

ALOK CHATTOPADHYAY, M.SC., P.G.D.P.H.N., PH.D., F.A.B.M.S.

Mobile # (0) 9830521502

EMAIL: alokc1972@yahoo.co.in / alokc1972@gmail.com

PRESENT POSITION

Associate Professor & Head, Dept. of Physiology;
Harimohan Ghose College (Under University of Calcutta)
Kolkata -700024.

TEACHING EXPERIENCE

Total **Twenty-four (24)** years

1. Vidyasagar Evening College (Kolkata): **Five** years (Part-time) (under University of Calcutta)
2. JIS College of Engineering (Kalyani): **One** year. as Lecturer (Full Time) (under West Bengal University of Technology)
3. Harimohan Ghose College (Kolkata): **Nineteen** years as Assistant Professor and Associate Professor (under University of Calcutta)
4. Guest Faculty:
 - (i) Dept. of Home Science (University of Calcutta. P.G. &U.G.)—**Two** years
 - (ii) P.G. Section in Physiology (Rammohan College)—**Five** years
 - (iii) P.G. Section in Physiology (Serampore College)-**Four** years
 - (iv) Dept. of Physiology, West Bengal State University, Barasat – **Four** years

**Examiner, Coordinator, Head examiner,
Scrutineer, Paper Setter, Re-examiner:**

- A. University of Calcutta
- B. West Bengal University of Technology
- C. University of Kalyani
- D. Burdwan University
- E. West Bengal State University
- F. Sikkim Manipal University
- G. Vidyasagar University
- H. West Bengal School Service Commission

ENLISTMENT AS PH.D. SUPERVISOR: 1. Dept. of **Physiology;**
University of Calcutta

2. Dept. of **Food & Nutrition;**
University of Calcutta

AWARDED RESEARCH PROJECTS 1. Development of New Contraceptive....
Reproductive Biotechnology. **U.G.C. Minor
Research Project (2007) Rs. 65,000/-**

2. Studies for evaluation of antifertility properties
.....*Terminalia arjuna*. **U.G.C. Minor Research
Project (2011) Rs. 1,98,100/-**

3. Studies for..... of Kolkata. **U.G.C. Major
Research Project (2012) Rs. 8,30,800/-**

RESEARCH GUIDANCE

- Supervised as **Associate Supervisor** one candidate Ms. Reetapa Biswas who has been awarded Ph.D. in Food & Nutrition from University of Calcutta in March,2019.
- Supervised as **Principal Supervisor** of Ms. Rubia Mondal who has been awarded Ph.D. in Physiology from University of Calcutta in January,2024.
- Supervising as **Principal Supervisor** of Mr.Nadim Haider, registered in Ph.D.

program in Physiology, University of Calcutta (2019).

- Supervising as **Principal Supervisor** of Mr. Avirup Chakraborty, enrolled in Ph.D. program in Physiology, University of Calcutta (2023).

MEMBERSHIP OF SCIENTIFIC ORGANISATIONS

- 1) Life Member – Physiological Society of India (**P.S.I. (Kolkata)**).(PSI-LM73)
- 2) Life Member – Indian Society of Comparative Endocrinology (**ISCE (V.H.U.-Varanasi)**).
- 3) Life Member – Indian Society for the Study of Reproduction & Fertility (**ISSRF**) (Life membership no. 1061, **Jaipur**).
- 4) Life Member--Indian Association of Biomedical Scientists (**IABMS**) (Membership no. 911/2011) (**Chennai**);**Treasurer-IABMS-Eastern Regional Chapter (ERC)- Kolkata.**
- 5) Founder-Member & Treasurer– Association of Biomedical Sciences, **Kolkata (ABMSK) 2018.**

AWARDS/PRIZE/CERTIFICATES/DIPLOMA

1. **National Scholarship Certificate (1987):** Secured **Star Marks** in Madhyamik Pariksha.
2. **National Scholarship Certificate (1989):** Higher Secondary Examination.
3. **P.B. Sen Memorial Research Award (2000):**
Best publication for the year 2000–2001, awarded by the **Physiological Society of India.**
4. Presented paper on **Young Scientists' Award Program – Indian Science Congress (2002).**
5. Best paper presentation in the **Annual Conference of Indian Association of Biomedical Scientists (2013).**
6. Awarded **Fellow of the Association of Bio-Medical Scientists (FABMS) Title** in November, 2016.

