

Achira Roy, MSc, PhD

Assistant Professor
Neuroscience Unit (NSU), Room No. B-201
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)
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The Neurodevelopment Lab

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Education

- 2013 **PhD, Department of Biological Sciences**
Tata Institute of Fundamental Research, Mumbai, India
Thesis Title: "*Lhx2 is necessary for patterning the forebrain midline*"
Advisor: Dr. Shubha Tole
- 2007 **Master of Science (MSc), Biophysics and Molecular Biology**
University College of Science & Technology, University of Calcutta,
Kolkata, India
77.4% (1st class)
- 2005 **Bachelor of Science (BSc), Zoology (Honours), Chemistry, Physiology**
Presidency College, University of Calcutta, Kolkata, India
71% (1st class); University Rank: **4th** (in Zoology Honours, out of 12000 students)

Research/Professional Experience

- July 2023 – current **Assistant Professor**
Neuroscience Unit
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR),
Bengaluru, India
- Sep 2021 – July 2023 **DBT-Ramalingaswami Fellow**
Neuroscience Unit
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR),
Bengaluru, India
- Sep 2013 – Aug 2021 **Postdoctoral Fellow**
(Developmental and Translational Biomedical Neuroscience)
Seattle Children's Research Institute (SCRI), Seattle, USA
Advisor: Dr. Kathleen J. Millen
- Nov 2007 – Jan 2013 **PhD Research Scholar**
(Developmental Neuroscience)
Tata Institute of Fundamental Research (TIFR), Mumbai, India
Advisor: Dr. Shubha Tole
- 2006 **Postgraduate Summer Research Fellow**
(Molecular Mycology)
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR),
Bengaluru, India under JNCASR Summer Research Fellowship
Advisor: Dr. Kaustuv Sanyal
- 2003 **Undergraduate Summer Visiting-Student Fellow**
(Anthropology and Human Genetics)
Indian Statistical Institute (ISI), Kolkata, India
under Indian Academy of Sciences (IAS) summer fellowship
Advisor: Dr. Partha P. Majumder

Areas of Specialization & Research Interests

- Developmental neurobiology (with expertise in forebrain development); neurogenetics
- Translational biomedical research using mouse models of human neurodevelopmental disorders

Citizenship: India

ORCID: <http://orcid.org/0000-0002-6274-0667>

Awards, Honours and Fellowships

2023	Ben Barres Spotlight Award Runner-up, by eLife Science Publications Ltd, USA
2022	International Research Donation towards studying rare neurodevelopmental disorders by the M-CM Network, New York, USA, in recognition of the work presented at the International Scientific Meeting for PIK3CA Related Conditions
2021 – 2026	Ramalingaswami Re-entry Fellowship Department of Biotechnology, Ministry of Science and Technology, India
2021	Emerging Leaders Scholarship CLOVES Syndrome Community of Chan Zuckerberg Initiative, to attend and present an invited talk at the International Scientific Meeting for PIK3CA Related Conditions
2020	Top 20 Winner of #StemCellfie Contest 2020 STEMCELL Technologies Inc., Canada
2017	Professional Development Award Seattle Children's Research Staff Development Committee, Seattle, USA
2016	ISDN 2016 Travel Award 21st Biennial Meeting of the International Society for Developmental Neuroscience (ISDN), Antibes-Juan les Pins, France
2014	Best Poster Award Joint Meeting of the 20th Biennial Meeting of the ISDN and the 5th Annual NeuroDevNet Brain Development Conference, Montreal, Canada
2012	International Travel Support/Grant (DBT-CTEP) for EMBO conference, Heidelberg Department of Biotechnology, Ministry of Science and Technology, India
2012	Best Poster Award 19th Biennial Meeting of the ISDN, Mumbai, India
2007 – 2012	PhD Research Scholarship Tata Institute of Fundamental Research, Mumbai, India
2007	Junior Research Fellowship in Life Sciences, under the Council of Scientific & Industrial Research (CSIR-JRF) fellowship scheme, India, <i>qualified</i>
2007	Graduate Aptitude Test in Engineering (GATE) , India, <i>qualified</i>
2006	Summer Research Fellowship Programme (SRFP) , Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), India
2005	University Rank certificate (4th in BSc, Zoology Honours) University of Calcutta, Kolkata, India
2003	Summer Visiting Student-fellowship , Indian Academy of Sciences (IAS), India

