Mainak **Bardhan**

Doctoral Researcher · University of Miami, Miller School of Medicine, Florida, USA
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· Gender: Male ·Language: English, Bengali, Hindi ·Nationality: Indian

RESEARCH INTEREST

Genetics, genomics, and pathology of human diseases with a focus on precision medicine and public health.

EDUCATION

AUGUST 2024-ONGOING

PhD (DOCTOR OF PHILOSOPHY In Human Genetics and Genomics), Howard Hughes Medical Institute,University of Miami, Miller School Of Medicine, Florida, USA

- Working at intersection genetics,genomics,epigenetics,proteomics & biochemistry under the joint mentorship of Prof. Danny Reinberg, PhD, and Prof. Ramin Shiekhattar, PhD at The John P. Hussman Institute for Human Genomics (HIHG)

SEPTEMBER 2014-MAY 2020

MBBS(Bachelor of Medicine & Bachelor of Surgery), Pt. Deendayal Upadhyay Memorial Health Sciences And Ayush University Of Chhattisgarh

PT. JAWAHARLAL NEHRU MEMORIAL MEDICAL COLLEGE, RAIPUR & DR. BHIM RAO AMBEDKAR MEMORIAL HOSPITAL,INDIA

- Percentage:69.06; CGPA 3.84
- Gold Medal And Distinction in Anatomy
- USA equivalency First professional degree in medicine (Doctor of Medicine) https://badges.wes.org/Evidence?i=68569991-5315-45d4-bdfb-2ff63f28b830&type=us

WORK EXPERIENCE

22ND JUNE 2023 – 25TH JULY 2024

RESEARCH ASSOCIATE 3, MIAMI CANCER INSTITUTE,FLORIDA,USA

- Clinical outcomes research in gliomas and brain metastases, with involvement in clinical trials.

13TH SEPTMEBER 2021 – 31ST MAY 2023

SCIENTIST B(MEDICAL), ICMR-NATIONAL INSTITUTE OF CHOLERA AND ENTERIC DISEASES

- Tenure Track Faculty recruited by Indian Council of Medical Research(ICMR) Government of India, apex body of India and one of the oldest research bodies in the world.
- Working in Molecular Microbiology with a focus on Bacterial Genetics of *Campylobacter* which is one of the most common causes of Guillain-Barré Syndrome.

- Official Page https://niced.org.in/scientists/NICEDScientists/MainakBardhan.htm

8TH JUNE 2020-12TH SEPTEMBER 2021

SENIOR RESEARCH FELLOW, NATIONAL INSTITUTE OF MENTAL HEALTH AND NEUROSCIENCES (NIMHANS), BENGALURU,KARNATAKA INDIA

- Worked to develop the ICMR National registry for Rare and other Inherited disorders (NRROID).
- Attended neuromuscular disorder clinics and worked in the neuromuscular lab, Department of Human genetics, to establish the Phenotype genotype correlation using NGS pathology, electrophysiological studies

1ST JULY 2019-23RD AUGUST 2019

AMGEN SCHOLAR, TSINGHUA UNIVERSITY, BEIJING,CHINA

- Transporter Pharmacology & Toxicology Lab In School Of Pharmaceutical Sciences and worked on Solute Carrier Transporter and potential drug target for neurodegenerative disorder http://tsinghuaamgenscholars.com/AmgenScholars/2019ProgramBrochure.pdf

10TH MARCH 2019-1ST APRIL 2019

MEDICAL STUDENT OBSERVER, NATIONAL INSTITUTE OF MENTAL HEALTH AND NEUROSCIENCES (NIMHANS), BENGALURU, KARNATAKA, INDIA

- Observership in Autonomic lab assessing autonomic status in various Neurological disorders
- Observership in Human Sleep Research laboratory assisting a project on various asanas on human cognition and memory
- Observership in cell culture and stem cell biology lab on a project of ALS

OCTOBER 2018,DECEMBER 2018

MEDICAL STUDENT RESEARCHER, CSIR-IGIB, NEWDELHI,INDIA

- Gained insights on Next Generation sequencing in Clinical diagnosis and rare diseases.
- Learnt about using zebra fish as model for studying various human diseases.

MAY 2018

MEDICAL STUDENT RESEARCH TRAINEE, CSIR-CCMB, HYDERABAD, TELENGANA, INDIA

- Hands on training on various molecular techniques involved in wet lab experiments.
- Assisted a project to study role of karyotyping in the diagnosis of congenital disorders

2015-2017

MEDICAL STUDENT RESEARCHER, PT JNM MEDICAL COLLEGE, RAIPUR, CHHATTISGARH, INDIA

- Assess the relationship between various haematological factors resulting in vaso-occlusion and increased viscosity in sickle cell anaemia and osteonecrosis of femoral head(OFH).
- Sickle cell anemia and its role in growth and development in the pediatric age group.
- Serum proteome profiling in sickle cell crisis patients.

AWARDS

SCIENCE

- Certificate of Excellence, Department of Science and Technology(DST),Faculty Training program,Proteomics, Indian Institute of Technology(IIT), Bombay 2021
- ICMR Nurturing Clinical Scientists Scholarship 2020-21.
- Bursary winner XXV World Congress of Neurology (WCN 2021).
- Amgen scholars program scholarship awardee -2019.
- South Asian Medical Students' Association International conference poster presentation winner 19.
- Developing Indian Physician scientist workshop 2018 CSIR-IGIB, Newdelhi, INDIA
- Medical student research and training-2018 in CSIR-CCMB, Hyderabad
- Top 10 best oral paper presentations in the 25th International student congress of biomedical sciences 2018, UMCG, Groningen, Netherlands.
- Nobel Prize Series India, Department Of Biotechnology India,2017 Ideathon winner and delegate of the 1st Noble Prize series of India
- Indian Council of Medical Research, New Delhi, India short term studentship 2015-2016
- 17TH National Children's Science congress top 100 science project awardee.2009
- Bal Shree zonal level camp at creative scientific innovation category 2010

EDUCATION, ART, LITERATURE, LEADERSHIP

- Rhodes Scholarship Pre finalist India 2020
- Elsevier Student ambassador and mentor South Asia since 2016
- Plexus MD management internship 2017
- ISCOMS and UMCG, Groningen International student ambassador
- Leiden International Medial student conference ambassador 2017-18
- Gold medal winner in 6th International Child Art Exhibition-2008.

PUBLICATIONS

Full list of publications available through Google Scholar (**100+ publications, 7000+ citations,** and **h-index of 28**) at https://scholar.google.com/citations?user=VCagZtIAAAAJ&hl=en

ORIGINAL ARTICLES

*** - CORRESPONDING AUTHOR**

1. **Bardhan M,** Polavarapu K, Baskar D, Preethish-Kumar V, Vengalil S, Nashi S, Ganaraja VH, Sharma D, Kulanthaivelu K, Nandeesh BN, Nalini A. **Identification Of A Novel Intronic Mutation In Vma21 Associated With A Classical Form Of X-Linked Myopathy With Autophagy.** *Global medical genetics.* 2024 May 10;11(2):167-174. doi: 10.1055/s-0044-1786815. PMID: 38736558; PMCID: PMC11087142.

