



अखिल भारतीय आयुर्विज्ञान संस्थान

अन्सारी नगर, नई दिल्ली-११००२९ (भारत)

ALL INDIA INSTITUTE OF MEDICAL SCIENCES

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28th August 2024

दिनांक/Dated :

NOMINATION FOR SUN PHARMA SCIENCE FOUNDATION RESEARCH AWARD

Dr. Sheffali Gulati joined AIIMS as UG (1988) and was part of the team that started the first DM-Pediatric Neurology Program in South-Asia (2004) and has been heading the specialty since 2008; has helped in establishing such programs in SAARC countries. Envisioned, conceptualized and is currently the faculty in-charge-Centre of Excellence and Advanced Research for Childhood Neurodevelopmental Disorders: high-end diagnostic/therapeutic research, National registry, National Child Neurology Helpline(24X7;toll-free)/Tele-Consultation Services; (www.pedneuroaiims.org; E-learning modules: www.pedneuroaiims.chalopadho.com).

Major Recognitions - FRCPCH(UK) (2021), FAMS (2016), FIAP (2012), FIMSA (2009), FIANS, FNASc, Honorary Distinguished Fellow - Global Association of Physicians of Indian Origin (GAPIO), Fellowship of the Faculty of Medicine of McGill University 2006 & International Child Neurology Association-2010, Global Senior Leader-INSAR (International Society for Autism Research).

Recipient of more than 30 international/national awards- Eminent Women Scientist for Academic contribution in the field of Medicine for National Academy of Medical Sciences (NAMS, India) "Women in Medicine Award for the year 2024; Part of team AIIMS, New Delhi awarded "Best Brain Stem Death Certifying Team for North Region" at the 14th Indian Organ Donation Day (IODD) event 2024; Part of Compass Consortium; 2024 INSAR Cultural Diversity Award; Sheila Wallace award; "National Award for outstanding efforts in Science & Technology communication-innovative/traditional methods, 2021; National Women Bioscientist Award: 2021-22(Senior category), 6th Dr.IC Verma Excellence in Research Award 2018 for research in the field of Child Neurology in India; Dr. S. Janaki Memorial Oration(Gold medal) by National Academy of Medical Sciences(2016) in recognition of outstanding contribution in the field of Child Neurology; Amrut Mody Unichem Prize-2015 by ICMR for research in Epilepsy and Neurodevelopmental Disorders.

Founder Member of the Association of Child Neurology India (AOCN-India) in 2022, and is currently the President, AOCN India (2023-2025). She is also the National Delegate from India for Asian Oceanian Child Neurology Association (AOCNA). She was also the past chairperson (2021) and the National Guidelines Coordinator in the Academy of Pediatric Neurology, IAP. Currently, she is also the Founder & Chairperson of the Academy of Pediatric Neurology, Delhi 2023.

Editor-Autism (Sage Journal-IF:6.684); Vice-Chairperson, Technology Governance Steering Committee Healthcare, All India Council for Robotics and Automation (AICRA).

Has 470 publications in International and National journal; Highest Impact Factor: 96.2, Maximum citation:684; Citations-7972; H-Index-40; i10-index-171; (in top 3% researchers globally); >600 abstracts.

Research projects (NIH, MRC, UK, DBT, ICMR, DST, UNICEF, WHO, National-trust, USAID, MOHFW, AIIMS-UCL collaboration) - innovations/advocacy; has developed/validated culture sensitive screening/diagnostic instruments: Autism spectrum disorders (ASD), ADHD, Epilepsy, Neuromotor impairments (included in "RBSK" (MOHFW)/autism-certification in gazette/training master-trainers (MOSJE) (Mobile-app Pedneuroailms Diagnostics (google/ios)); prevalence of Neurodevelopmental disorders. Drug refractory epilepsy: indigenous dietary therapies-13 studies including RCTs; Neuromodulation- rTMS; epilepsy-surgery.

Developed virtual reality devices/software for assisting in rehabilitation of hemiplegic cerebral palsy; and has developed virtual reality, augmented reality, artificial intelligence-based devices and software for improving spatial and temporal prediction and joint intention & also AI-based robo-toys to improve prediction scales.


Currently, working on humanoid robots for diagnosis and management of ASD; and developing a brain-computer interface-based model in collaboration with CDAC to improve the cognition in these children; also working towards the development of an app for alternative augmentative communication.

ASD: etiopathogenesis; RCTs-Probiotics, iPSC, exosomes GFF-diet, Music therapy; sleep disturbances, neurorehabilitation (virtual/augmented-reality/Artificial-intelligence/ Robotics/textile-based/Alternative-Augmentative Communication app, screening mobile-platform, Communication-centered Parent-mediated treatment-ASD/neuro-developmental disorders in pan-India/SAARC countries).

Neuromuscular disorders: Skin-biopsy use, RCTs: DMD-Ataluren, exon-skipping; SMA-Gene therapy/ASO; Cerebral palsy: Constraint-induced movement therapy + Virtual reality/rTMS.

She has organised a webinar series of 20 webinars (with support from Global Genes Alliance), with 128 eminent panellists from India and across the world. She has been organizing weekly webinars in collaboration with AOCN-India, on various aspects of pediatric neurology across 9 special interest groups which have been created with global participation of both faculty and attendees. The virtual attendance of these >60 webinars has been around 12,000 from across 65 countries.

Her contributions in pediatric neurology are creditable and unmatched, and I strongly recommend Dr. Sheffali Gulati's name for the Sun Pharma Science Foundation Research Award for her extensive pioneering original research work.

 27/8/2024

(Prof. M. Srinivas)

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निदेशक/Director

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