Professional Affiliations

2008 – present	Member, Society for Neuroscience (SfN)
2010 – present	Life member, Indian Academy of Neurosciences (IAN)
2018 – present	Member, Society for Developmental Biology (SDB)
2023 – present	Member, Indian Society for Developmental Biology (InSDB)

Funding

Ongoing:

1. **SERB Grant for Symposia/Conferences** to assist for organizing (INR 3,00,000)
“Nerve-storming: from molecules to behaviour”, at JNCASR, Bengaluru, India
Agency: Science & Engineering Research Board (SERB),
Department of Science and Technology (DST), Government of India
Role: Principal Investigator
Date: March 2024
2. **Intermediate Extramural Grant** (yearly sanction)
Title: Multi-parametric cell- and animal-based studies of neurologically relevant mutations in ciliary and cell cycle genes to uncover their roles in epilepsy and neurodevelopment
Agency: Indian Council of Medical Research (ICMR)
Role: Co-Investigator
Period: March 2024 – March 2028
3. **Ben Barres Spotlight Award Runner-up** (USD 3500)
Agency: eLife Science Publications Ltd, USA
Role: Principal Investigator
Date: Oct 2023 – Dec 2024
<https://elifesciences.org/inside-elifesciences/a3b3cf09/ben-barres-spotlight-awards-announcing-the-winners-for-2023>
4. **International Research Donation** to Neurodevelopment Lab, JNCASR, (USD 20,000)
towards studying rare neurodevelopmental disorders
Agency: M-CM Network, New York, USA
Role: Principal Investigator
Date: June 2022
https://www.m-cm.net/blog/post/donation_to_the_neurodevelopment_lab_of_dr_achira_roy_at_jncasr
5. **Ramalingaswami Re-entry Fellowship** (INR 1,13,90,000)
Title: Determining mechanisms of early ependymal development which when disrupted, contribute to hydrocephalus
Agency: Department of Biotechnology, Ministry of Science & Technology, India
Role: Principal Investigator
Period: Sep 2021 – Sep 2026

Completed:

1. **Hydrocephalus Association 2018 Innovator Award** (USD 50,000)
Title: Preclinical assessment of small molecule therapy for post-hemorrhagic hydrocephalus
Agency: Hydrocephalus Association, USA

Role: Co-investigator and Key personnel

Period: Dec 2018 – Apr 2020

Publications (*: corresponding author(s); †: significant publication)

Total publications: 14 peer-reviewed publications (first-author articles: **8**; *, co-corresponding author: **2**); 4 non-reviewed publications

H-index (Google scholar): 12

i10 index: 12

Manuscript submitted:

2024 Vishal RL and **Roy A***. Pediatric Epilepsy – diagnoses, mechanisms, and perspectives (*Review*)

Peer-reviewed Research Articles:

