

CURRICULUM VITAE

Arijit Chakraborty, M.Sc., Ph.D., FPSI

Present designation: Assistant Professor & Programme Coordinator, Department of Sports and Exercise Science, Somaiya Vidyavihar University, Mumbai – 400077, Maharashtra.

Date of birth: 8th May, 1987

Institutional address: Somaiya Sports Academy, Somaiya Vidyavihar University, Mumbai – 400077, Maharashtra.

Permanent address: Ramnagar Road No 9/10, Durga Chowmuhani, Agartala, Tripura (W) 799 002, India.

Mobile: +91 9432955998, +91 9874321916 **Office:** +91- 361- 227 0300

E-Mail: say.arjit22@gmail.com, arjit@somaiya.edu **Skype ID:** say.arjit22@gmail.com

An enthusiastic and skilled researcher in molecular reproductive endocrinology engaged as Assistant Professor.

Research Interest:

- ⇒ Reproductive endocrinology in relation to environmental agents especially trace's elements with their possible prevention in human and experimental models.
 - ⇒ Signaling networks and molecular mechanisms that may be linked to development of novel male contraceptives.
 - ⇒ Free radical research with special reference to reproductive biology.
-

Research Techniques Known:

- DNA isolation, Microarray, ChIP, Primer designing, methylation-based array, NGS.
 - Enzyme assays related to thyroid, male and female reproduction, RIA, routine examination of human semen.
 - *Animal handling:* Laboratory rats, mice, rabbits including surgery (ectomy), rat breeding experiments, injection through different routes, oral gavage; development of different pharmacological animal models.
 - Microscopic and CASA based sperm motility & viability assay techniques, general biochemical assays, antioxidant profiles, histometry with quantification etc.
 - Western blotting, immunoprecipitation assay, immunofluorescence staining, spectrophotometry, primary thyroid cell culture, gonadal cell lines GC1, GC2; TM4.
 - Protein purification by different chromatography techniques, electrophoresis, histological slide preparation, immunofluorescence, immunocytochemistry, immunohistochemistry, etc.
 - Enzyme assays (ELISA), basic endocrinological enzyme assays especially in male reproduction, and analysis of sperms, Microscopy – Compound, SEM, TEM, AFM, phase-contrast and fluorescence.
 - FACS analysis of all Spermatological parameters with statistical analysis
 - Manuscript writing for publication, preparing power-point slides and scientific lecture presentation.
 - Process & scientific method development by collaboration with different people having suitable expertise.
 - Guiding Masters Students as Supervisor for their project work.
-

Education:

Postdoctoral Research Department of Molecular and Human Genetics, Banaras Hindu University, Varanasi (2017-2019), funded by DST-SERB, Govt of India.

Research topic: Molecular and cellular effects of excess iodine on male reproductive endocrinology and its possibility in development of non-hormonal contraceptive.

Ph.D. in Science (Physiology) conferred by University of Calcutta, Kolkata, India.

Thesis title: "Excess iodine induced alterations in male reproductive physiology".

Thesis submitted on 4th May, 2016, Viva-voce exam: 19th September 2016

Awarded on 22nd September 2016.

Master of Science in Physiology (October 2010) (Rank: 3rd in order of merit & 1st in special paper)

University of Calcutta, Kolkata, India. (Percentage of Marks: 72.10%) Master's project title: "Effect of excess iodine in thyroid physiology".

Bachelor of Science in Physiology (August 2008) (Rank: 1st in order of merit)

MBB College, Tripura University, India. (Percentage of Marks: 66.75%, Major/Honours Graduation) With Minors: Zoology, Botany (Percentage of Marks: 62% in Pass Graduation)