7. Delivered **Sri Ramendra Sundar Sinha Memorial Oration, 2016** at the **Annual Conference of the Physiological Society of India**, in November, 2016.
8. Completed one year e-Post graduate **Diploma Program in Public Health Nutrition, 2021**(December,2020—December,2021) from **Public Health Foundation of India, New Delhi**.
9. Completed three months **e-Course in Research Ethics (Certificate)** (October,2021—January,2022) from **Public Health Foundation of India, New Delhi**.

LIST OF PUBLICATIONS

RESEARCH PAPERS:

- 1) Mandal L; Gangopadhyay S and **Chattopadhyay A.** (2023) Assessment of inflammatory status and oxidative stress in readymade garment manufacturing workers of Garden Reach-Metiabruz area of Kolkata. *Indian Journal of Physiology and Pharmacology*. doi; 10.25259/IJPP_64_2023. Vol.67(3) 212-17.
- 2) Mondal R; Pal P; Biswas S; **Chattopadhyay A**; Bandyopadhyay A; Mukhopadhyay A and Mukhopadhyay P. K. (2023) Attenuation of sodium arsenite mediated ovarian DNA damage, follicular atresia and oxidative injury by combined application of vitamin E and C in post-pubertal Wistar rats. *Naunyen-Schmiedeberg's Archives of Pharmacology* doi: 10.1007/ s00210/023-02491-9 (Germany).
- 3) Mondal R; Mukhopadhyay A; **Chattopadhyay A**; Bandyopadhyay A and Mukhopadhyay P.K. (2022): Ovarian follicular atresia and uterine toxicity after sub-chronic oral exposure of postpubertal rats to sodium arsenite. *Comparative Clinical Pathology* doi: 10.1007/s00580-022-03358-w (Switzerland).
- 4) Banerjee A; Maji B.K. and **Chattopadhyay A.** (2021): *Terminalia arjuna* induced testicular assault through Leydig cell derangement: an *in vitro* approach. *Journal of Complementary and Integrative Medicine* doi: 10.1515/jcim-2020-0300. PMID: 33544551. Vol.18(3) 627-31 (Germany).
- 5) **Chattopadhyay A** and Gangopadhyay S. (2020): Trends of alterations in pulmonary function & symptoms in garment workers of Garden reach-Metiabruz area of Kolkata. *Biomedicine*, Vol.40(3) 357-62 (India). doi: 10.51248/.v40i3.26.
- 6) Biswas R; Ghosal S; **Chattopadhyay A** and Datta (De) S. (2017): A comprehensive review on watermelon seed oil—an underutilized product. *IOSR Journal of Pharmacy*, Vol. 7 (11) Ver 1, 01-07 (India).
- 7) Biswas R; **Chattopadhyay A.** and Datta (De) S. (2017): Hypoglycemic and hypolipidemic effects of watermelon (*Citrullus vulgaris*) seed kernels on male albino rats. *Current Research in Nutrition and Food Science*, Vol. 5(3) 368-73 (India).

