

Contact:

aritri@bcrmrc.iitkgp.ac.in dr.aritribir@gmail.com

+919800127991

b linkedin.com/in/draritribir

Area of Interest:

- Mitochondrial Bioenergetics

- Neuropathology and Molecular characterization of neurodegeneration (Alzheimer's disease & Parkinson's Disease)
- Aging
- Sarcopenia
- Medical Education: Faculty training & Curriculum development and implementation
- Clinical Chemistry: Laboratory organization, automation
- Quality Control: Total quality management in of clinical biochemistry lab.

ARITRI BIR

MBBS, MD (Biochemistry), DNB (Gold Med), MNAMS Assistant Professor Dept of Biochemistry Dr. B.C. Roy Multispeciality Medical Research Centre Indian Institute of Technology Kharagpur

EXPERIENCE:

<u>Nov 2021 – present</u>: Assistant professor, Dr. B.C. Roy Multispeciality Medical Research Centre, IIT Kharagpur

<u>July 2020 – Oct 2021</u>: Associate Professor MGM Medical College, Kishanganj, Bihar

<u>July 2018 – July 2020</u>: Associate Professor IQ City Medical College, West Bengal

<u>June 2016 – June 2018</u>: Assistant Professor IQ City Medical College, West Bengal

<u>July 2014 – June 2016</u>: Assistant Professor IIMSAR, West Bengal

EDUCATION

- MD (Biochemistry): 2011 2014 IPGMER, Kolkata (West Bengal University of Health and Sciences)
- MBBS : 2003 2008
 Medical College, Kolkata (West Bengal University of Health and Sciences)
 Honours in Opthalmology & ENT
- **DNB (Biochemistry) : 2021** National Board of Education in Medical Sciences *President Gold Medal from NBEMS*

TRAINED IN:

- Advanced Medical Course Education (ACME)
- Laboratory Quality Management System and Internal Auditing as per ISO:15189:2012

List of Publication:

Visceral adiposity index and lipid accumulation product index: the promising role in assessing cardiometabolic risk in non-obese patients of PCOS. Bir A, Ghosh A, Chowdhury.S J Edu Health Promot 2022: 12 Accepted in press.

Ganguly U, Bir A, Chakrabarti S (2022) Cytotoxicity of mitochondrial Complex I inhibitor rotenone: a complex interplay of cell death pathways. 2022.13. https://doi.org/10.26124/mitofit :2022-0013

Ghosh A, Bir A. Role of written examination in the assessment of attitude ethics and communication in medical students: Perceptions of medical faculties. J Edu Health Promot 2021;10:23.

Ghosh A, Bir A. Need of evolution in mci teacher's training programs: faculty perceptions of a tertiary care medical college in India. J. Evid. Based Med. Healthc. 2020; 7(23), 1113-1118. DOI: 10.18410/jebmh/2020/240

Sinha S, Ghosh A, Bir A. Role of six sigma metrices in assessing quality check of analytical errors in clinical laboratory. Volume-7 | Issue-4 | April-2018 | ISSN No 2277 - 8179

Bir A, Ghosh A, Sinha S, et al. Quality indicators are effective to monitor the performance level of preanalytical phase- a study in a clinical laboratory of Eastern India. J. Evid. Based Med. Healthc. 2018; 5(13), 1140-1145. DOI: 10.18410/jebmh/2018/236

Ghosh A, Bir A. (2018) Relationship of proinflammatory cytokines with microalbuminuria in patients of type 2 diabetes mellitus- implications in the pathogenesis of diabetic nephropathy. J. Evid. Based Med. Healthc. 2018; 5(10), 862-865. DOI: 10.18410/jebmh/2018/174

Chakrabarti SS, Bir A, Poddar J, Sinha M, Ganguly A, Chakrabarti S. (2016) Ceramide and Sphingosine-1-Phosphate in Cell Death Pathways: Relevance to the Pathogenesis of Alzheimer's Disease. Curr Alzheimer Res. 2016;13(11):1232-1248. DOI: 10.2174/1567205013666160603004239

Sinha M, Bir A, Banerjee A, Bhowmick P, Chakrabarti S. Multiple mechanisms of age-dependent accumulation of amyloid beta protein in rat brain: Prevention by dietary supplementation with N-acetylcysteine, α-lipoic acid and α-tocopherol. Neurochem Int. 2016 May;95:92-9. doi: 10.1016/j.neuint.2015.10.003. Epub 2015 Oct 14. PMID: 26463138.

Banerjee, P., Sahoo, A., Anand, S., Bir, A., & Chakrabarti, S. (2016). The Oral Iron Chelator, Deferasirox, Reverses the Age-Dependent Alterations in Iron and Amyloid-β Homeostasis in Rat Brain: Implications in the Therapy of Alzheimer's Disease. Journal of Alzheimer's disease : JAD, 49(3), 681–693. https://doi.org/10.3233/JAD-150514

Kabiraj, A., Khaitan, T., Bhowmick, D., Ginjupally, U., Bir, A., & Chatterjee, K. (2016). Screening of Oral Potentially Malignant Disorders Using Exfoliative Cytology: A Diagnostic Modality. Journal of cancer epidemiology, 2016, 8134832. https://doi.org/10.1155/2016/8134832

Kaur U, Banerjee P, Bir A, Sinha M, Biswas A, Chakrabarti S. Reactive oxygen species, redox signaling and neuroinflammation in Alzheimer's disease: the NF-*κ*B connection. Curr Top Med Chem. 2015;15(5):446-57. doi: 10.2174/1568026615666150114160543. PMID: 25620241.

Bir A, Sen O, Anand S, Khemka VK, Banerjee P, Cappai R, Sahoo A, Chakrabarti S. α-Synuclein-induced mitochondrial dysfunction in isolated preparation and intact cells: implications in the pathogenesis of Parkinson's disease. J Neurochem. 2014 Dec;131(6):868-77. doi: 10.1111/jnc.12966. Epub 2014 Nov 18. PMID: 25319443.

Khemka VK, Bagchi D, Bandyopadhyay K, Bir A, Chattopadhyay M, Biswas A, Basu D and Chakrabarti S. (2014). Altered Serum Levels of Adipokines and Insulin in Probable Alzheimer's Disease. J Alzheimers Dis. 2014;41(2):525-33. doi: 10.3233/JAD-140006

Khemka VK, Ganguly A, Bagchi D, Ghosh A, Bir A, Biswas A, Chattopadhyay S, Chakrabarti S. Raised serum proinflammatory cytokines in Alzheimer's disease with depression. Aging Dis. 2014 Jun 1;5(3):170-6. doi: 10.14336/AD.2014.0500170. eCollection 2014 Jun.

Sahoo A, Banerjee P, Khemka VK, Bir A, Anand S and Bandyopadhyay K. (2014). Lipid Peroxidation And Antioxidant Status In Cancer: Implication In Carcinogenesis. Int J Biol Med Res.5,3755-3758

Khemka VK, Bagchi D, Ghosh A, Sen O, Bir A, Chakrabarti S and Banerjee A. (2013). Raised Serum Adenosine Deaminase Level in Nonobese Type 2 Diabetes Mellitus. Scientific World Journal. doi:10.1155/2013/404320

Khemka VK, Choudhuri S, Ganguly A, Ghosh A, Bir A, Banerjee A. Lipid peroxidation and antioxidant status in non-obese type 2 diabetes mellitus. Adv Endocrinol 2014;2014:1-6. doi:10.1155/2014/830761