1. **Chakraborty A**, Excess iodine supplementation aggravates the toxic effects induced by perchlorate on male reproductive system in rats. *Asian Pac J Repro*, **2021** (accepted in press).
2. **Chakraborty A**, Singh V, Mohanty SK, S Rajender, Trivedi S, Agrawal N, Sachan S, Singh K, High frequency of sperm function defects in normozoospermic infertile men. *Andrologia*, **2021** (accepted in press).
3. **Chakraborty A**, Excess iodine exposure: An emerging area of concern for male reproductive physiology in the post-salt iodization era. *Asian Pac J Repro*, 10(3); **2021**: 102-112.
4. **Chakraborty A**, Regulatory proteins in sperm motility: A review and development of non-hormonal male contraceptives. *Chem Biol Lett*, 8(1); **2021**: 10-17.
5. **Chakraborty A**, Singh V, Singh K, S Rajender, Excess iodine impairs spermatogenesis by inducing oxidative stress and perturbing the blood testis barrier. *Reprod Toxicol*, 96; **2020**: 128-140.
6. S Dey, Kaushik G, Mahanta S, **Chakraborty A***, Homology modeling of apoprotein Opsin and covalent docking of 11-cis retinal and 11-cis 3, 4-didehydroretinal to obtain structures of Rhodopsin and Porphyropsin from Zebra danio, *Danio rerio* (Hamilton, 1822). *Jordan J Biol Sci*, 14(4); **2021**: (Accepted in Press)
7. Sarkar D, Chandra AK, **Chakraborty A**, Ghosh S, Chattopadhyay S, Singh LH, Ray I, Effects of bamboo shoots (*Bambusa balcooa*) on thyroid hormone synthesizing regulatory elements at cellular and molecular levels in thyrocytes. *J Ethnopharmacol*, 250; **2020**: 112463.
8. Singh V, Bala R, **Chakraborty A**, Rajender S, Singh K, Duplications in 19p13.3 are associated with male infertility. *J Assist Reprod Genet*, 36(10); **2019**: 2171-79.
9. Singh V, Mohanty SK, Verma P, **Chakraborty A**, Trivedi S, Rajender S, Singh K, XRCC1 deficiency correlates with increased DNA damage and male infertility. *Mutat Res Gen Tox En*, 839; **2019**: 1–8.
10. **Chakraborty A**, Sarkar D, Dey P, Chandra AK. New insights into morphological, stereological and functional studies of adrenal gland under the exposure of a potent goitrogen thiourea. *Interdiscip Toxicol*, 11(1); **2018**:101–107.
11. Singh V, Bansal SK, Sudhakar DVS, Neelabh, **Chakraborty A**, Trivedi S, Gupta G, Thangaraj K, Rajender S, Singh K. SNPs in ERCC1, ERCC2, and XRCC1 genes of the DNA repair pathway and risk of male infertility in the Asian populations: association study, meta-analysis, and trial sequential analysis. *J Assist Reprod Genet*, 36(1); **2018**:79-90. Citations: 1
12. Saha A, Mukherjee S, Bhattacharjee A, Sarkar D, **Chakraborty A**, Banerjee A, Chandra AK. Excess iodine induced lymphocytic impairment in adult rats. *Toxicol Mech Methods*, 29(2)**2019**:110-118. Citations: 1
13. Sarkar D, **Chakraborty A**, Saha A, Chandra AK. Iodine in excess in the alterations of carbohydrate and lipid metabolic pattern as well histomorphometric changes of associated organs. *J Basic Clin Physiol Pharmacol*, 29(6); **2018**: 631-643. Citations: 2
14. Chandra AK, Dutta M, Kundu S, **Chakraborty A**, Mondal C, Sarkar D. Histomorphological and biochemical analysis of large goitres in iodine replete Gangetic plains of West Bengal, India: Is the spectrum shifting towards Graves' disease? *Indian J Physiol Pharmacol*, 62(3); **2018**:79-86.
15. Sinha S, **Chakraborty A**, Mondal C, Chandra AK. Effect of vitamin e acetate supplementation on thyroid hormone sensitive organs following exogenous L- thyroxine treatment. *Asian J Pharm Clin Res*, 11(4); **2018**:1-7. Citations: 2
16. Pal N, Samanta SK, **Chakraborty A**, NK Chandra, Chandra AK. Interrelationship between iodine nutritional status of lactating mothers and their absolutely breast-fed infants in coastal districts of Gangetic West Bengal in India. *Eur J Pediatr*, 177(1); **2018**:39-45. Citations: 3
17. Sarkar D, **Chakraborty A**, Bhattacharya C, Singh LH, Chandra AK. Exploration of goitrogenic/antithyroidal potentiality of bamboo-shoots in relation to thiourea. *Int J Pharm Pharm Sci*, 9 (10); **2017**: 7-12. Citations: 4
18. Chandra AK*, **Chakraborty A***. Influence of iodine in excess on seminiferous tubular structure and epididymal sperm character in male rats. *Environ Toxicol*, 32(6); **2017**:1823-1835. (*Equal contribution) Citations: 5

(contd...)