2. **Bardhan M,** Anjanappa RM, Polavarapu K, Preethish-Kumar V, Vengalil S, Nashi S, Sanga S, Padmanabh H, Valasani RK, Nishadham V, Keerthipriya M, Geetha TS, Ramprasad V, Arunachal G, Thomas PT, Acharya M, Nalini A. **Clinical, genetic profile and disease progression of sarcoglycanopathies in a large cohort from india: high**

prevalence of *SGCB* c.544A > C. *Neurogenetics.* 2022 Apr 13. doi: 10.1007/s10048-022-00690-9. Epub ahead of print. PMID: 35416532. https://doi.org/10.1007/s10048-022-00690-9

3. **Bardhan M,** Polavarapu K, Bevinahalli NN, Veeramani PK, Anjanappa RM, Arunachal G, Shingavi L, Vengalil S, Nashi S, Chawla T, Nagabushana D, Mohan D, Horvath R, Nishino I, Atchayaram N. **Megaconial congenital muscular dystrophy secondary to novel *CHKB* mutations resemble atypical rett syndrome.** *J Hum Genet*. 2021 Mar 12. doi: 10.1038/s10038-021-00913-1. Epub ahead of print. Erratum in: J Hum Genet. 2021 Mar 26;: PMID: 33712684. https://doi.org/10.1038/s10038-021-00913-1

4. Polavarapu K*, **Bardhan M***, Anjanappa RM, Vengalil S, Preethish-Kumar V, Shingavi L, Chawla T, Nashi S, Mohan D, Arunachal G, Geetha TS, Ramprasad V, Nalini A. **Nemaline Rod/Cap Myopathy Due to Novel Homozygous *MYPN* Mutations: The First Report from South Asia and Comprehensive Literature Review.** *J Clin Neurol.* 2021 Jul;17(3):409-418. doi: 10.3988/jcn.2021.17.3.409. PMID: 34184449; PMCID: PMC8242322. https://doi.org/10.3988/jcn.2021.17.3.409

5. Nishadham V, **Bardhan M**, Polavarapu K, Vengalil S, Nashi S, Menon D, Ganaraja VH, Preethish-Kumar V, Valasani RK, Huddar A, Unnikrishnan GK, Thomas A, Saravanan A, Kulanthaivelu K, Nalini A, Nandeesh BN. **Thymic Lesions in Myasthenia Gravis: A Clinicopathological Study from India.** *J Neuromuscul Dis.* 2022 Apr 12. doi: 10.3233/JND-210785. Epub ahead of print. PMID: 35431258. https://doi.org/10.3233/JND-210785

6. Nashi S, Polavarapu K, **Bardhan M**, Anjanappa RM, Preethish-Kumar V, Vengalil S, Padmanabha H, Geetha TS, Prathyusha PV, Ramprasad V, Joshi A, Chawla T, Unnikrishnan G, Sharma P, Huddar A, Uppilli B, Thomas A, Baskar D, Mathew S, Menon D, Arunachal G, Faruq M, Thangaraj K, Nalini A. **Genotype-phenotype correlation and natural history study of dysferlinopathy: a single-centre experience from India.** *Neurogenetics.* 2023 Jan;24(1):43-53. doi: 10.1007/s10048-022-00707-3. Epub 2022 Dec 29. PMID: 36580222. https://doi.org/10.1007/s10048-022-00707-3

7. Nagabushana D, Polavarapu K, **Bardhan M**, Arunachal G, Gunasekaran S, Preethish-Kumar V, Anjanappa RM, Thomas P, Sadasivan A, Vengalil S, Nashi S, Chawla T, Warrier M, Keerthipriya M, Raju S, Mohan D, Nalini A. **Comparison of The Carrier Frequency of Pathogenic Variants of DMD Gene in an Indian Cohort.** *Journal of neuromuscular diseases.* 2021;8(4):525-535. doi: 10.3233/JND-210658. PMID: 33843695. https://doi.org/10.3233/JND-210658

8. Van Haute L, O'Connor E, Díaz-Maldonado H, Munro B, Polavarapu K, Hock DH, Arunachal G, Athanasiou-Fragkouli A, **Bardhan M**, Barth M, Bonneau D, Brunetti-Pierri N, Cappuccio G, Caruana NJ, Dominik N, Goel H, Helman G, Houlden H, Lenaers G, Mention K, Murphy D, Nandeesh B, Olimpio C, Powell CA, Preethish-Kumar V, Procaccio V, Rius R, Rebelo-Guiomar P, Simons C, Vengalil S, Zaki MS, Ziegler A, Thorburn DR, Stroud DA, Maroofian R, Christodoulou J, Gustafsson C, Nalini A, Lochmüller H, Minczuk M, Horvath R. ***TEFM* variants impair mitochondrial transcription causing childhood-onset neurological disease.** *Nature communications.* 2023 Feb 23;14(1):1009. doi: 10.1038/s41467-023-36277-7. PMID: 36823193. https://doi.org/10.1038/s41467-023-36277-7

9. Pellerin D, Danzi MC, Wilke C, Renaud M, Fazal S, Dicaire MJ, Scriba CK, Ashton C, Yanick C, Beijer D, Rebelo A, Rocca C, Jaunmuktane Z, Sonnen JA, Larivière R, Genís D, Molina Porcel L, Choquet K, Sakalla R, Provost S, Robertson R, Allard-Chamard X, Tétreault M, Reiling SJ, Nagy S, Nishadham V, Purushottam M, Vengalil S, **Bardhan M**, Nalini A, Chen Z, Mathieu J, Massie R, Chalk CH, Lafontaine AL, Evoy F, Rioux MF, Ragoussis J, Boycott KM, Dubé MP, Duquette A, Houlden H, Ravenscroft G, Laing NG, Lamont PJ, Saporta MA, Schüle R, Schöls L, La Piana R, Synofzik M, Zuchner S, Brais B. ***Deep Intronic FGF14 GAA Repeat Expansion in Late-Onset Cerebellar Ataxia.*** *The New England journal of medicine.* 2023 Jan 12;388(2):128-141. doi: 10.1056/NEJMoa2207406. Epub 2022 Dec 14. PMID: 36516086. https://doi.org/10.1056/NEJMoa2207406

10. Ganaraja VH, Polavarapu K, **Bardhan M**, Preethish-Kumar V, Leena S, Anjanappa RM, Vengalil S, Nashi S, Arunachal G, Gunasekaran S, Mohan D, Raju S, Unnikrishnan G, Huddar A, Ravi-Kiran V, Thomas PT, Nalini A**. Disease Progression and Mutation Pattern in a Large Cohort of LGMD R1/LGMD 2A Patients from India.** *Global medical genetics.* 2021 Nov 9;9(1):34-41. doi: 10.1055/s-0041-1736567. PMID: 35169782; PMCID: PMC8837411. https://doi.org/10.1055/s-0041-1736567

11. Siddiqui S, Polavarapu K, **Bardhan M,** Preethish-Kumar V, Joshi A, Nashi S, Vengalil S, Raju S, Chawla T, Leena S, Mathur A, Nayak S, Mohan D, Shamim U, Prasad C, Lochmüller H, Faruq M, Nalini A. **Distinct and Recognisable Muscle MRI Pattern in a Series of Adults Harbouring an Identical *GMPPB* Gene Mutation.** *Journal of neuromuscular diseases.* 2022;9(1):95-109. doi: 10.3233/JND-200628. PMID: 34633329. https://doi.org/10.3233/JND-200628

12. Huddar A, Polavarapu K, Preethish-Kumar V, **Bardhan M**, Unnikrishnan G, Nashi S, Vengalil S, Priyadarshini P, Kulanthaivelu K, Arunachal G, Lochmüller H, Nalini A. **Expanding the Phenotypic Spectrum of *ECEL1*-Associated Distal Arthrogryposis.** *Children (Basel).* 2021 Oct 13;8(10):909. doi: 10.3390/children8100909. PMID: 34682174; PMCID: PMC8534696. https://doi.org/10.3390/children8100909

13. Beijer D, Polavarapu K, Preethish-Kumar V, **Bardhan M**, Dohrn MF, Rebelo A, Züchner S, Nalini A. **Homozygous N-terminal missense variant in *PLEKHG5* associated with intermediate CMT: A case report.** *Journal of neuromuscular diseases.* 2022;9(2):347-351. doi: 10.3233/JND-210716. PMID: 34897098. https://doi.org/10.3233/JND-210716

14. Chawla T, Preethish-Kumar V, Polavarapu K, Vengalil S, **Bardhan M,** Puri R, Verma J, Christopher R, Supriya M, Nashi S, Prasad C, Nadeesh B, Nalini A. **Late Onset Pompe Disease with Novel Mutations and Atypical Phenotypes.** *Journal of neuromuscular diseases.* 2022;9(2):261-273. doi: 10.3233/JND-210728. PMID: 34864681. https://doi.org/10.3233/JND-210728