- 8) Pandey N; Sengupta R and **Chattopadhyay A.** (2017): Isolates of *Bifidobacterium* from paediatric stool samples—a potential antagonistic agent against enteric pathogens and useful as a potent probiotic. *Biomedicine*, Vol 37 (3) 399-406 (**India**).
- 9) Parveen, S; Molla S.H.; Ghosh, T.K. and **Chattopadhyay, A.** (2017): Protection from arsenic induced hyperglycemia by a traditional plant—a preliminary study. *Hepatology and Pancreatic Science*, Vol.1(1): 102(**USA**).
- 10) **Chattopadhyay, A.** (2016): Problems of Andropause & possible remedies (Review) *Indian Journal of Physiology & Allied Sciences*, Vol 70 (1) 3-11.
- 11) **Chattopadhyay, A** and Mukherjee, S. (2016): Protection of estrogen induced oxidative stress mediated testicular dysfunction by N-acetylcysteine in albino rats. *Biomedicine*, Vol. 36 (2) 71-81(**India**).
- 12) Biswas, R.; **Chattopadhyay, A.** and Datta (De), S. (2015): Effect of watermelon (*Citrullus vulgaris*) seed kernels on serum lipid profile and body weight of male albino rats. *IOSR Journal of Environmental Science, Toxicology and Food Technology*, Vol. 9 (10) Ver II, 13--6 (**India**).
- 13) **Chattopadhyay, A** and Sengupta, R. and Parveen S. (2014): Antigonadal effects of *Terminalia arjuna* in male albino rats. *Research Journal of Medicinal Plants*, Vol 8(2),82-91 (**USA**)
- 14) **Chattopadhyay, A** and Biswas, N.M. (2013): Testosterone supplemented protection on inhibition of testicular function induced by copper chloride. *DHR International Journal of Biomedical and Life Sciences*, Vol.4(1)212-23 (**India**).
- 15) Biswas, N.M.; **Chattopadhyay, A.** and Sarkar, M. (2006): Hormonal contraceptive like effect of estrogen in milk protein-fed male rats. *Nepal Medical College Journal*, Vol.8(2),101—6 (**Nepal**).
- 16) **Chattopadhyay, A.;** Sarkar, M. and Biswas, N.M. (2006): Effect of gold on stimulation of reproductive function in female albino rats. *Indian Journal of Expt.Biol.* Vol.44(12),971—6.
- 17) **Chattopadhyay, A.;** Sarkar, M. and Biswas, N.M. (2005): Dose dependent effect of copper chloride on male reproductive function in immature rats. *Kathmandu University Medical Journal*, Vol. 3(4), 392—400(**Nepal**).
- 18) Biswas, N.M.; **Chattopadhyay, A.** and Sarkar, M. (2004): Effect of gold on testicular steroidogenic and gametogenic functions in immature male albino rats. *Life Sciences*, Vol.76(6), 629—36 (**USA**).
- 19) Sarkar, M.; Raychaudhuri, G.; **Chattopadhyay, A.** and Biswas N.M. (2003): Effect of sodium arsenite on spermatogenesis, plasma gonadotrophins and testosterone in rats. *Asian Journal of Andrology*, Vol. 5(1), 27-31 (**China**).
- 20) Biswas, N.M.; **Chattopadhyay, A** and Sarkar, M. (2003): Protection of Adrenocortical Activity by Dietary Casein in Ether Anaesthetized Rats. *Indian Journal of Experimental Biology*, Vol. 41(4), 367--9.

- 21) **Chattopadhyay, A;** Sarkar, M. and Biswas, N. M. (2002): Effect of Copper Chloride on Adrenocortical Activities in Adult and Immature Rats. *Environmental Toxicology & Pharmacology*, Vol.11, 79--84 (The Netherlands).
- 22) Biswas, N. M.; Roychowdhury, G.; **Chattopadhyay, A.** and Sarkar, M. (2001): Effect of Casein diet on GnRH–antagonist Induced Changes in Adrenal Gonadal Functions in Male Rats. *Indian Journal of Experimental Biology*, Vol. 39(12), 1249 –53.
- 23) Biswas, N. M.; Sengupta, R., **Chattopadhyay, A.;** Roychowdhury, G. and Sarkar, M. (2001): effect of Atenolol on Cadmium Induced Testicular Toxicity in Male Rats. *Reproductive Toxicology*, Vol. 15, 699 – 704 (USA).
- 24) Biswas, N. M.; Sengupta, R.; Roychowdhury, G.; **Chattopadhyay, A.** and Sarkar, M. (2001): prevention of Adrenocortical Hyperactivity by Dietary Casein in Rats Exposed to Forced swimming Stress. *Indian Journal of Experimental Biology*, Vol. 39(2), 178 – 80.
- 25) **Chattopadhyay, A.;** Sarkar, M.; Sengupta, R.; Roychowdhury, G. and Biswas, N. M. (1999): Antitesticular Effect of Copper Chloride in Albino Rats. *Journal of Toxicological Sciences*, Vol. 24(5), 393 -- 7 (Japan).
- 26) Biswas, N. M.; **Chattopadhyay, A.;** Sengupta, R.; Roychowdhury, G. and Sarkar, M. (1999): Protection of Adrenocortical Activity by Dietary Casein in Rats Treated with Estrogen. *Medical Science Research*, Vol. 27, 415 -- 7 (UK).
- 27) Biswas, N. M.; Sengupta, R.; Roychowdhury, G.; **Chattopadhyay, A.;** Ghosh, S. and Chatterjee, A. K. (1998): Indomethacin Protection against Testicular Lipid Peroxidation and Depletion of testicular Ascorbic Acid and Serum Testosterone in Cadmium-treated Male Rats. *Medical Science Research*, Vol. 26(3), 187 -- 9 (UK).
- 28) Roychowdhury, G.; Sarkar, M.; Sengupta, R.; Chaudhuri, A.; **Chattopadhyay, A.** and Biswas, N. M. (1997) : Effect of Corticosterone on Testicular Steroidogenesis in the Toad during hibernation. *Medical Science Research*, Vol. 25(12), 827 -- 8 (UK).

