ❖ Behavioural & Cognitive Neuroscience
- ❖ Brain Plasticity & Neurogenesis
- ❖ Developmental & Aging Neurobiology
- ❖ Mental Health
- ❖ Neuroinfection & Neuroinflammation
- ❖ Brain Imaging & Computational Neuroscience
- ❖ Neurodegenerative & Neuropsychiatric Disorders
- ❖ Glial Neurobiology
- ❖ Neurobiology of Alcoholism
- ❖ Neuroendocrinology
- ❖ Neurooncology
- ❖ Neuropharmacology and Neurotoxicology
- ❖ Brain & Ayurvedic Medicine
- ❖ Neurobiology of Sleep



### Awards for Young Neuroscientists

- ❖ Tulsabai Somani Education Trust Award
- ❖ Dr. D. M. Kar Prize
- ❖ S. S. Parmar Research Foundation Prize
- ❖ Jyotsnamoyee Raghunath Bhattacharya Prize
- ❖ Suttee Nag Prize

### Travel Awards

- ❖ Lalita and Ravindra Nath Travel Fellowship
- ❖ John Miller Travel Award

For more details please visit <http://neuroscienceacademy.org.in>  
Last date of receiving applications August 16, 2018

Category	Upto August 16, 2018	After August 16, 2018	On spot
IAN Member	INR 4000	INR 4500	INR 5000
Non-IAN member	INR 5000	INR 5500	INR 6000
Accompanying person	INR 2000	INR 2500	INR 3000
Students			
IAN Members	INR 2500	INR 3000	INR 4000
Non-IAN Members	INR 3500	INR 4000	INR 4500

Deadlines	
Early Bird Registration	August 16, 2018
Abstract Submission	August 16, 2018
Accommodation Requirement	August 16, 2018

Online Registration will start from April 15, 2018.

### Conference Secretariat

Professor S. Prasad

Biochemistry & Molecular Biology Laboratory, CAS in Zoology Institute of Science, Banaras Hindu University  
Varanasi – 221 005, Uttar Pradesh, India

Email: [ianbhu2018@gmail.com](mailto:ianbhu2018@gmail.com); [s.sprasadbhu@gmail.com](mailto:s.sprasadbhu@gmail.com); Voice: +91-9415812467

## Appointments / Honours / Awards

**Doctor Ishan K. Patro**, Head, Department of Zoology, Jiwaji University, Gwalior has joined Ravenshaw University, Cuttack as Vice Chancellor.

**Doctor Pankaj Seth**, Scientist at National Brain Research Centre, Manesar has been elected Fellow of The National Academy of Sciences, Allahabad.

**Doctor Vinay K. Khanna**, Scientist at CSIR-Indian Institute of Toxicology Research, Lucknow has been appointed as an Honorary Fellow of the Interdisciplinary Centre for Innovation in Biotechnology and Neuroscience under the World class University Project of the University of Sri Jayewardenepura, Colombo.

**Doctor Sunil Kaul**, Research Scientist at National Institute of Advanced Industrial Science & Technology (AIST), Ibaraki, Japan has been appointed as an Honorary Fellow of the Interdisciplinary Centre for Innovation in Biotechnology and Neuroscience under the World class University Project of the University of Sri Jayewardenepura, Colombo.

## IAN – IBRO Global Advocacy Program – A Glimpse

September 02, 2016



At CSIR - Indian Institute of Toxicology Research, Vishvigyan Bhavan, 31, Mahatma Gandhi Marg P.O. Box No. 80, Lucknow – 226 001, Uttar Pradesh, India

April 11, 2017



At CSIR - Indian Institute of Toxicology Research, Vishvigyan Bhavan, 31, Mahatma Gandhi Marg P.O. Box No. 80, Lucknow – 226 001, Uttar Pradesh, India

May 01, 2017



At Regional Science City, (National Council of Science Museums) Ministry of Culture, Government of India, Aliganj Extension, Sector-E, (Ekta Vihar), Lucknow – 226024, Uttar Pradesh, India

May 24, 2017



At CSIR - Indian Institute of Toxicology Research, Vishvigyan Bhavan, 31, Mahatma Gandhi Marg P.O. Box No. 80, Lucknow – 226 001, Uttar Pradesh, India



## Proforma for Nomination for the Election of Fellows

### Indian Academy of Neurosciences

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 \_\_\_\_\_



## INDIAN ACADEMY OF NEUROSCIENCES MEMBERSHIP FORM

I wish to become a member of the Indian Academy of Neurosciences. I have read the Rules and Byelaws / Constitution of the Academy and agree to abide by it.

1. Sur Name:.....First Name:.....Middle Name:.....
  2. Educational Qualification:.....
  3. Designation / Affiliation:.....
  4. Official Address:.....  
Tel:.....Fax:.....Email:.....
  5. Residential Address:.....  
.....  
Tel:.....Cell number:.....
  6. Are you actively engaged in work related to neurosciences: Yes  No
  7. Field of specialization:.....
  8. Type of membership\* desired (Tick or circle the appropriate one)  
I. Life Member  II. Associate Life Member  III. Associate Member
- (DD / Cheque Number:.....Drawn on Bank.....Date.....)
9. Nominated by:.....  
Name & Membership No:.....  
Address:.....  
.....

Signature of the applicant

Signature of the proposer

### Note:

1. Admission fees Rs. 50/- additional shall be charged for secretarial purpose and included in the fee.
2. Subscription fees\* for Life Membership and Associate Life Membership is Rs. 4000/-, Associate Membership is Rs. 500/-.
3. Category of Associate Life Membership will be upgraded to Life Membership once the candidate submits his / her Ph.D. certificate.
4. Associate Membership is valid for one calendar year and shall become due on the 1st of January each year.
5. Payment in cash/ DD or local cheque drawn in favour of **Treasurer, Indian Academy of Neurosciences** payable at Lucknow should be sent along with the duly completed form at the following address.