- †2021 **Roy A***, Han VZ, Bard AM, Wehle DT, Smith SEP, Ramirez JM, Kalume F, Millen KJ*. Non-synaptic cell-autonomous mechanisms underlie neuronal hyperexcitability in a genetic model of PIK3CA-driven intractable epilepsy. **Frontiers in Molecular Neuroscience**, 2021; 14:772847. PMID: 34899181, PMCID: [PMC8662737](#). Citations: 8.
- †2020 **Roy A**, Millen KJ, Kapur RP. Hippocampal granule cell dispersion: a non-specific finding in pediatric patients with no history of seizures. **Acta Neuropathologica Communications**. 2020; 8(1):54. PMID: 32317027, PMCID: [PMC7171777](#). Citations: 25.
- 2020 **Roy A***, Deng M, Aldinger KA, Glass IA, Millen KJ*. Laser Capture Micro-dissection (LCM) of neonatal mouse forebrain for RNA isolation. **Bio-protocol**. 2020; Jan 5;10(1): e3475. PMID: 32190713, PMCID: [PMC7079735](#). Citations: 2.
- 2019 Chizhikov VV*, Iskusnykh IY, Steshina EY, Fattakhov N, Lindgren AG, Shetty AS, **Roy A**, Tole S, Millen KJ*. Early dorsomedial tissue interactions regulate gyrification of distal neocortex. **Nature Communications**. 2019; 10(1):5192. PMID: 31729356, PMCID: [PMC6858446](#). Citations: 18.
- †2019 **Roy A**, Murphy RM, Deng M, MacDonald JW, Bammler TK, Aldinger KA, Glass IA, Millen KJ. PI3K-Yap activity drives cortical gyrification and hydrocephalus in mice. **eLife**. 2019; May 16;8. pii: e45961. PMID: 31094678, PMCID: [PMC6544437](#). Citations: 31.
- 2018 Godbole G, Shetty AS, **Roy A**, Chen B, Miyoshi G, Fishell G, Tole S. Hierarchical genetic interactions between FOXG1 and LHX2 regulate the formation of the cortical hem in the developing telencephalon. **Development**. 2018; 145(1): dev154583. PMID: [29229772](#); PMCID: [PMC5825872](#). Citations: 44.
- 2017 Godbole G, **Roy A**, Shetty AS, Tole S. Novel functions of LHX2 and PAX6 in the developing telencephalon revealed upon combined loss of both genes. **Neural Development**. 2017; Nov 15;12(1):19. PMID: [29141678](#), PMCID: [PMC5688701](#). Citations: 20.
- 2016 Di Donato N, Jean YY, Maga AM, Krewson BD, Shupp AB, Avrutsky MI, **Roy A**, Collins S, Olds C, Willert RA, *et al.* Jinks RN. Mutations in CRADD Result in Reduced Caspase-2-Mediated Neuronal Apoptosis and Cause Megalencephaly with a Rare Lissencephaly Variant. **American journal of human genetics**. 2016; 99(5):1117-1129. PMID: [27773430](#), PMCID: [PMC5097945](#). Citations: 63.
- †2015 **Roy A**, Skibo J, Kalume F, Ni J, Rankin S, Lu Y, Dobyns WB, Mills GB, Zhao JJ, Baker SJ, Millen KJ. Mouse models of human PIK3CA-related brain overgrowth have acutely treatable epilepsy. **eLife**. 2015; Dec 3;4. pii: e12703. PMID: [26633882](#), PMCID: [PMC4744197](#). Citations: 96.

- 2014 **Roy A**, Gonzalez-Gomez M, Pierani A, Meyer G*, Tole S*. Lhx2 regulates the development of the forebrain hem system. **Cerebral Cortex** (New York, N.Y.:1991). 2014; 24(5):1361-72. PMID: [23307637](#), PMCID: PMCID: [PMC3977624](#). Citations: 79.
- †2013 **Roy A**, de Melo J, Chaturvedi D, Thein T, Cabrera-Socorro A, Houart C, Meyer G, Blackshaw S, Tole S. LHX2 is necessary for the maintenance of optic identity and for the progression of optic morphogenesis. **The Journal of Neuroscience**: the official journal of the Society for Neuroscience. 2013; 33(16):6877-84. NIHMSID: NIHMS469004, PMID: [23595746](#), PMCID: PMC3664457. Citations: 91.
- 2013 Huilgol D, Udin S, Shimogori T, Saha B, **Roy A**, Aizawa S, Hevner RF, Meyer G, Ohshima T, Pleasure SJ, Zhao Y, Tole S. Dual origins of the mammalian accessory olfactory bulb revealed by an evolutionarily conserved migratory stream. **Nature Neuroscience**. 2013; 16(2):157-65. PMID: 23292680, doi: [10.1038/nn.3297](#). Citations: 48.
- 2012 Harel I, Maezawa Y, Avraham R, Rinon A, Ma HY, Cross JW, Leviatan N, Hegesh J, **Roy A**, Jacob-Hirsch J, Rechavi G, Carvajal J, Tole S, Kioussi C, Quaggin S, Tzahor E. Pharyngeal mesoderm regulatory network controls cardiac and head muscle morphogenesis. **Proceedings of the National Academy of Sciences of the United States of America**. 2012; 109(46):18839-44. PMID: [23112163](#), PMCID: [PMC3503185](#). Citations: 96.

Peer-reviewed Book chapter:

- 2018 Mirzaa G, **Roy A**, Dobyns WB, Millen KJ, Hevner RF. 'Hemimegalencephaly and Dysplastic Megalencephaly'. In *Developmental Neuropathology*, 2nd edition. Edited by Adle-Biassette H, Harding BN, Golden JA. Wiley Blackwell; March 2018. <https://doi.org/10.1002/9781119013112.ch5>. Citations: 27.