15. Vengalil S, Polavarapu K, Preethish-Kumar V, Nashi S, Arunachal G, Chawla T, **Bardhan M,** Mohan D, Christopher R, Bevinahalli N, Kulanthaivelu K, Nishino I, Faruq M, Nalini A. **Mutation Spectrum of Primary Lipid Storage Myopathies.** *Annals of Indian Academy of Neurology.* 2022 Jan-Feb;25(1):106-113. doi: 10.4103/aian.aian_333_21. Epub 2022 Feb 1. PMID: 35342266; PMCID: PMC8954319. https://doi.org/10.4103/aian.aian_333_21

16. Polavarapu K, Mathur A, Joshi A, Nashi S, Preethish-Kumar V, **Bardhan M,** Sharma P, Parveen S, Seth M, Vengalil S, Chawla T, Shingavi L, Shamim U, Nayak S, Vivekanand A, Töpf A, Roos A, Horvath R, Lochmüller H, Nandeesh B, Arunachal G, Nalini A, Faruq M. **A founder mutation in the GMPPB gene [c.1000G > A (p.Asp334Asn)] causes a mild form of limb-girdle muscular dystrophy/congenital myasthenic syndrome (LGMD/CMS) in South Indian patients.** *Neurogenetics.* 2021 Oct;22(4):271-285. doi: 10.1007/s10048-021-00658-1. Epub 2021 Aug 1. PMID: 34333724. https://doi.org/10.1007/s10048-021-00658-1

17. Sanga S, Ghosh A, Kumar K, Polavarapu K, Preethish-Kumar V, Vengalil S, Nashi S, **Bardhan M,** Arunachal G, Raju S, Gayathri N, Biswas NK, Chakrabarti S, Nalini A, Roy S, Acharya M. **Whole-exome analyses of congenital muscular dystrophy and congenital myopathy patients from India reveal a wide spectrum of known and novel mutations.** *European journal of neurology.* 2021 Mar;28(3):992-1003. doi: 10.1111/ene.14616. Epub 2020 Nov 26. PMID: 33124102. https://doi.org/10.1111/ene.14616

18. Polavarapu K, Vengalil S, Preethish-Kumar V, Arunachal G, Nashi S, Mohan D, Chawla T, **Bardhan M**, Nandeesh B, Gupta P, Gowda VK, Lochmüller H, Nalini A. **Recessive VAMP1 mutations associated with severe congenital myasthenic syndromes - A recognizable clinical phenotype.** *European journal of paediatric neurology : EJPN : official journal of the European Paediatric Neurology Society.* 2021 Mar;31:54-60. doi: 10.1016/j.ejpn.2021.02.005. Epub 2021 Feb 16. PMID: 33631708. https://doi.org/10.1016/j.ejpn.2021.02.005

19. Rajula RR, Saini J, Unnikrishnan G, Vengalil S, Nashi S, **Bardhan M,** Huddar A, Chawla T, Sindhu DM, Ganaraja VH, Polavarapu K, Preethish-Kumar V, Kandavel T, Sathyaprabha TN, Nalini A. **Diaphragmatic ultrasound: Prospects as a tool to assess respiratory muscle involvement in amyotrophic lateral sclerosis.** *Journal of clinical ultrasound : JCU.* 2022 Jan;50(1):131-135. doi: 10.1002/jcu.23069. Epub 2021 Oct 5. PMID: 34609007. https://doi.org/10.1002/jcu.23069

20. Rajula RR, Saini J, Unnikrishnan G, Vengalil S, Nashi S, **Bardhan M**, Huddar A, Chawla T, Sindhu DM, Ganaraja VH, Polavarapu K, Preethish-Kumar V, Kandavel T, Nalini A. **Muscle ultrasonography in detecting fasciculations: A noninvasive diagnostic tool for amyotrophic lateral sclerosis.** *Journal of clinical ultrasound : JCU.* 2022 Feb;50(2):286-291. doi: 10.1002/jcu.23084. Epub 2021 Oct 15. PMID: 34653263. https://doi.org/10.1002/jcu.23084

21. Girija MS, Tiwari R, Vengalil S, Nashi S, Preethish-Kumar V, Polavarapu K, Kulanthaivelu K, Arbind A, **Bardhan M**, Huddar A, Unnikrishnan G, Kiran VR, Chawla T, Nandeesh B, Nagaraj C, Nalini A. **PET-MRI in idiopathic inflammatory myositis: a comparative study of clinical and immunological markers with imaging findings.** *Neurol Res Pract.* 2022 Oct 10;4(1):49. doi: 10.1186/s42466-022-00213-9. PMID: 36210472; PMCID: PMC9549636.

22. Sindhu DM, Huddar A, Saini J, Vengalil S, Nashi S, **Bardhan M**, Unnikrishnan G, Rajula RR, Kandavel T, Bathala L, Visser LH, Nalini A. **Cross-Sectional Area Reference Values of**

Nerves in the Upper and Lower Extremities using Ultrasonography in the Indian Population. *Ann Indian Acad Neurol.* 2022 May-Jun;25(3):449-456. doi: 10.4103/aian.aian_727_21. Epub 2022 Apr 1. PMID: 35936619; PMCID: PMC9350782.

23. Nishadham V, Rao S, Saravanan A, Kulanthaivelu K, Vengalil S, Venkatappa HA, Valasani RK, **Bardhan M**, Pruti N, Nalini A, Mahadevan A. **Inflammatory myofibroblastic tumors: A short series with an emphasis on the diagnostic and therapeutic challenges.** *Clin Neuropathol.* 2023 Apr 13. doi: 10.5414/NP301540. Epub ahead of print. PMID: 37051870. https://doi.org/10.5414/NP301540

24. Inbaraj, G., Arjun, K., Meghana, A., Preethish-Kumar, V., John, A. P., Polavarapu, K., Nashi, S., Sekar, D., Udupa, K., Prathuysha, P. V., Prasad, K., **Bardhan, M.,** Raju, T. R., Kramer, B. W., Nalini, A., & Sathyaprabha, T. N. (2023). **Neuro-Cardio-Autonomic Modulations in Children with Duchenne Muscular Dystrophy.** *Journal of neuromuscular diseases,* 10(2), 227–238. https://doi.org/10.3233/JND-221621

25. Ghosh D, Chowdhury G, Samanta P, Shaw S, Deb AK, **Bardhan M**, Manna A, Miyoshi SI, Ramamurthy T, Dutta S, Mukhopadhyay AK. **Characterization of diarrhoeagenic Escherichia coli with special reference to antimicrobial resistance isolated from hospitalized diarrhoeal patients in Kolkata (2012-2019), India.** *Journal of applied microbiology.* 2022 Jun;132(6):4544-4554. doi: 10.1111/jam.15548. Epub 2022 Apr 6. PMID: 35338762. https://doi.org/10.1111/jam.15548

26. Thakrar V, **Bardhan M,** Chakraborty N. **Early intervention in psychosis: An analysis of the characteristics and service needs of patients over the age of 35.** *Early intervention in psychiatry.* 2022 Jun 23. doi: 10.1111/eip.13318. Epub ahead of print. PMID: 35739609. https://doi.org/10.1111/eip.13318

27. Hesarur N, **Bardhan M,** Taallapalli A, Nashi S, Udupi GA, Kulkarni GB. **Lichtenstein–Knorr syndrome: A rare case of ataxia with sensorineural hearing loss.** *Annals of Indian Academy of Neurology.* Sep-Oct;25(5):970-973. doi: 10.4103/aian.aian_288_22. Epub 2022 Oct 31. PMID: 36561016; PMCID: PMC9764880. https://doi.org/10.4103/aian.aian_288_22

28. Juneja K, Chauhan A, Shree T, Roy P, **Bardhan M**, Ahmad A, Pawaiya AS, Anand A. **Self-medication prevalence and associated factors among adult population in Northern India: A community-based cross-sectional study.** *SAGE open medicine.* 2024 Mar 25;12:20503121241240507. doi: 10.1177/20503121241240507. PMID: 38533200; PMCID: PMC10964435. https://doi.org/10.1177/20503121241240507