CHAPTER OF BOOK :

- Das, A; **Chattopadhyay, A** and Ghosh, S.K. (2010): Evaluation of Growth, Nutritional Status and Physical Fitness in Primary School Going Children from Low Income Families in Kolkata. **Ergonomics for Everyone**. Published by **HWWE 2009 – University of Calcutta**; Ed.Gangopadhyay, S. pp.663--71.

BOOK (SOLE AUTHORSHIP) :

- **A. Chattopadhyay (2013):** Copper induced changes in Testis and Adrenal Cortex of Albino Rats. **Lambert Academic Publishing, Germany, ISBN: 978-659-38925-2.**

PAPERS IN INTERNATIONAL CONFERENCES

- **International Conference on Frontier Researches in Integrative Physiology, (ICFRIP), Kolkata, 2007.** Effect of high dietary casein on spermatogenesis, serum concentrations of gonadotropins and testosterone in estrogen-treated male rats.
- **International Ergonomics Conference: Humanizing Work and Work Environment (HWWE), Kolkata, 2009.** Evaluation of Growth, Nutritional status and Physical Fitness in Primary School-going children from low-income families in Kolkata.
- **International Conference on Molecules to Systems Physiology: 100 Years Journey: ICMSP 100, Kolkata, 2011.** Adverse effect of *Terminalia arjuna* on gonadal activity in male rats.
- **International Conference on Repromics-Omics in Reproduction: Thiruvananthapuram, 2013.** Effect of simultaneous testosterone supplementation on copper induced inhibition of testicular activity in male rats.
- **Global Healthcare Summit --American Association of Physicians of Indian Origin (AAPI) Kolkata, 2017.** Preliminary studies on preparation and characterization of modified reduced grapheme oxide (MRGO): a potent antibacterial nanomaterial in *E. coli*.
- **FAOPS 2023 -- The 10th Federation of the Asian and Oceanian Physiological Societies Congress FAOPS Congress-2023, EXCO, Daegu, Korea, 1-4 November 2023. Symposium Chair:** Session: Occupational health issues among workers of informal sectors: a physiological perspective. **Lecture Title:** Workers of garment manufacturing in Kolkata: increased susceptibility of inflammatory burst, COVID and non-communicable diseases (NCDs).

WORKSHOP ATTENDED

- **HWWE 2009 (International Ergonomics Association and University of Calcutta) : Pre Conference & Post Conference Workshops on 16/12/09 & 20/12/09 :** Work Related Musculoskeletal Disorders & Participatory Ergonomics.
- **U.G. Board of Studies in Physiology, University of Calcutta & Rammohan College on 02/02/10 and 09/02/10 :** Revision of Syllabi of B.Sc. Physiology (Honours & General) Courses of Studies.
- **National Institute of Health & Family Welfare (NIHFW), New Delhi, 18--29 October, 2010:** Application of Molecular Biology Techniques in Reproductive Biomedicine.
- **U.G. Board of Studies in Physiology, University of Calcutta on 04/05/2018 :** C.B.C.S Syllabus in Honours and General course of Physiology.