19. Sarkar D, **Chakraborty A**, Mahapatra D, Chandra AK. Morphological and functional alterations of female reproduction after regular exposure of bamboo shoots of North East India. *Asian Pac J Repro*, 6(4); **2017**: 151-157. *Citations: 1*
20. **Chakraborty A**, Mandal J, Mondal C, Sinha S, Chandra AK. Effect of excess iodine on oxidative stress markers, steroidogenic - enzyme activities, testicular morphology and functions in adult male rats. *Biol Trace Elem Res*, 172(2); **2016**: 380-394. *Citations: 17*
21. Mandal J, **Chakraborty A**, Chandra AK. Altered acetylcholinesterase and Na⁺-K⁺ATPase activities in different areas of brain in relation to thyroid gland function and morphology under the influence of excess iodine. *Int J Pharm Clin Res*, 8(12); **2016**: 1564-1573. *Citations: 8*
22. Chandra AK, Debnath A, Tripathy S, Goswami H, Mondal C, **Chakraborty A**, Pearce EN. Environmental factors other than iodine deficiency in the pathogenesis of endemic goiter in the basin of river Ganga and Bay of Bengal, India. *BLDE Univ J Health Sci*, 1(1); **2016**: 33-38. *Citations: 2*
23. Mondal C, Sinha S, **Chakraborty A**, Chandra AK. Studies on goitrogenic/ antithyroidal potentiality of thiocyanate, catechin and after concomitant exposure of thiocyanate-catechin. *Int J Pharm Clin Res*, 8(1); **2016**: 1-10. *Citations: 3*
24. Chandra AK, Mondal C, Sinha S, **Chakraborty A**, Pearce EN. Synergic actions of polyphenols and cyanogens of peanut seed coat (*Arachis hypogaea*) on cytological, biochemical and functional changes in thyroid. *Indian J Exp Biol*, 53(3); **2015**:143-151. *Citations: 15*
25. **Chakraborty A**, Mondal C, Sinha S, Mandal J, Chandra AK. Amiodarone induced oxidative stress in stress - vulnerable organs of adult male rats. *Asian J Clin Pharm Res*, 7(4); **2014**: 177-183. *Citations: 17*
26. Pal N, Samanta SK, **Chakraborty A**, Mondal C, Mahapatra D, Saha A, Mandal J, Sarkar D, Chandra AK. Iodine nutritional status of breast-fed infants with special reference to dietary goitrogens in certain rural areas of 24-Parganas district of West Bengal. *Indian J Physiol Allied Sci*, 68(4); **2014**: 120-128.
27. **Chakraborty A**, Chandra AK. Excess iodine induced morphological as well as histological changes in male accessory sex organs of adult rats. *Indian J Physiol Allied Sci*, 68(3); **2014**: 76-85.

Book Chapters:

