

Short Biography of Birendra N. Mallick, AINN, AUUP

Biren Mallick secured first positions in College (B.Sc. Hons; **B K S Medal**) and in Calcutta University (M.Sc.; **Univ. Gold Medal**) in Physiology; he also possesses a diploma/degree in Homoeopathic Medicine from Calcutta. Even before Ph.D. defense (AIIMS, 1986), he was selected as Asstt. Prof. at the School of Life Sciences (SLS), JNU and since 2001 he continued there until July 2021 as a full Professor of Neurobiology. He held several positions as member/chair of several National and University level committees including the Dean of the SLS/JNU during 2013-2014, policy making, selection processes, etc. Besides, teaching several courses to the M.Sc./M.Phil. students, at the SLS/JNU, starting from scratch he had established a Neurobiology research lab in general and REM sleep (REMS) research lab in particular; he had initiated REMS research in this country. Post-superannuation from JNU, since Aug 2021 he has been invited to Head the Amity Institute of Neuropsychology and Neurosciences (AINN) at Amity University Uttar Pradesh (AUUP) as Professor and Director. At AINN, in addition to administration and developing the research facilities, he teaches/shares several courses to the undergraduate and postgraduate students.

Biren Mallick's research focusses on understanding “**Neural Regulation and Functions of REMS**” (<http://www.jnu.ac.in/Faculty/bnmallick/>; <http://neurowiki2013.wikidot.com/individual:rem-sleep>). He has seamlessly used classical as well as contemporary techniques including anatomical, biochemical, cellular, electrophysiological, and modelling approaches/techniques in his research. Results from his research from molecule, cell to behaviour *in vivo* (using various model systems), *in vitro*, in primary and secondary cell line cultures as well as mathematical modelling have significantly advanced our understanding of REMS regulation and function. Findings from his studies have ***offered the most comprehensive neuroconnectomes for REMS regulation***. Further, his findings have led to propose that ***REMS has evolved in higher animal species including humans to maintain brain level of noradrenaline (NA). Most of the REMS loss-associated psycho-somatic-pathological dysfunctions and symptoms may be attributed and explained directly and/or indirectly due to elevated level of NA in the brain***. He has published ~150 research papers and book chapters and has written/edited 4 books (including ***first book on REMS*** from Marcel Dekker, USA 1999; and Cambridge Univ Press, UK, 2011) with an H-index 39 and i10 index 104. In addition to scheduled course lectures, he has delivered >200 invited lectures across the length and breadth within the country and ~100 lectures abroad. He has delivered **invited/guest/plenary/key note** lectures in 16 countries, 28 universities and in international meetings including the monthly Grand Round talk at the Dept of Neurology, Harvard Medical School and in national conferences/meetings. He was invited faculty/guest

faculty (Asst Prof./Assoc Prof./Full Professor) in many Universities in India and UCLA, USA; Harvard Univ, USA; Univ Autonoma Madrid, Spain; Wroclaw Univ, Poland. He has **chaired several sessions/symposia** in many National and International scientific meetings. He has been invited to peer review papers from ~70 national and international journals of repute. Also, he has been invited to review grants/projects from all major national funding agencies and several international funding agencies of repute (USA, France, Germany, etc). He is/was Assoc. Editor or Editorial Board member of several international journals.

Biren Mallick's lab and research have been featured several times at international levels in journals and in meetings as well as in national and state dailies, TV scientific programs/documentaries, scientific fora, etc. He has completed 24 extramurally funded projects and presently running two projects. About thirty candidates have completed Ph.D. under him, several of them have received coveted National awards in India as well as abroad (besides many other/conference awards) and are independent teachers/scientists in India and abroad. Biren Mallick has been elected as fellows of **all the three** nationally recognized Science Academies (**F.N.A.Sc., F.A.Sc., F.N.A.**), West Bengal Academy of Science & Technology (**FWAScT**) and Guha Research Conference (**GRC**). Biren Mallick has been honoured with the top national awards/recognitions including the **Shanti Swarup Bhatnagar Award (Medical Sciences, 2001); National Bioscience Award (1999); J. C. Bose National Fellowship (2010-2020); Shakuntala Amir Chand Award (1992); BK Anand Award (1984)** besides many other memorial/oration and other awards. During school-days he was conferred with **President's Scout badge** by the **President of India**. Also, he represented **District- and Divisional-School teams** for selection to the **state teams** in hockey and cricket.

His details can be found at Wikipedia address : https://en.wikipedia.org/wiki/Birendra_Nath_Mallick