29. Girija MS, Menon D, Polavarapu K, Preethish-Kumar V, Vengalil S, Nashi S, Keertipriya M, **Bardhan M**, Thomas PT, Kiran VR, Nishadham V, Sadasivan A, Huddar A, Unnikrishnan GK, Inbaraj G, Krishnamurthy A, Kramer BW, Sathyaprabha TN, Nalini A. **Qualitative and Quantitative Electrocardiogram Parameters in a Large Cohort of Children with Duchenne Muscle Dystrophy in Comparison with Age-Matched Healthy Subjects: A Study from South India.** *Annals of Indian Academy of Neurology.* 2024 Jan-

Feb;27(1):53-57. doi: 10.4103/aian.aian_989_23. Epub 2024 Feb 6. PMID: 38495238; PMCID: PMC10941898

30. Chowdhury G, Debnath F, **Bardhan M**, Deb AK, Bhuina R, Bhattacharjee S, Mondal K, Kitahara K, Miyoshi SI, Dutta S, Mukhopadhyay AK. **Foodborne Outbreak by Salmonella enterica Serovar Weltevreden in West Bengal, India.** *Foodborne pathogens and disease.* 2024 Apr;21(4):220-227. doi: 10.1089/fpd.2023.0064. Epub 2024 Jan 8. PMID: 38190304. https://doi.org/10.1089/fpd.2023.0064

31. Baskar D, Veeramani-Kumar P, Polavarapu K, Nashi S, Vengalil S, Menon D, Thomas A, Bhargava Sanka S, Muddasu Suhasini K, Huddar A, Unnikrishnan G, **Bardhan M,** Thomas PT, Manjunath N, Atchayaram N. **Clinical spectrum, biochemical profile and disease progression of Kennedy disease in an Indian cohort.** *Internal medicine journal.* 2024 Mar;54(3):455-460. doi: 10.1111/imj.16205. Epub 2023 Aug 14. PMID: 37578398. https://doi.org/10.1111/imj.16205

32. Vengalil S, Pruthi N, Bhat D, Uppar AM, Polavarapu K, Preethish-Kumar V, Nashi S, Rajesh S, Aswini NS, Behera BP, Vandhiyadevan GD, Prasad C, Baskar D, Kulanthaivelu K, Saravanan A, Kandavel T, Nishadham V, Huddar A, Unnikrishnan G, Thomas A, Keerthipriya MS, Sanka SB, Manjunath N, Valasani RK, **Bardhan M,** Nalini A. **Monomelic Amyotrophy/Hirayama Disease: Surgical Outcome in a Large Cohort of Indian Patients.** *World neurosurgery.* 2024 Mar;183:e88-e97. doi: 10.1016/j.wneu.2023.11.087. Epub 2023 Nov 23. PMID: 38006932.https://doi.org/10.1016/j.wneu.2023.11.087

33. Chawla T, Reddy N, Jankar R, Vengalil S, Polavarapu K, Arunachal G, Preethish-Kumar V, Nashi S, **Bardhan M**, Rajeshwaran J, Afsar M, Warrier M, Thomas PT, Thennarasu K, Nalini A. **Myotonic Dystrophy Type 1 (DM1): Clinical Characteristics and Disease Progression in a Large Cohort.** *Neurology India.* 2024 Jan 1;72(1):83-89. doi: 10.4103/neuroindia.NI_1432_20. Epub 2024 Feb 29. PMID: 38443007. https://doi.org/10.4103/neuroindia.NI_1432_20

34. Nishadham V, Santhoshkumar R, Nashi S, Vengalil S, **Bardhan M,** Polavarapu K, Sanka SB, Anjanappa RM, Kulanthaivelu K, Saini J, Chickabasaviah YT, Nalini A. **A Novel Mutation in Frabin (FGD4) Causing a Mild Phenotype of CMT4H in an Indian Patient.** *Journal of neuromuscular diseases.* 2024;11(1):221-232. doi: 10.3233/JND-230042. PMID: 38108359; PMCID: PMC10789318. https://doi.org/10.3233/JND-230042

35. Polavarapu K, Sunitha B, Töpf A, Preethish-Kumar V, Thompson R, Vengalil S, Nashi S, **Bardhan M,** Sanka SB, Huddar A, Unnikrishnan G, Arunachal G, Girija MS, Porter A, Azuma Y, Lorenzoni PJ, Baskar D, Anjanappa RM, Keertipriya M, Padmanabh H, Harikrishna GV, Laurie S, Matalonga L, Horvath R, Nalini A, Lochmüller H. **Clinical and genetic characterisation of a large Indian congenital myasthenic syndrome cohort.** *Brain.* 2024 Jan 4;147(1):281-296. doi: 10.1093/brain/awad315. PMID: 37721175; PMCID: PMC10766255. https://doi.org/10.1093/brain/awad315

36. Chawla T, Nashi S, Baskar D, Polavarapu K, Vengalil S, **Bardhan M**, Preethish-Kumar V, Sukrutha R, Unnikrishnan G, Huddar A, Padmanabha H, Anjanappa RM, Bevinahalli N, Nittur V, Rajanna M, Arunachal Udupi G, Nalini A. **Phenotype-genotype spectrum of a**

cohort of congenital muscular dystrophies: a single-centre experience from India. *Neurogenetics.* 2024 Aug 5. doi: 10.1007/s10048-024-00776-6. Epub ahead of print. PMID: 39103709. https://doi.org/10.1097/CND.0000000000000453

37. Baskar D, Vengalil S, Nashi S, Menon D, Bevinahalli N N, Thomas A, **Bardhan M,** Sanka SB, Manjunath N, Nalini A. **Atypical Presentation of Tangier Disease-Expanding the Clinical Spectrum.** *Journal of clinical neuromuscular disease.* 2023 Sep 1;25(1):42-45. doi: 10.1097/CND.0000000000000453. PMID: 37611269.

38. Baskar D, Vengalil S, Nashi S, **Bardhan M,** Srivastava K, Sanka SB, Polavarapu K, Menon D, Preethish-Kumar V, Padmanabha H, Arunachal G, Nalini A. **MYH2-related Myopathy: Expanding the Clinical Spectrum of Chronic Progressive External Ophthalmoplegia (CPEO).** *Journal of clinical neuromuscular disease.* 2023 Sep 1;25(1):42-45. doi: 10.1097/CND.0000000000000453. PMID: 37611269.

39. Oommen AT, Vengalil S, Baskar D, Thomas A, Kulanthaivelu K, **Bardhan M,** Bhargava SS, Nalini A. **Classical Hirayama Disease Presenting as Progressive Spastic Quadriparesis.** *Annals of Indian Academy of Neurology.* 2023 May-Jun;26(3):308-310. doi: 10.4103/aian.aian_922_22. Epub 2023 Feb 23. PMID: 37538421; PMCID: PMC10394441.

40. Manjunath, V., Thenral, S. G., Lakshmi, B. R., Nalini, Atchayaram, Bassi, A., Karthikeyan, K. Priya, Piyusha, K., Menon, R., Malhotra, A., Praveena, L. S., Anjanappa, R. M., Murugan, S. M. Sakthivel, Polavarapu, Kiran, **Bardhan, Mainak**, Preethish-Kumar, V., Vengalil, Seena, Nashi, Saraswati, Sanga, S., Acharya, M., Raju, R., Pai, V. R., Ramprasad, V. L., Gupta, R., **Large Region of Homozygous (ROH) Identified in Indian Patients with Autosomal Recessive Limb-Girdle Muscular Dystrophy with p.Thr182Pro Variant in SGCB Gene,** *Human Mutation.* 2023, 4362273, 10 pages, 2023. https://doi.org/10.1155/2023/4362273 .