IMPORTANT NATIONAL CONFERENCES ATTENDED

- **Sixteenth National Conference of the Indian Association of Biomedical Scientists (IABMS) 1995.** Role of dietary casein in prevention of stress induced adrenocortical hyperactivity.
- **Third Congress of the Indian Physiological Societies (FIPS), November 2000.** Effect of copper chloride on adrenocortical function in adult and immature rats.
- **Annual Conference of the Physiological Society of India, Calcutta, 2001.** Antitesticular effect of copper chloride in albino rats.
- **Indian Science Congress, Lucknow, January, 2002.** Biphasic effect of copper chloride on male reproductive function in immature rats.
- **Thirty second Annual Conference of the Indian Association of Biomedical Scientists, Panjab University, Chandigarh, November, 2011.** Antitesticular effect of *Terminalia arjuna* in male rats.
- **Thirty fourth Annual Conference of the Indian Association of Biomedical Scientists, University of Madras, Chennai, December, 2013.** Role of testosterone in protecting stress induced testicular inhibition in copper chloride exposed albino rats.
- **Twenty seventh Annual Conference of the Physiological Society of India, University of Calcutta, Kolkata, December, 2015. Invited Lecture:** Protective effect of N-Acetylcysteine on estrogen induced testicular oxidative stress & dysfunction in albino rats.
- **Thirty seventh Annual Congress of the Indian Association of Biomedical Scientists, Shobhit University, Meerut, November, 2016. Invited Lecture:** Changes in lung function & inflammatory response along with infection susceptibility in garment manufacturing workers of Garden Reach Metiabruze region of Kolkata.
- **Twenty eighth Annual Conference of the Physiological Society of India, Midnapore College (Autonomous), Midnapore, November, 2016. Sri Ramendra Sundar Sinha Memorial Oration Lecture:** Trends of alterations in lung function & inflammatory response along with oxidative stress and infection susceptibility in readymade garment manufacturing workers of Garden reach region of Kolkata.
- **Thirty eighth Annual Congress of the Indian Association of Biomedical Scientists, Saveetha Medical College, Saveetha University, Chennai, Meerut, November, 2017. Plenary Lecture:** Modified Reduced Graphene Oxide (MRGO): A prospective antibacterial nanomaterial against *S.aureus*.
- **Thirtieth Annual Conference of the Physiological Society of India, Dept. of Physiology, Serampore College, Serampore, Hooghly, November, 2018. Invited Lecture:** Studies for evaluation of the effects of Ramadan fasting on body composition and pulmonary function.
- **Fortieth Annual Conference of Indian Association of Biomedical Scientists(IABMS), Dept.of Physiology,Chettinad Hospital & Research Institute(CHRI),Kelembakkam, Tamil**

Nadu, November, 2019. Effect of *Terminalia arjuna* on male reproduction: *in vivo* and *in vitro* studies.

- **Thirty first Annual Conference of the Physiological Society of India, Dept. of Physiology, Bankura Christian College, Bankura, November, 2019.** Impaired respiratory health and infection proneness in the textile workers of Garden Reach area of Kolkata.

TRAINING COURSE ATTENDED

- **Orientation training course on Application of Research Techniques in Reproductive Biomedicine** organized by Department of Reproductive Biomedicine, **National Institute of Health and Family Welfare, New Delhi** (Ministry of Health & Family Welfare, Govt. of India) from 07/01/2002 to 18/01/2002.
- **Five Evening Training Program (FETP) on Ergonomics, Occupational Health and Safety at Work**, organized by **Academic Staff College, University of Calcutta** and **Indian Society of Ergonomics, Calcutta** from 06/12/2004 to 10/12/2004.
- **Second FETP on Ergonomics, Occupational Health, Safety and Environment** organized by **Academic Staff College, University of Calcutta** and **Indian Society of Ergonomics, Calcutta** from 10/03/2008 to 14/03/2008.
- **ISAK (International Society for the Advancement of Kinanthropometry) Training Course** for accreditation as **Level One Anthropometrist** at **University of Kalyani** from 24/05/2011 to 27/05/2011.
- **UGC Sponsored Refresher Course in Life Science** organized by **Academic Staff College, University of Calcutta** from 22/11/2013 to 13/12/2013.
- **UGC Sponsored Special Winter School, 2017 on Nation and Higher Education** organized by Human Resource Development Centre (HRDC) **Jadavpur University** from 10/03/2017 to 31/03/2017.
- **10th International Short Course on Understanding Public Health Nutrition: Towards Policy and Action** jointly organized by Centre for Chronic Disease Control (CCDC, **New Delhi**) and International Food Policy Research Institute (**IFPRI, New Delhi**) from 12/12/2022 to 15/12/2022.

SEMINAR ORGANIZED

- **UGC Sponsored State Level Seminar on Community Health: Problems and Prevention, Harimohan Ghose College, Kolkata: 28/03/2006.** Convener & Organizing Secretary.
- **One day Seminar** jointly organized by **Indian Association of Biomedical Scientists (IABMS) Kolkata Chapter** and **Harimohan Ghose College** at **Meghnad Saha Auditorium, University of Calcutta, Kolkata: 03/10/2015.** Organizing Secretary.

- **National Level Webinar on “Impact of COVID-19 Pandemic on Academics: From Molecules To Minds”, Dept. of Physiology, Harimohan Ghose College, Kolkata: 27/02/2021.** Convener.
- **State level Seminar on “Unlocking Physiology of Diseases: From Plants to Humans”** jointly organized by the **Dept. of Botany & the Dept. of Physiology, Harimohan Ghose College** on 13/12/2023. Organizing Secretary.