**Dr A.K. Agrawal**

Treasurer, Indian Academy of Neurosciences

C/o. Dr Vinay K. Khanna, Senior Principal Scientist and Professor AcSIR

Developmental Toxicology Laboratory, Systems Toxicology & Health Risk Assessment Group

CSIR - Indian Institute of Toxicology Research, Vishvgyan Bhavan, 31, Mahatma Gandhi Marg

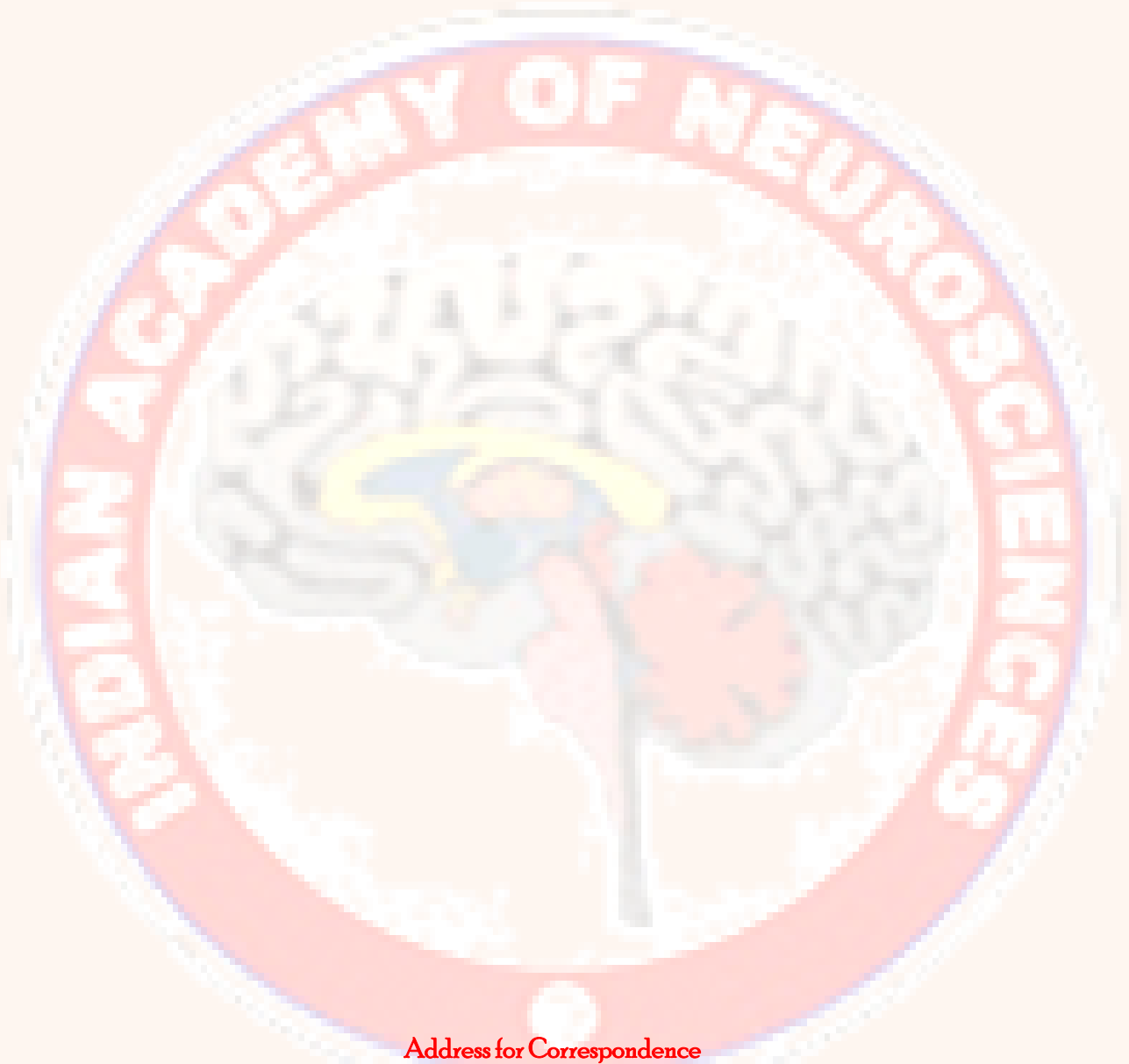
P.O. Box No. 80, Lucknow – 226 001, Uttar Pradesh, India

Email: <aka33@rediffmail.com>

**Online NEFT transfer may also be made as per following details, Punjab & Sind Bank, Branch: Hazratganj, Lucknow with IFSC Code PSIB0000166, Branch code: L0166 & Account No. 1661000050015, It is mandatory to enclose the online transaction printout of successful NEFT Transfer for verification.**

### For Office Use Only

Membership No. ....Type of Membership.....Subscription Details.....  
DD / Cheque Number:.....Drawn on Bank.....Date.....OR  
Receipt No.....Date .....(if payment made in cash).....  
Date.....Treasurer's Signature.....



**Address for Correspondence**

**Dr Vinay K. Khanna**

Secretary (HQ)

Senior Principal Scientist

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](mailto: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 Road

Manesar - 122 052, Haryana, India

**Email:** [pseth.nbrc@gov.in](mailto:pseth.nbrc@gov.in)

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