41. Sridhar S, Nashi S, Kulanthaivelu K, Vengalil S, Baskar D, Polavarapu K, Preethish-Kumar V, Padmanabha H, **Bardhan M,** Unnikrishnan G, Huddar A, Menon D, Nittur V, Rajanna M, Bevinahalli N, Thomas A, Keerthipriya MS, Gangadhar Y, Pratyusha PV, Saini J, Mahadevan A, Nalini A. **Magnetic resonance imaging in idiopathic inflammatory myopathies: deciphering the pattern of muscle involvement.** *Neuromuscular disorders.* 2024 Nov 30;47:105257. doi: 10.1016/j.nmd.2024.105257. Epub ahead of print. PMID: 39756250.

42. Morita D, Mukhopadhyay AK, Chowdhury G, Maruyama F, Kanda M, Yamamoto Y, Tahara H, Mukherjee P, **Bardhan M,** Kumagai T, Kitahara K, Miyoshi S-I, Dutta S, Kuroda T. **Genomic epidemiology and genetic characteristics of clinical Campylobacter species cocirculating in West Bengal, India, 2019, using whole genome analysis.** *Antimicrobial agents and chemotherapy.* 2024 Dec 4:e0110824. doi: 10.1128/aac.01108-24. Epub ahead of print. PMID: 39629976.

43. Girija, M. S., Menon, D., Polavarapu, K., Preethish-Kumar, V., Vengalil, S., Nashi, S., Keertipriya, M., Bardhan, M., Thomas, P. T., Kiran, V. R., Nishadham, V., Sadasivan, A., Huddar, A., Unnikrishnan, G. K., Barthur, A., & Nalini, A. **Cardiac MRI in Duchenne and Becker Muscular Dystrophy.** *Annals of Indian Academy of Neurology.* 2024 Sep

1;27(5):552-557. doi: 10.4103/aian.aian_988_23. Epub 2024 Sep 30. PMID: 39344256; PMCID: PMC11575867.

REVIEW ARTICLES(NARRATIVE,SYSTEMATIC REVIEW, METANALYSIS)

1. **Bardhan M**, Dey D, Suresh V, Javed B, Venur VA, Joe N, Kalidindi R, Ozair A, Khan M, Mahtani R, Lo S, Odia Y, Ahluwalia MS. **An overview of the therapeutic strategies for neoplastic meningitis due to breast cancer: when and why?** *Expert review of neurotherapeutics.* doi: 10.1080/14737175.2023.2293223. Epub 2024 Jan 8. Erratum in: Expert Rev Neurother. 2024 Jan-Jun;24(1):i. doi: 10.1080/14737175.2024.2302641. PMID: 38145503.

2. **Bardhan M,** Ray I, Roy S, Roy P, Thanneeru P, Twayana AR, Prasad S, Bardhan M, Anand A. **Disease X and COVID-19: turning lessons from India and the world into policy recommendations.** *Annals of medicine and surgery.* 2024 Jul 19;86(10):5914-5921. doi: 10.1097/MS9.0000000000002391. PMID: 39359799; PMCID: PMC11444564.

3. Suresh V, **Bardhan M***, Ghosh S, Chandani Y, Satapathy P, Roy P, Shamim MA, Gandhi AP, Sandeep M, Rustagi S, Sah R, Padhi BK. **Exploring the role of Orexin-A neuropeptide in Parkinson's disease: A systematic review and meta-analysis.** *Clinical neurology and neurosurgery.* 2024 Jul;242:108320. doi: 10.1016/j.clineuro.2024.108320. Epub 2024 May 12. PMID: 38781804. https://doi.org/10.1016/j.clineuro.2024.108320

4. Shkodina AD, **Bardhan M*,** Chopra H, Anyagwa OE, Pinchuk VA, Hryn KV, Kryvchun AM, Boiko DI, Suresh V, Verma A, Delva MY. **Pharmacological and Non-pharmacological Approaches for the Management of Neuropathic Pain in Multiple Sclerosis.** *CNS drugs.* 2024 Mar;38(3):205-224. doi: 10.1007/s40263-024-01072-5. Epub 2024 Feb 29. PMID: 38421578. https://doi.org/10.1007/s40263-024-01072-5

5. Boiko DI, Shkodina AD, Hasan MM, **Bardhan M,** Kazmi SK, Chopra H, Bhutra P, Baig AA, Skrypnikov AM. **Melatonergic Receptors (Mt1/Mt2) as a Potential Additional Target of Novel Drugs for Depression.** *Neurochemical research,* 2022 Oct;47(10):2909-2924. doi: 10.1007/s11064-022-03646-5. Epub 2022 Jun 11. PMID: 35689787. https://doi.org/10.1007/s11064-022-03646-5

6. Huang H, Mehta A, Kalmanovich J, Anand A, Bejarano MC, Garg T, Khan N, Tonpouwo GK, Shkodina AD, **Bardhan M***. **Immunological and inflammatory effects of infectious diseases in circadian rhythm disruption and future therapeutic directions.** *Mol Biol Rep.* 2023 Jan 19:1–15. doi: 10.1007/s11033-023-08276-w. Epub ahead of print. PMID: 36656437; PMCID: PMC9851103. https://doi.org/10.1007/s11033-023-08276-w

7. Suresh V, **Bardhan M,** Dave T, Shamim MA, Suresh D, Satish P, Dhakal B, Bhonsale A, Roy P, Padhi BK, Monteith T. **Zavegepant for Acute Treatment of Migraine: A**

Systematic Review and Meta-analysis of Randomized Controlled Trials. *Clinical neuropharmacology.* 2024 May-Jun 01;47(3):72-81. doi: 10.1097/WNF.0000000000000588. PMID: 38743600.

8. Banik S, **Bardhan M**, Basak S. **Genetic, Epigenetic, and Molecular Biology of Obesity: From Pathology to Therapeutics the Way Forward.** *The Journal of the Association of Physicians of India.* 2022 Sep;70(9):11-12. doi: 10.5005/japi-11001-0080. PMID: 36082890. https://doi.org/10.5005/japi-11001-0080

9. Huang HYR, Badar S, Said M, Shah S, Bharadwaj HR, Ramamoorthy K, Alrawashdeh MM, Haroon F, Basit J, Saeed S, Aji N, Tse G, Roy P, **Bardhan M**.* **The advent of RNA-based therapeutics for metabolic syndrome and associated conditions: a comprehensive review of the literature.** *Molecular biology reports.* 2024 Apr 5;51(1):493. doi: 10.1007/s11033-024-09457-x. PMID: 38580818.

10. Huang H, Verma J, Mok V, Bharadwaj HR, Alrawashdeh MM, Aratikatla A, Sudan S, Talukder S, Habaka M, Tse G, **Bardhan M**.* **Exploring Health Care Disparities in Genetic Testing and Research for Hereditary Cardiomyopathy: Current State and Future Perspectives.** *Global medical genetics.* 2024 Feb 1;11(1):36-47. doi: 10.1055/s-0044-1779469. PMID: 38304308; PMCID: PMC10834107.

11. Roy P, **Bardhan M,** Roy S, Singh U, Suresh T, Anand A. **Silico-tuberculosis amidst COVID-19 pandemic: global scenario and Indian perspective.** *Annals of medicine and surgery.* 2023 Nov 1;85(12):6083-6090. doi: 10.1097/MS9.0000000000001471. PMID: 38098595; PMCID: PMC10718399.