1. **Chakraborty A**, Das G (2021) An overview of environmental pollution, climate change and its impacts on Sunderban Delta. In: Intellect. Us Environment, Anevel Press, pp 149-67. ISBN: 978-81-950332-0-1.
2. Dey S, Das D, **Chakraborty A**, Roychoudhury S, Choudhury B, Choudhury A, Mandal S (2020) Plant based traditional contraceptive use in India: Safety and regulatory issues. In: Evidence based validation of Traditional Medicines: A comprehensive approach, Springer Nature, pp 116-28.
3. **Chakraborty A**. (2020) Puberty. In: Vonk J., Shackelford T. (eds) Encyclopedia of Animal Cognition and Behavior. Springer Nature Switzerland, pp 244-50 /doi.org/10.1007/978-3-319-47829-6_497-1
4. Chakraborty S, **Chakraborty A***. (2020) Touchscreen. In: Vonk J., Shackelford T. (eds) Encyclopedia of Animal Cognition and Behavior. Springer Nature Switzerland, pp 49-54 doi.org/10.1007/978-3-319-47829-6_1855-1
5. Chakraborty S, **Chakraborty A***. (2020) Electromagnetic fields. In: Vonk J., Shackelford T. (eds) Encyclopedia of Animal Cognition and Behavior. Springer Nature Switzerland, pp 18-23. doi.org/10.1007/978-3-319-47829-6_884-1
6. Dey S, Das D, **Chakraborty A***. (2020) Migration. In: Vonk J., Shackelford T. (eds) Encyclopedia of Animal Cognition and Behavior. Springer Nature Switzerland, pp 121-25. doi.org/10.1007/978-3-319-47829-6_914-1
7. Barthakur T, Dey S, **Chakraborty A***. (2020) Insect Locomotion. In: Vonk J., Shackelford T. (eds) Encyclopedia of Animal Cognition and Behavior. Springer Nature Switzerland, pp 1-5. doi.org/10.1007/978-3-319-47829-6_1142-1
8. **Chakraborty A**. (2019) Corticosterone. In: Vonk J., Shackelford T. (eds) Encyclopedia of Animal Cognition and Behavior. Springer Nature Switzerland, pp 1-5. doi.org/10.1007/978-3-319-47829-6_1336-1.

(contd...)

9. **Chakraborty A.** (2019) Reproduction. In: Vonk J., Shackelford T. (eds) *Encyclopedia of Animal Cognition and Behavior*. Springer Nature Switzerland, pp 1-5. doi.org/10.1007/978-3-319-47829-6
10. **Chakraborty A,** Singh V, Singh K, Rajender S (2019). Testosterone signalling in spermatogenesis, male fertility, and infertility. In: *Molecular Signalling in Spermatogenesis and Male Infertility*. CRC Press, Taylor and Francis, pp 77-83.

Awards & Honors:

- ❑ *Conferred as Distinguished Fellow of The Physiological Society of India (PSI), 2021, Kolkata, India.*
- ❑ *Awarded DST-SERB National Postdoctoral Fellowship (2018-2020) (vide letter No. PDF/2017/001558/LS) of Science & Engineering Research Board (SERB), New Delhi.*
- ❑ *Awarded Dr. D.S. Kothari Postdoctoral Fellowship (2017-2020) [vide letter No.F.4-2/2006 (BSR)/BL/16-17/0529] of University Grants Commission (UGC), New Delhi.*
- ❑ *Awarded “Dr. A.G. Datta Memorial Oral Presentation Award 2016” for best oral presentation by XXVIIIth Annual National Conference of Physiological Society of India (PSI), Midnapore, West Bengal, India.*
- ❑ *Awarded Postdoctoral research award from the Ministry of Education, University and Research according to the Ministerial Decree (DM) of Education, University and Research, University of Florence (Italy) for winning the competitive round among all international students in 2017.*
- ❑ *Awarded “Prof. PB Sen Memorial Young Scientist Research Award-2014” of The Physiological Society of India (PSI), Kolkata, India.*
- ❑ *Awarded ‘Young Scientist’ in the Workshop organized by South Asian Association of Physiologists (SAAP) on ‘Current Trends in Resources on Biomedical Sciences’ in 2012.*
- ❑ *Awarded Best paper presentation prize in National Conference “PHYSICON 2011” held at NRI Medical College, Guntur, Andhra Pradesh, India.*
- ❑ *Awarded “Sanjukta Mukhopadhyay Memorial Gold Medal” for securing highest marks in ‘Endocrinology & Reproductive Physiology’ Special Paper in Department of Physiology, University of Calcutta -2010, Kolkata, India.*
- ❑ *Awarded “Gold Medal” from Tripura University (A Central University) for securing highest marks in three-year degree course in Physiology - 2008.*

Book Published:

- *‘Environmental Studies’ published by BB Kundu Grandsons, Kolkata; (2017) Author Dr. Arijit Chakraborty, Prof. Madan Mohan Jana & Prof. Gourab Das. ISBN-978-93-84080-15-0.*
- *‘Sarat Snatak Paribesh Bidya’ published by Jana Publishers & Book sellers, Kolkata; (2017) Author Moumita Das, Dr. Arijit Chakraborty, Prof. Madan Mohan Jana & Prof. Gourab Das. ISBN-978-81-935818-0-3.*