Other scientific publications (Invited Report/Conference Paper):

- 2023 **Roy A**. Modelling a Spectrum of Early-onset Human Neurodevelopmental Disorders: Timing and Mechanisms (S13.3). XLI Annual Meeting of the Indian Academy of Neurosciences and International Conference on BRAIN: CHEMISTRY TO COGNITION. **Annals of Neurosciences**. 2023;30(1_suppl):27. Doi: [10.1177/09727531231205772](#)
- 2023 Vishal RL and **Roy A***. Loss of NF1 Results in Cortical Malformations, Hydrocephalus and Motor Deficits in Mouse Model (P137). XLI Annual Meeting of the Indian Academy of Neurosciences and International Conference on BRAIN: CHEMISTRY TO COGNITION. **Annals of Neurosciences**. 2023;30(1_suppl):132. Doi: [10.1177/09727531231205772](#)
- 2019 **Roy A**. New mechanism driving cortical gyrification and hydrocephalus found in mice suggests scope for novel therapy. **Science X** [Invited report on Roy *et al.*, 2019, *eLife*: <https://sciencex.com/news/2019-12-mechanism-cortical-gyrification-hydrocephalus-mice.html>]
- 2015 **Roy A**, Ni J, Skibo J, Rankin S, Dobyns WB, Kalume F, Baker SJ, Zhao J, Millen KJ. Modeling human PIK3CA-related congenital brain overgrowth and epilepsy in mice. **International journal of developmental neuroscience**: the official journal of the International Society for Developmental Neuroscience. 2015; 47(Pt A):46. Doi: [10.1016/j.ijdevneu.2015.04.131](#). Citations: 3.

Manuscripts in preparation:

1. **Roy A** (as part of consortium). Spatial and cell type-related transcriptional landscape in fetal Trisomy 21 Down's syndrome patients reveal novel distinct features. (*Original Research Article*)

Editorial service

2023 – current Assistant Content Editor, *Bio-protocol* journal

Reviewer for International Journals:

1. eLife
2. Nature Communications
3. Acta Neuropathologica Communications
4. The Journal of Pathology
5. Communications Biology
6. Bio-protocol
7. Seizure: European Journal of Epilepsy – *The official journal of Epilepsy Action*
8. Frontiers in Cell and Developmental Biology
9. European Journal of Neuroscience – *The official journal of the Federation of European Neuroscience Societies (FENS)*
10. International Journal of Molecular Sciences
11. Proceedings of the Indian National Science Academy

Teaching Experience

Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR):

- **JNS-206** (3 credits): *Brain development and disorders*. Instructor, Spring 2023
(Designed this graduate-level course, ~20 students from multiple Units took the course)
- **JNL-201** (4 credits): *Introduction to Neuroanatomy*. Co-instructor, Fall 2023
- **JNL-202** (4 credits): *Introduction to Neurobiology-I*. Co-instructor, Fall 2023
- **JNL-203** (4 credits): *Introduction to Neurobiology-II*. Course Coordinator and Instructor, Spring 2024.
- Other Teaching Responsibilities
 - Summers in the POBE program at JNCASR – 1 week each since 2024 (*current*)

Before JNCASR:

2007 – 2011 *Teaching assistant*, graduate-level practical course on "Embryonic mouse brain dissection",
Tata Institute of Fundamental Research (TIFR), Mumbai, India

2011 *Instructor*, Graduate-level academic course on "Techniques in Molecular Biology/
Research Tools (DBS 1006)", TIFR, Mumbai, India

Academic Service:

- Serving as **Integrated PhD exam coordinator** at JNCASR, Bengaluru, India
- Serving as **Thesis committee member** at Vellore Institute of Technology (VIT), Vellore, India
- Serving as **PhD thesis external examiner** at The University of Trans-Disciplinary Health Sciences and Technology (TDU), Bengaluru, India
- Served as **MSc thesis external examiner** at Tata Institute of Fundamental Research (TIFR), Mumbai

Research Mentoring Experience

As Principal Investigator (at JNCASR, India):

MS (Research):