Collaboratorship in multicentric publications (selected ones)

1. GBD 2019 Cancer Risk Factors Collaborators. **The global burden of cancer attributable to risk factors, 2010-19: a systematic analysis for the Global Burden of Disease Study 2019.** *Lancet. 2*022 Aug 20;400(10352):563-591. doi: 10.1016/S0140-6736(22)01438-6. PMID: 35988567. https://doi.org/10.1016/S0140-6736(22)01438-6
2. GBD 2019 Antimicrobial Resistance Collaborators. **Global mortality associated with 33 bacterial pathogens in 2019: a systematic analysis for the Global Burden of Disease Study 2019.** *Lancet.* 2022 Dec 17;400(10369):2221-2248. doi: 10.1016/S0140-6736(22)02185-7. Epub 2022 Nov 21. PMID: 36423648; PMCID: PMC9763654. https://doi.org/10.1016/S0140-6736(22)02185-7
3. GBD 2019 LRI Collaborators. **Age-sex differences in the global burden of lower respiratory infections and risk factors, 1990-2019: results from the Global Burden of Disease Study 2019.** *The Lancet. Infectious diseases.* 2022 Aug 11:S1473-3099(22)00510-2. doi: 10.1016/S1473-3099(22)00510-2. Epub ahead of print. PMID:35964613. https://doi.org/10.1016/S1473-3099(22)00510-2
4. GBD 2019 Adolescent Transport and Unintentional Injuries Collaborators. **Adolescent transport and unintentional injuries: a systematic analysis using the**

Global Burden of Disease Study 2019. *Lancet Public Health.* 2022 Aug;7(8):e657-e669. doi: 10.1016/S2468-2667(22)00134-7. Epub 2022 Jun 30. PMID: 35779567; PMCID: PMC9329128. https://doi.org/10.1016/S2468-2667(22)00134-7

5. GBD 2019 Meningitis Antimicrobial Resistance Collaborators (2023). **Global, regional, and national burden of meningitis and its aetiologies, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019.** *The Lancet Neurology.* 2023 Aug;22(8):685-711. doi: 10.1016/S1474-4422(23)00195-3. PMID: 37479374; PMCID: PMC10356620. https://doi.org/10.1016/S1474-4422(23)00195-3
6. GBD 2021 Diabetes Collaborators. **Global, regional, and national burden of diabetes from 1990 to 2021, with projections of prevalence to 2050: a systematic analysis for the Global Burden of Disease Study 2021.** *Lancet.* 402(10397), 203–234. https://doi.org/10.1016/S0140-6736(23)01301-6 .
7. GBD 2021 Nervous System Disorders Collaborators. **Global, regional, and national burden of disorders affecting the nervous system, 1990-2021: a systematic analysis for the Global Burden of Disease Study 2021.** *The Lancet Neurology.* 23(4), 344–381. https://doi.org/10.1016/S1474-4422(24)00038-3 .
8. Mensah GA, Fuster V, Murray CJL, Roth GA; Global Burden of Cardiovascular Diseases and Risks Collaborators. **Global Burden of Cardiovascular Diseases and Risks, 1990-2022.** *Journal of the American College of Cardiology.* 82(25), 2350–2473. https://doi.org/10.1016/j.jacc.2023.11.007
9. GBD 2021 Sickle Cell Disease Collaborators. **Global, regional, and national prevalence and mortality burden of sickle cell disease, 2000-2021: a systematic analysis from the Global Burden of Disease Study 2021.** *The Lancet Haematology.* 10(8), e585–e599. https://doi.org/10.1016/S2352-3026(23)00118-7.
10. GBD 2019 Chronic Respiratory Diseases Collaborators. **Global burden of chronic respiratory diseases and risk factors, 1990-2019: an update from the Global Burden of Disease Study 2019.** *EClinicalMedicine.* 2023 May;59:101936. doi: 10.1016/j.eclinm.2023.101936. PMID: 37229504; PMCID: PMC7614570.
11. GBD 2021 Other Musculoskeletal Disorders Collaborators. **Global, regional, and national burden of other musculoskeletal disorders, 1990-2020, and projections to 2050: a systematic analysis of the Global Burden of Disease Study 2021.** *The Lancet Rheumatology.* 5(11), e670–e682. https://doi.org/10.1016/S2665-9913(23)00232-1 .
12. GBD Spinal Cord Injuries Collaborators. **Global, regional, and national burden of spinal cord injury, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019.** *The Lancet Neurology,* 22(11), 1026–1047. https://doi.org/10.1016/S1474-4422(23)00287-9 .
13. GBD 2019 Lip, Oral, and Pharyngeal Cancer Collaborators, Cunha ARD, Compton K, et al. **The Global, Regional, and National Burden of Adult Lip, Oral, and Pharyngeal Cancer in 204 Countries and Territories: A Systematic Analysis for the Global Burden of Disease Study 2019.** *JAMA oncology,* 9(10), 1401–1416. https://doi.org/10.1001/jamaoncol.2023.2960
14. GBD 2019 Asia and All Cancers Collaborators. **Temporal patterns of cancer burden in Asia, 1990-2019: a systematic examination for the Global Burden of**

Disease 2019 study. *The Lancet regional health. Southeast Asia,* 2024 Jan 2;21:100333. doi: 10.1016/j.lansea.2023.100333. PMID: 38361599; PMCID: PMC10866992.

15. GBD 2021 Tuberculosis Collaborators. **Global, regional, and national age-specific progress towards the 2020 milestones of the WHO End TB Strategy: a systematic analysis for the Global Burden of Disease Study 2021.** *The Lancet. Infectious diseases,* 24(7), 698–725. https://doi.org/10.1016/S1473-3099(24)00007-0 .
16. GBD 2021 Diarrhoeal Diseases Collaborators. **Global, regional, and national age-sex-specific burden of diarrhoeal diseases, their risk factors, and aetiologies, 1990-2021, for 204 countries and territories: a systematic analysis for the Global Burden of Disease Study 2021.** *The Lancet. Infectious diseases,* S1473-3099(24)00691-1. Advance online publication. https://doi.org/10.1016/S1473-3099(24)00691-1
17. GBD 2021 HIV Collaborators. **Global, regional, and national burden of HIV/AIDS, 1990-2021, and forecasts to 2050, for 204 countries and territories: the Global Burden of Disease Study 2021.** *The lancet. HIV,* 11(12), e807–e822. https://doi.org/10.1016/S2352-3018(24)00212-1
18. GBD 2019 Blindness and Vision Impairment Collaborators, & Vision Loss Expert Group of the Global Burden of Disease Study (2024). **Prevalence of Vision Loss in South and Central Asia in 2020: Magnitude and Temporal Trends.** *Ophthalmic epidemiology,* 1–14. Advance online publication. https://doi.org/10.1080/09286586.2024.2374934

PERSPECTIVES, VIEWPOINTS, SHORT COMMUNICATIONS, EDITORIALS

1. **Bardhan M,** Pramanik D, Riyaz R, Hasan MM, Essar MY. **Dual burden of Zika and COVID-19 in India: challenges, opportunities and recommendations.** *Tropical medicine and health.* 2021 Oct 18;49(1):83. doi: 10.1186/s41182-021-00378-0. PMID: 34657633; PMCID: PMC8520823. https://doi.org/10.1186/s41182-021-00378-0

2. **Bardhan M,** Hasan MM, Ray I, Sarkar A, Chahal P, Rackimuthu S, Essar MY. **Tuberculosis amidst COVID-19 pandemic in India: unspoken challenges and the way forward.** *Tropical medicine and health.* 2021 Oct 21;49(1):84. doi: 10.1186/s41182-021-00377-1. PMID: 34674772; PMCID: PMC8528656. https://doi.org/10.1186/s41182-021-00377-1

3. Khan E, Jani I, **Bardhan M,** Hasan MM. **Anti-depressants and COVID-19: A New Ray of Hope.** *Psychiatria Danubina.* 2022 Spring;34(1):171-173. doi: 10.24869/psyd.2022.171. PMID: 35467635. https://doi.org/10.24869/psyd.2022.171

4. Ray I, **Bardhan M**, Hasan MM, Sahito AM, Khan E, Patel S, Jani I, Bhatt PK, Sp R, Swed S. **Over the counter drugs and self-medication: A worldwide paranoia and a troublesome situation in India during the COVID-19 pandemic.** *Annals of medicine and surgery.* 2022 Jun;78:103797. doi: 10.1016/j.amsu.2022.103797. Epub 2022 May 26. PMID: 35637885; PMCID: PMC9132719. https://doi.org/10.1016/j.amsu.2022.103797