Conference Publications and Workshops attended:

1. *Honorary participation in "CSIR 6th Technology Led Entrepreneurship Programme" during 1 – 6th June 2009, by Indian Institute of Management - Bangalore faculties, at Indian Institute of Chemical Technology, Hyderabad.*
2. *Participation in International Conference of Integrative Physiology: Modern Perspective and Platinum Jubilee Celebration of the Physiological Society of India, organized by Physiological Society of India (PSI), November 2009; Science City, Kolkata.*
3. *International Symposium on Modern Biology in 21st Century: Teaching and Research organized by Department of Biophysics, Molecular Biology and Bioinformatics, University of Calcutta, 7-8th December 2010, Kolkata.*

(contd...)

4. **Chakraborty A**, and Chandra AK, Excess potassium iodide induced changes in thyroid physiology of adult male albino rats, Poster presented in **98th Indian Science Congress**, 188, 3-7th January 2011; SRM University, Chennai, TN.
5. **One Day Symposium and Annual General Meeting** of The Physiological Society of India (PSI) during 24th June, 2011 in University of Calcutta, Kolkata.
6. **Chakraborty A**, and Chandra AK, Activity of thyroid peroxidase in different concentrations of iodine and thiocyanate: an in-vitro study, Poster presented in **PHYSICON 2011**, 118, 21-23rd December 2011; NRI Medical College, Guntur, TN.
7. **Chakraborty A**, and Chandra AK, Excess potassium iodide induced alteration in thyroid Physiology, Poster presented in **International Conference on Frontiers in Biological Research**, 57, 26-27th February, 2012; Vidyasagar University, Midnapore, West Bengal.
8. **International Workshop** on Current Trends in Resources on Biomedical Sciences of South Asian Association of Physiologists (SAAP) organized by PSI, CU, Bose Institute, IICB, NICED, DIPAS (Delhi), 19 - 23rd June, 2012, Kolkata.
9. **One Day Symposium and Annual General Meeting** of The Physiological Society of India (PSI) during 24th June, 2012 in University of Calcutta, Kolkata.
10. **Chakraborty A**, and Chandra AK, Study of colloid goiter in environmentally iodine sufficient area, Poster presented in **PHYSICON 2012**, Oral presented 183, 12-14th December, 2012; Andhra Medical College, Vishakhapatnam, Andhra Pradesh.
11. **Chakraborty A**, and Chandra AK, Effect of excess iodine in the deterioration of reproductive physiology of adult male albino rats, Poster presented in **100th Indian Science Congress (Medical sciences)**, 147, 3-7th January, 2013; Calcutta University, Kolkata, West Bengal.
12. **Chakraborty A**, and Chandra AK, Environmental iodine induced deterioration of reproductive physiology of adult male albino rats, in Poster presented in **100th Indian Science Congress (Environmental Sciences)**, 147, 3-7th January, 2013; Calcutta University, Kolkata, West Bengal.
13. **One Day Symposium and Annual General Meeting** of The Physiological Society of India (PSI) during 21st July, 2013 in University of Calcutta, Kolkata.
14. One day Workshop Program on Tools for in-vivo and in-vitro cardiovascular research organized by Centre for Potential for Excellence in a Particular Area (CPEPA) on 29th July, 2013, University of Calcutta, Kolkata.
15. **'Training Course on application on application of research techniques in Reproductive Biomedicine'** held at National Institute of Health and Family Welfare (NIHFW), 21st November – 1st October, 2013, New Delhi, India.
16. Honorary participation in Workshop on **"Electron Microscopy for Beginners"** in 2013 at Jadavpur University, Kolkata.
17. Chakraborty A, and Chandra AK, Generation of oxidative stress under the influence of Amiodarone – an antiarrhythmic agent, Poster presented in **101st Indian Science Congress**, 147, 3-7th February, 2014; Jammu University, Jammu, India.
18. **One Day Symposium and Annual General Meeting** of The Physiological Society of India (PSI) during 24th June, 2014 in University of Calcutta, Kolkata.
19. Pre-Conference Workshop of 4th Biennial Conference of South Asian Association of Physiologists (SAAP) & 3rd National Convention of Bangladesh Society of Physiologists (BSP), 5 –6th December, 2014, Dhaka, Bangladesh.
20. **Chakraborty A**, and Chandra AK, Excess iodine imparts oxidative stress in some target tissues of thyroid hormones, Oral presented, in 4th Biennial Conference of **South Asian Association of Physiologists (SAAP) & 3rd National Convention of Bangladesh Society of Physiologists (BSP)**, 5– 6th December, 2014, Dhaka, Bangladesh.
21. **Chakraborty A**, and Chandra AK, Amiodarone induced oxidative stress in stress - vulnerable organs of adult male rats, Oral presented in **PHYSICON 2014**, Oral presented 113, 19-21st December, 2014; Berhampore Girls College, Berhampore, West Bengal.
22. **Chakraborty A**, and Chandra AK, Excess iodide induced alteration in thyroid physiology leading to reproductive arrest of pre-pubertal rats, Poster presented in Poster presented in **102nd Indian Science Congress**, 47, 3-7th January, 2015; Mumbai University, Mumbai, India.