- Vishal R Lolam 2023

- Graduate Student(s): Vishal R Lolam (Int-PhD 2020 – MS Research Report submitted in March 2023), Yashasvi Sharma (PhD 2023)
- Long-term Visiting intern: Aakanksha Dharmapuri, VIT (under JNCASR Long-term Visiting Student Programme (LVSP), Jan-June 2023)
- Short-term trainees:
 - JNCASR Summer Research Fellowship Programme (SRFP): Venkateswaran M (2022), Kunal Rajput (2023), Dhruv Singh Tomar (2024)
 - Summer Internship: Keerthana Ravishankar (2022)
- R&D assistants: Shatabdi Choudhury (Jan – Jul 2022), NS Neeta (Aug 2022 – June 2023), Payel Pramanik (July – Oct 2023), Aqsa Yashfeen (Nov 2023 – May 2024)
- Students undergone lab rotations: Aman Sharma, Vishal R Lolam (Int-PhD 2020); Priyadarshini Ghosh (Int-PhD 2021); Asima Mishra, Soumyadeep Dey (Int-PhD 2022 batch), Savyasachi Banerji (Int-PhD 2023 batch).

Before joining JNCASR, I mentored the following trainees:

As postdoc (at SCHRI, USA):

- Undergraduates: Rory M. Murphy (2017-2020); Kevin Z. Zhu (2016); Taylor Faubion (2014)

As PhD scholar (at TIFR, India):

- Postgraduates: Veena Kinare (2010-2011); Riyad Seervai (2010); Akanksha Agarwal (2008-2010)

Conference/Workshop organized

2024 Primary organizer of “**Nerve-storming: from molecules to behaviour**” symposium at Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru, India

Selected Invited Talks

2024	Sudha Gopalakrishnan Brain Centre, IIT Madras, Chennai (<i>upcoming</i>)
2024	Biennial Meeting of Indian Society for Developmental Biology (InSDB) 2024, held at the NCBS-InStem campus, Bengaluru, India
2024	Manipal Genetics Update VII international event on “Cellular and Animal Models for Rare Genetic Diseases”, Manipal Academy of Higher Education (MAHE), Manipal, India
2023	XLI Annual Meeting of the Indian Academy of Neurosciences and International Conference on ‘Brain: Chemistry to Cognition’, Gwalior, India
2022	MBGU-NSU Day Academic Talk, titled “ <i>Brain Development and disorders – a beginning towards bridging gaps</i> ”, Jawaharlal Nehru Center for Advanced Scientific Research (JNCASR), Bengaluru, India
2022	Sci-ROI@India Virtual Launch Event, Science Showcase session, online
2021	In-House Symposium, JNCASR, Bengaluru, India
2021	International Scientific Meeting for PIK3CA Related Conditions, USA
2020	4th Annual Postdoc and Student Research Symposium, Seattle Children’s Research Institute, Seattle, USA
2020	International online conference “Class I PI3K: disease modelling and drug targeting”
2020	Young Investigator Meeting 2020, Mahabalipuram, India
2020	Tata Institute of Fundamental Research (TIFR), Mumbai, India
2019	Hydrocephalus Association Research Workshop, St. Louis, MO, USA
2019	Washington University School of Medicine, St. Louis, MO, USA

2017	Indian Institute of Science (IISc), Center for Neuroscience, Bengaluru, India
2017	Indian Institute of Technology (IIT) Kanpur, Kanpur, India
2017	Indian Institute of Science Education and Research (IISER) Pune, Pune, India
2017	National Centre for Cell Science, Pune, India
2017	National Brain Research Centre (NBRC), Gurgaon, India
2017	TIFR Center for Interdisciplinary Sciences, Hyderabad, India
2017	Centre for Cellular and Molecular Biology (CCMB), Hyderabad, India
2015	JNCASR, Bengaluru, India
2015	Neurodevelopmental Disorders Research Consortium, Seattle, USA
2014	"Brain development and congenital neurodevelopmental disorders" symposium, Seattle, USA
2013	University College of Science & Technology, Department of Biophysics, Molecular Biology and Bioinformatics, Kolkata, India
2012	King's College London, MRC Centre for Developmental Neurobiology, London, UK
2012	University College London (UCL) Institute of Child Health, London, UK
2007	National Symposium on Current Trends in Zoological Research, Kolkata, India