5. Sarkar MA, Ozair A, Singh KK, Subash NR, **Bardhan M,** Khulbe Y. **SARS-CoV-2 Vaccination in India: Considerations of Hesitancy and Bioethics in Global Health.** *Annals of global health.* 2021 Dec 10;87(1):124. doi: 10.5334/aogh.3530. PMID: 34963880; PMCID: PMC8663743. https://doi.org/10.5334/aogh.3530

6. Ahmed SH, Shaikh TG, Waseem S, Hasan MM, **Bardhan M,** Mukerjee N. **Rise in Cholera amid COVID-19: Spotlight on Pakistan and Bangladesh.** *The Lancet regional health. Southeast Asia,.* 2022 Jul 8:100041. doi: 10.1016/j.lansea.2022.100041. Epub ahead of print. PMID: 35822107; PMCID: PMC9263689. https://doi.org/10.1016/j.lansea.2022.100041

7. Asri S, **Bardhan M,** Juneja K. **Ukraine-Russia Crisis and COVID-19 Pandemic: Impending Danger over Public Health.** *Disaster medicine and public health preparedness.* 2022 Dec 13;17:e307. doi: 10.1017/dmp.2022.273. PMID: 36510820; PMCID: PMC9947037. https://doi.org/10.1017/dmp.2022.273

8. Adeyemo AO, Aborode AT, Bello MA, Obianuju AF, Hasan MM, Kehinde DO, Hossain MS, **Bardhan M,** Imisioluwa JO, Akintola AA. **Malaria vaccine: The lasting solution to malaria burden in Africa.** *Annals of medicine and surgery.* 2022 Jul;79:104031. doi: 10.1016/j.amsu.2022.104031. Epub 2022 Jun 22. PMID: 35761818; PMCID: PMC9220753. https://doi.org/10.1016/j.amsu.2022.104031

9. Prasad S, Shahid A, Co ELF, Khatri G, Cheema HA, Rocha ICN, **Bardhan M,** Hasan MM. **Vaccine apartheid: the separation of the world's poorest and most vulnerable and the birth of Omicron.** *Therapeutic advances in vaccines and immunotherapy.* 2022 Jul 5;10:25151355221107975. doi: 10.1177/25151355221107975. PMID: 35832726; PMCID: PMC9272166. https://doi.org/10.1177/25151355221107975

10. Rackimuthu S, Hasan MM, **Bardhan M,** Essar MY. **COVID-19 vaccination strategies and policies in India: The need for further re-evaluation is a pressing priority.** *The International journal of health planning and management.* 2022 May;37(3):1847-1850. doi: 10.1002/hpm.3321. Epub 2021 Sep 12. PMID: 34510541; PMCID: PMC8652663. https://doi.org/10.1002/hpm.3321

11. Ray I, Hasan MM, Shah PA, Sahito AM, Sarkar A, Ghosh D, **Bardhan M,** Mukerjee N, Essar MY. **HIV epidemic amidst COVID-19 pandemic in India: a conundrum for the country's healthcare system.** *Epidemiology and infection.* 2022 May 26;150:e112. doi: 10.1017/S095026882200098X. PMID: 35615920; PMCID: PMC9203355. https://doi.org/10.1017/S095026882200098X

12. Suvvari, T.K., Anand, A., Srivastava, S., **Bardhan, M**. (2024). **Alterations in Receptor Genes in Huntington's Disease. In: Khan, A., Rather, M.A., Ashraf, G.M. (eds) Mechanism and Genetic Susceptibility of Neurological Disorders.** *Springer, Singapore.* 2022 May 26;150:e112. doi: 10.1017/S095026882200098X. PMID: 35615920; PMCID: PMC9203355. https://doi.org/10.1007/978-981-99-9404-5_9

13. Samim MM, Dhar D, **Bardhan M.*** **Walking through the tracts in the era of bariatric surgery: Obesity and white matter integrity.** *Journal of clinical ultrasound : JCU.* 2023 Oct;51(8):1410-1411. doi: 10.1002/jcu.23565. Epub 2023 Sep 13. PMID: 37702984.

14. **Bardhan M**, Gokhale P, Roy P, Kundu T, Anand A. **Tirzepatide, a dual incretin analog, is a boon in metabolic syndrome: an editorial.** *Annals of medicine and surgery.* 2024 Feb 5;86(3):1249-1250. doi: 10.1097/MS9.0000000000001782. PMID: 38463093; PMCID: PMC10923294.

ABSTRACT PUBLICATION(selected ones)

1. **Bardhan, Mainak**, et al. "Zavegepant Intranasal Spray for the Acute Treatment of Migraine: A Systematic Review and Meta-analysis of Randomized Clinical Trials (S22. 007)." *Neurology*. Vol. 102. No. 17_supplement_1. Hagerstown, MD: Lippincott Williams & Wilkins, 2024. https://doi.org/10.1212/WNL.0000000000206456

2. **Bardhan M,** Anjanappa RM, Polavarapu K, Kumar V, Nashi S, Vengalil S, Huddar A, Unnikrishnan G, Chawla T, Arunachal G, Nalini A. Clinical and mutational spectrum of sarcoglycanopathies in a large cohort of Indian patients. Journal of the Neurological Sciences. 2021 Oct 1;429. https://doi.org/10.1016/j.jns.2021.119767

3. Huddar A, Polavarapu K, Preethish-Kumar V, **Bardhan M**, UNNIKRISHNAN G, Nashi S, Vengalil S, Kulanthaivelu K, Arunachal G, Nalini A. Expanding the Phenotypic Spectrum of ECEL1-Associated Distal Arthrogryposis (P2-5.003). Neurology. 2022 May 3;98(18_supplement):2967.https://doi.org/10.1212/WNL.98.18_supplement.2967

4. Unnikrishnan G, **Bardhan M,** Huddar A, Vengalil S, Nashi S, Padmanabha H, Nalini A. Phenotype Genotype Characterization of FKRP-related Muscular Dystrophy among Indian Patients (P1-1. Virtual). Neurology. 2022 May 3;98(18_supplement):2709.https://doi.org/10.1212/WNL.98.18_supplement.270

5. Ahluwalia MS, Ozair A, **Bardhan M**, Bellur SS, Perche DC, Starosciak AK, Leon-Ariza DS, Khosla AA, Rubens M, Odia Y, Mehta MP. A multicenter phase 1 trial of tucatinib, trastuzumab, and capecitabine with stereotactic radiosurgery in patients with brain metastases from HER-2–positive breast cancer (TUTOR). JCO 42, TPS2089-TPS2089 (2024),https://doi.org/10.1200/JCO.2024.42.16_suppl.TPS2089

6. Podder V, Ranjan T, **Bardhan M**, McCracken A, Hurmiz C, Ganiyani MA, Ahmad S, Mahtani RL, Ahluwalia MS. Comparative survival analysis of patients with HER2-low and HER2-positive metastatic breast cancer with or without brain metastases treated with trastuzumab deruxtecan, Journal of Clinical Oncology 2024 42:16_suppl, TPS2089-TPS2089. https://doi.org/10.1200/JCO.2024.42.16_suppl.1036

7. Muneer MA, Suresh V, Bhonsale AM, Vasipalli SS, Kumar V, Gowda P, Javed B, **Bardhan M**, Garg RK, Malhotra HS. Neuropeptide Alterations in Alzheimer's Disease: A Meta-Analysis of Cerebrospinal Fluid Concentrations. InAlzheimer's Association International Conference 2024 Jul 30. ALZ. https://alz.confex.com/alz/2024/meetingapp.cgi/Paper/90117

8. Suresh V, Dey D, Jayan M, Shamim MA, Gupta S, Ramana D, Dave T, Jena R, Muneer MA, Dhakal B, Ghosh S,Verma A,Garg A, Muzammil M, **Bardhan M**, Malhotra H, Kumar N, Mallick H, and Roy B. Pharmacological Interventions for Pain Management in Diabetic Peripheral Neuropathy: A Network Meta-analysis of Randomised Controlled Trials (P5-13.003). Neurology. 2024 Apr 14;102(17_supplement_1):6215. https://doi.org/10.1212/WNL.0000000000206325

9. Baskar D, Vengalil S, Nashi S, Kumar VP, Polavarapu K, Thomas A, **Bardhan M,** Nalini A. Clinico-genetic study on mitochondrial disorders with isolated neuromuscular manifestations in Indian cohort. Journal of the Neurological Sciences. 2023 Dec 1;455. https://doi.org/10.1016/j.jns.2023.122042

10. Huddar A, **Bardhan M**, Shingavi L, Unnikrishnan G, Vengalil S, Nashi S, Preethish-Kumar V, Polavarapu K, Anjanappa RM, Arunachal G, Nalini A. Clinical and electrophysiological characterization of CMT type 4C with SH3TC2 mutation. InJOURNAL OF THE PERIPHERAL NERVOUS SYSTEM 2021 Sep 1 (Vol. 26, No. 3, pp. 409-410). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.