(contd...)

23. **Chakraborty A**, and Chandra AK, Effect of excess iodine on disruption of structural and functional status of adult male reproductive system, Oral presented, in **ICMSP 100thClosing Ceremony**, 28th August, 2015, University of Calcutta, Kolkata, West Bengal.
24. **One Day Symposium and Annual General Meeting** of The Physiological Society of India (PSI) during 24th June, 2015 in University of Calcutta, Kolkata.
25. Chandra AK and **Chakraborty A**, Effect of Excess Iodine on Oxidative Stress Markers, Steroidogenic Enzyme Activities, Testicular Morphology, and Functions in Adult Male Rats, Oral presented, in **Colloquium on Emerging Metabolomics (CEM-2016)** during July 25-27, 2016, Las Vegas, NV, USA.
26. **Chakraborty A**, and Chandra AK, Electron microscopic changes in seminiferous tubules and flow cytometric analysis of spermatozoa in adult rats after supplementation of excess iodine. Oral presented in **PHYSICON 2016**, 133, 18-20th November, 2016; Midnapore College (Autonomous), Midnapore, WB.
27. Sarkar D, **Chakraborty A**, and Chandra AK, Excess iodine adversely modulates carbohydrate and lipid metabolism. Poster presented (as co-author) in **PHYSICON 2016**, 154, 18-20th November, 2016; Midnapore College (Autonomous), Midnapore, WB.
28. **Invited Lecture** on '**Iodine physiology**' in 10 days special camp on 'Social, health and environmental awareness' of the session 2016-2017, 4-13th February 2017, Sukanta Nagar, by NSS Cell, University of Calcutta.
29. **Invited Lecture** in State Level Seminar on Micro deficiencies: Prevention and Control. Oral Speaker in Berhampore Girls College, 18-19th February, 2017 in Murshidabad, West Bengal. India.
30. Participated and successfully completed the workshop entitled '**Maternal and Newborn Care: Issues and Challenges**' from 1st to 7th September, 2018 organized by Institute of Science, Banaras Hindu University, Varanasi, India.
31. Participated and successfully completed the workshop entitled '**Use of Statistical Softwares in Biological Research**' from 8th to 10th September, 2018 organized by Department of Zoology, Institute of Science, Banaras Hindu University, Varanasi, India.
32. **Invited Lecture** on '**Spermicidal efficacy of iodine exposure on male reproductive system: future perspectives to be explored as non-hormonal male contraceptive**' in **PHYSICON 2018**. Organized by Department of Physiology (UG & PG) Serampore College, West Bengal, India, 22-24th November, 2018
33. **Chakraborty A**, Singh V, Rajender S, Singh K, '**Spermicidal efficacy of iodine exposure on male reproductive system: future perspectives to be explored as non-hormonal male contraceptive**', Oral presented in **106th Indian Science Congress**, 51, 3-7th January, 2019; Lovely Professional University, Ludhiana, India.
34. **Chakraborty A**, Singh V, Rajender S, Singh K, '**Spermicidal efficacy of iodine exposure on male reproductive system: future perspectives to be explored as non-hormonal male contraceptive**', Poster presented in **Global Conference on Reproductive Health with Focus on Occupational, Environmental and Lifestyle Factors (ISSRF 2019)**, 156, 22-24th February, 2019; AIIMS, New Delhi, India.
35. **Chakraborty A**, Singh V, Rajender S, Singh K, '**Impact of prolonged high iodine intake on structural and functional aspects of male reproductive physiology**', Poster presented in **International Conference on Molecular Basis of Diseases and Therapeutics (ICMBDT)**, 110, 8-10th March, 2019; Central University of Rajasthan, Rajasthan India.
36. **Invited Lecture** on '**Excessive dietary iodine impairs spermatogenesis by inducing cellular oxidative stress and perturbing blood testicular barrier**' in **PHYSICON 2019**. Organized by Department of Physiology, Bankura Christian College, West Bengal, India, 15-17th November 2019.