Poster presentations at International Conferences

2021	23rd Biennial Meeting of the International Society of Developmental Neuroscience (ISDN2021), <i>online</i>
2020	American Epilepsy Society (AES) Annual Meeting, <i>online</i>
2020	Young Investigator Meeting 2020, Mahabalipuram, India
2018	Society for Developmental Biology 77th Annual Meeting, Portland, OR, USA
2018	Keystone Symposia Conference, State of the Brain: Genetic Dissection of Brain Circuits and Behavior in Health and Disease, Keystone, USA
2017	Cortical Development Conference 2017, Chania, Greece
2016	21st Biennial Meeting of ISDN, Juan les Pins-Antibes, France
2015	Society for Neuroscience 45th Annual Meeting 2015, Chicago, USA
2014	Joint Meeting of the 20th Biennial Meeting of the ISDN and the 5th Annual NeuroDevNet Brain Development Conference, Montreal, Canada
2012	Society for Neuroscience 42nd Annual Meeting 2012, New Orleans, USA
2012	EMBO Conference Series Morphogenesis and Dynamics of Multicellular Systems, EMBL Heidelberg, Germany
2012	19th Biennial Meeting of the ISDN, Mumbai, India

Conferences/Workshops attended

2020	Science and Research Opportunities in India (Sci-ROI) 5 th Annual Event, <i>online</i>
2020	Society for Developmental Biology 79 th Annual Meeting, USA, <i>online</i>
2020	The Monsoon Brain Meeting, India, <i>online</i>
2019	Society for Neuroscience 49 th Annual Meeting 2019, Chicago, USA
2019	24 th Summer Institute in Statistical Genetics: "Introduction To R", University of Washington, USA
2015	National Institutes of Health Professional Grant Development Workshop, Seattle, USA
2009	The Fourth Bangalore Benny Shilo Course in Developmental Biology, Bangalore, India
2008	"Model Organisms and Stem Cells in Development, Regeneration and Disease" International Symposium, Bangalore, India
2008	SERC School in Neurosciences, Nagpur, India
2007	International Conference on "Chromosomes to Neurons", Kolkata, India
2006	National Seminar on Transgenic Plants: Prometheus Unbound, Kolkata, India
2006	Annual Meeting of the Indian Biophysical Society, Kolkata, India

Other academic activities

- 2023 Organized academic trip for 29 trainees of JNCASR to the NIMHANS Brain Bank, along with colleague Prof Sheeba Vasu, as a part of the Neuroanatomy Course (JNS-201)
- 2022 Organized “*Brain Development and disorders*” demonstration table for high-school students at JNCASR on National Science Day, India
- 2022 Participated and interacted with the JNCASR team on GATI (Gender Advancement for Transforming Institutions) Pilot Project, initiated by the Department of Science & Technology.
- 2013 Contributed original illustrations to book chapter “Telencephalon Patterning” by Tole S. and Hebert J. in “*Cellular Migration and Formation of Neuronal Connections: Comprehensive Developmental Neuroscience*” (2013), John Rubenstein and Pasko Rakic (Eds). Academic Press. ISBN: 978-0-12-397265-1
- 2010 Co-organizer, “International Speaker Seminar” series at TIFR, India under guidance of Prof. Veronica Rodrigues
- 2009 – 2011 Organizer and moderator, Departmental journal club at TIFR, India

In News

- 2015 Seattle Children’s Researchers Identify Drug That Could Suppress Intractable Epilepsy
<https://www.newswise.com/articles/seattle-children-s-researchers-identify-drug-that-could-suppress-intractable-epilepsy>
- 2022 Donation to the Neurodevelopment Lab of Dr Achira Roy at JNCASR to study PIK3CA brain disorders https://www.m-cm.net/blog/post/donation_to_the_neurodevelopment_lab_of_dr_achira_roy_at_jncasr
- 2023 New study offers hope for children suffering from intractable epilepsy.
<https://dst.gov.in/new-study-offers-hope-children-suffering-intractable-epilepsy>
- 2023 Ben Barres Spotlight Awards: Announcing the winners for 2023
<https://elifesciences.org/inside-elif/a3b3cf09/ben-barres-spotlight-awards-announcing-the-winners-for-2023>