CONFERENCES &PRESESNTATIONS

- American Academy of Neurology 2024: Oral Presentation.
- American Academy of Clinical Oncology 2024: Poster Presentation.
- 16th Asian Conference on Diarrhoeal Disease and Nutrition 16th ASCODD. November 11-13, 2022, Kolkata, India
- 19th Asian-Oceanian Myology Center Meeting,Busan Korea:Poster presentation
- Tsinghua University,Beijing-Amgen scholars Program 2019:Oral and poster presentation.
- National University Singapore Amgen Scholars symposium 2019-Poster presentation.
- South Asian Medical Students' Association International conference Kolkata 2019 poster presentation
- 25th International student congress of biomedical sciences 2018,The University Medical Center Groningen,Netherlands-Oral Presentation.
- Armed Forces Medical College UG research conference 2018,India-Oral presentation

MEMBERSHIPS

- American Academy of Neurology
- European Academy of Neurology
- American Society of Clinical Oncology
- Sigma Xi, The Scientific Research Honor Society

CERTIFICATIONS &MOOCS

- Basics of Extracellular Vesicles by the University of California, Irvine on Coursera.
- Understanding Clinical Research: Behind Statistics by the University of Capetown on Coursera.
- Writing in the Sciences: Stanford University on Coursera.

- Whole-genome sequencing of bacterial genomes-tools and application: Technical University of Denmark(DTU) on Coursera.
- Probability and Statistics: To p or not to p By the University of London on Coursera.
- LaTeX for Everyone and Everything on Udemy.
- Python for everybody-from the University of Michigan on Coursera.
- Data Science -from The Johns Hopkins University on Coursera.
- System Biology and Biotechnology: Ichan School of Medicine at Mount Sinai on Coursera
- The Unix work Bench: The Johns Hopkins University on Coursera
- Genomic Data Science with Galaxy: The Johns Hopkins University on Coursera
- Introduction to R : Data Camp
- Intermediate R : Data Camp
- Artificial intelligence in Healthcare: Stanford University
- Fundamentals of Clinical Communication Skills: Glocal Academy UK

VOLUNTEERING

- Lions Club Raipur old age home geriatric health camps under the banner of MSAI.
- Health awareness and social camps in leprosy colony in Raipur and in The Leprosy Mission Hospital,Chandkhuri,The Leprosy Mission Trust,India
- Regular health awareness camps in nearby urban slums of Raipur,India
- Illustrator and blogger in Lexicon-The Medical Magazine and blog http://www.lexiconin.com
- Illustrator, blogger, marketing head of Scintilla online magazine for medical students.
- Content reviewer and student contributor in Elsevier publications

PEER-REVIEW & EDITORIAL ACTIVITIES

>200 reviews done. Invited peer-reviewer for:
Web of Science (https://www.webofscience.com/wos/author/record/aal-3008-2020)

- PLOS ONE
- International journal of health promotion and education
- Medical Education
- Neuroscience Informatics
- Annals of Medicine and Surgery
- BMC Health Services Research
- Clinical Case Reports
- Clinical Epidemiology and Global Health
- Children
- Clinical and Translational Neurosciences
- Current Neuropharmacology
- Journal of Clinical Ultrasound: Sonography and other Imaging Techniques (JCU)
- Journal of Neurosciences in Rural Practice
- BMC Public Health
- Clinical Neurology and Neurosurgery
- Genes
- Gene Reports
- Nutrients
- F1000 Research
- Brain Sciences

- Frontiers in Neurology
- Gene
- Global Pediatrics
- Journal of Clinical Medicine
- Journal of Clinical Neurosciences
- Neuroscience Informatics
- Annals of Internal Medicine: Clinical Cases
- BMJ Open
- Biomarkers in Medicine
- Frontiers in Human Neuroscience
- Cureus
- Gut Pathogens
- Global Medical Genetics
- Global Health Journal
- Gastrointestinal Oncology: Management and Care
- Neurobiology of Disease
- Neuroradiology
- International Journal of Health promotion and education
- Journal of Epidemiology and Global Health
- Neurology International
- Preventive Medicine Reports
- International Medical Case Reports Journal
- Infection and Drug Resistance
- Journal of Pain Research

EDITORIAL BOARD MEMBER

1. Journal: **BMC Neurology**
    a. About: BMC Neurology is an open access, peer-reviewed journal that considers articles on all aspects of the prevention, diagnosis and management of neurological disorders, as well as related molecular genetics, pathophysiology, and epidemiology.
    b. My Role:**Editorial Board Member**: Handling peer review process of submitted manuscripts
    c. Website: https://bmcneurol.biomedcentral.com/about/editorial-board

2. Journal: **BMC Neurosciences**
    a. About: BMC Neuroscience is an open access, peer-reviewed journal that considers articles on all aspects of neuroscience, welcoming studies that provide insight into the molecular, cellular, developmental, genetic and genomic, systems, network, cognitive and behavioral aspects of nervous system function in both health and disease.
    b. My Role: **Editorial Board Member**:Handling peer review process of submitted manuscripts
    c. Website: https://bmcneurosci.biomedcentral.com/about/editorial-board
3. Journal: **PLOS ONE**
    a. About: PLOS ONE is an inclusive journal community working together to advance science for the benefit of society, now and in the future.

b. My Role: **Academic Editor;** overseeing the peer review process for the journal, including evaluating submissions, selecting reviewers and assessing their comments, and making editorial decisions.
c. Website: https://journals.plos.org/plosone/static/editorial-board?ae_name=Mainak+Bardhan

4. Journal: **European Journal of Medical Research**
   a. About: European Journal of Medical Research publishes translational, preclinical and clinical research of international interest across all medical disciplines, enabling clinicians and other researchers to learn about developments and innovations within these disciplines and across the boundaries between disciplines.
   b. My Role:**Associate Editor**:Handling peer review process of submitted manuscripts
   c. Website: https://eurjmedres.biomedcentral.com/about/editorial-board
5. Journal: **Therapeutic Advances in Chronic Disease**
   a. About: Therapeutic Advances in Chronic Disease (TACD) is a peer-reviewed open-access journal that focuses on the highest quality research, reviews, and scholarly comment on pioneering efforts and innovative studies across all chronic diseases.
   b. My Role: **Editorial Board member:** Handling peer review process of submitted manuscripts
   c. Website: https://journals.sagepub.com/editorial-board/TAJ
6. Journal: **Frontiers in Neurology**
   a. About: Frontiers in Neurology is a multidisciplinary journal that addresses all areas of neurology to better understand, treat, and prevent neurological disorders.
   b. My Role: **Review Editor:** Handling peer review process of submitted manuscripts
   c. Website: https://loop.frontiersin.org/people/1810255/editorial
7. Journal: **Frontiers in Human Neuroscience**
   a. About: Frontiers in Human Neuroscience publishes research that advances our understanding of the brain mechanisms supporting cognitive and social behavior in humans, in both healthy and diseased states.
   b. My Role: **Review Editor:** Handling peer review process of submitted manuscripts
   c. Website: https://loop.frontiersin.org/people/1810255/editorial

PROFESSIONAL REFERENCES

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