Project handled as Principal Investigator (PI):

Title of the Project	Duration	Funding Agency	Total Cost (Rs)
"Spermicidal Efficacy of Iodine Exposure on Male Reproductive System: Future Perspectives to be Explored as Non-hormonal Male Contraceptive"	2018 - 2020	DST- Science and Engineering Research Board (SERB)	19.20 Lakhs

(contd...)

Memberships of National and International Organizations:

- The Physiological Society of India, India - Life Member since 2010.
 - Indian Science Congress Association - Life Member since 2010.
 - South Asian Association of Physiologists (SAAP)-Life Member since 2010.
 - Federation of Indian Physiological Societies (FIPS)-Life Member since 2010.
 - Federation of Asian and Oceania Physiological Societies (FAOPS) since 2014.
 - Indian Society for the Study of Reproduction and Fertility (ISSRF) since 2018.
-

Memberships of Academic and Professional Bodies:

- **Member**, Academic Council, Somaiya Vidyavihar University, Mumbai from 2021.
 - **Member**, Internal Quality Assurance Cell (IQAC), Somaiya Vidyavihar University, Mumbai from 2021.
 - **Member**, Board of Studies in B.Sc. Sports & Exercise Science, Somaiya Sports Academy, Somaiya Vidyavihar University, Mumbai from 2021.
 - **In-charge-Exam Cell**, Somaiya Sports Academy, Somaiya Vidyavihar University, Mumbai from 2021.
 - **Member**, UGC-LOCF Taskforce, Somaiya Vidyavihar University, Mumbai from 2021.
 - **Member**, UGC Quality Mandate task group for Jeevan-Kaushal (Life-skills), Somaiya Vidyavihar University, Mumbai from 2021.
 - **Member**, UGC Quality Mandate task group for Paramarsh scheme, Somaiya Vidyavihar University, Mumbai from 2021.
 - **Member**, Departmental Research Committee (DRC), Department of Zoology, The Assam Royal Global University, Guwahati, Assam, India (2019- February 2021).
-

Webinars/ FDP/e-workshops attended:

Webinars attended: 89 (Eighty-nine)

FDP (Faculty development Programme): 07 (Seven)

e-workshops: 19 (Nineteen)

International Exposures for Research Purpose:

Dhaka, Bangladesh – 2014; Invited Speaker in 4th Biennial Conference of South Asian Association of Physiologists (SAAP) & 3rd National Convention of Bangladesh Society of Physiologists (BSP).

Member of National Organization:

Nominated and selected as the **Executive Committee Member** of The Physiological Society of India (PSI), for the period 2016-2019.

Editor of Journals:

Chief Editor, Indiana Journal of Life Sciences, Indiana Publishing group, India.

Lead Guest Editor, Cancer Informatics, SAGE publishing group, USA.

Editorial Board Member, American Journal of Biomedical and Life Sciences, USA.

Teaching Experience:

- Worked as a **Guest Faculty Member** for teaching Environmental Studies in Acharya Jagadis Chandra Bose College for the Under-graduate students under University of Calcutta since January, 2012-2017.
 - Successfully supervised **18 PG dissertations** and term papers in Department of Zoology, The Assam Royal Global University.
 - Acted as an **Examiner, Scrutinizer of University Examination question papers in Physiology** under University of Calcutta from AJC Bose College in Physiology.
-

(Arijit Chakraborty)