



Dr. Gouriprosad Datta

ASSOCIATE PROFESSOR

PROFESSIONAL EXPERIENCE

Dr. Datta is engaged in both under-graduate and post-graduate teaching in the Department of Physiology, Rammohan College, since 1983 and 2006, respectively.

He has 21 publications in national & international journals and several conference proceedings. He has guided several PG students for dissertation.

He has served as HOD and Course Co-ordinator for PG course.

He has served as an elected member of the UG council of university of Calcutta for two consecutive tenures.

FIELD OF RESEARCH

Keeping in mind the social issues associated with the lack of safe drugs at affordable rate, and the lack of healthy sustainable lifestyle; Dr. Datta is interested in research involving the prevalence of lifestyle induced non-communicable diseases in the society, the risk factors associated with it and the role of nutraceuticals in the prevention of these diseases. Study involving green synthesis of nanoparticles and their efficacy in preventing diseases is also one of the fascinating fields of his research. This could lead to new arena of research in nutraceuticals and their efficacy in preventing lifestyle induced several diseases.

Dr. Datta is also interested in research involving sports & exercise physiology and oxidative stress arising in athletes from eastern India, due to over-training and the role of antioxidant vitamin supplementation and diet counselling in preventing oxidative damage. Variation in body composition along with physiological and anthropometric parameters of players playing at different position has also been his another field of exploration.

RESEARCH TEAM

- Dr. Subhashree Basu, awarded Ph.D. in 2017 by University of Calcutta.
- Dr. Anurupa Sen, awarded Ph.D. in 2018 by University of Calcutta.
- Dr. Moumita Das, awarded Ph.D. in 2019 by University of Calcutta.
- Mr. Abhishek Bannerjee, thesis submitted in 2019 under University of Calcutta.
- Ms. Mousumi Mitra, "summary of work" approved by University of Calcutta
- Mr. Surojit Sarkar, registered Ph.D. scholar under University of Calcutta.
- Ms. Monalisa Debnath, registered Ph.D. scholar under University of Calcutta.
- Ms. Pritha Roy, completed course work for Ph.D. registration under University of Calcutta

ACHIEVEMENTS

He has received research grant from "UGC-Major Research Project" and has research collaborations with Dr. Kuladip Jana (Bose Institute, Division of Molecular Medicine), Dr. Swapan kr. De (Sports Authority of India) and Dr. Dilip Kumar Nandi (Raja Narendra Lal. Khan Women's College).

Invited for Plenary Lecture, "Hepatoprotective Role of Two Commonly Consumed Vegetables against Ethanol Induced Oxidative Stress and Apoptosis", "XXXIst Annual conference of the Physiological society of India", Bankura Christian College, 2019.

Invited Speaker, "Anti-oxidative and Anti-inflammatory Potency of *Amorphophalluscampanulatus* against Ethanol Induced Tissue Damage", Indian Science Congress Association Kolkata Chapter, 2020.

Invited Speaker, "Free Radical Scavenging Activity and Hepatoprotective Efficacy of *Capsicum annum*", International Conference on Contemporary Innovative issues and Future Challenges in Physiology and Allied Sciences, 2020.

CONTACT

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EDUCATION

Ph.D. in Physiology
Calcutta University

M.Sc. in Human Physiology
Calcutta University

B.Sc.(H) in Physiology
Calcutta University

TEACHING AREA

- System Physiology
- Neuroscience
- Pharmacology
- Endocrinology

RESEARCH AREA

- Oxidative stress Physiology
- Life-style Induced Diseases
- Sports Physiology & Nutrition
- Pharmacological Approach To Nutraceuticals
- Nanoparticle

LIST OF PUBLICATIONS

Journal Publication:

1. Mitra, M., Bandyopadhyay, A., **Datta, G.**, & Nandi, D. K. (2020). Nephroprotective effect of green synthesised gold nanoparticles using bark extract of Terminalia arjuna on acetaminophen induced nephrotoxicity in male albino rat. *Int. J. Life Sci. Pharma Res*, 10(4), P22-30.
2. Mitra, M., Bandyopadhyay, A., **Datta, G.**, & Nandi, D. K. (2020). Effective Dose of Herbal Gold Nanoparticles for Protection of Acetaminophen-Induced Hepatotoxicity in Male Albino Rats. *BioNanoScience*, 10(4), 1094-1106.
3. Bandyopadhyay, A., **Datta, G.**, Dey, S.K. (2020). Relationship of Body Composition Variables with Selected Physiological Parameters of Young Sports Person of Different Games. *International Journal of Sports Science & Medicine*, 4(1), 001-009.
4. Das, M., Basu, S., Banerjee, B., Jana, K., Sen, A., **Datta, G.** (2020). Renoprotective Effect of *Capsicum annum* against Ethanol-Induced Oxidative stress and Renal Apoptosis. *Journal of Food Biochemistry*. (Published online, DOI: 10.1111/jfbc.13325).
5. Mitra, M., Bandyopadhyay, A., **Datta, G.**, & Nandi, D. K. (2019). Protective Role of Green Synthesized Gold Nanoparticles Using Terminalia arjuna against Acetaminophen Induced Hematological Alterations in Male Wistar Rats. *J Nanomed Nanotechnol*, 10(530), 2.
6. Debnath, M., Chatterjee, S., Bandyopadhyay, A., **Datta, G.**, & Dey, S. K. (2019). Prediction of athletic performance through nutrition knowledge and practice: a cross-sectional study among young team athletes. *Sport Mont*, 17(3), 13-20. doi: 10.26773/smj.191012
7. Bandyopadhyay, A., **Datta, G.**, Dey, S.K. (2019). Body Composition Characteristics and Physiological Performance Tests of Junior Elite Field Hockey Players according to Different Playing Positions. *Journal of Physical Education and Sport*, 19 (Suppl. 4), Art 212, 1460 – 1467. DOI:10.7752/jpes.2019.s4212
8. Bandyopadhyay, A., Dey, S.K., **Datta, G.** (2019). Assessment of Lean Body Tissue Composition in Young Elite Male Players of Different Sports. *European Journal of Physical Education and Sport Science*, 5(7), 64-76. DOI:10.5281/zenodo.2613529
9. Das, M., Basu, S., Banerjee, B., Sen, A., Jana, K., **Datta, G.** (2018). Hepatoprotective effects of green *Capsicum annum* against ethanol-induced oxidative stress, inflammation, and apoptosis in rats. *Journal of Ethnopharmacology*. 227, 69-81.
10. Basu, S., Das, M., Sen, A., **Datta, G.** (2018). Protective role of crude extract of *Amorphophallus campanulatus* against ethanol-induced oxidative renal damage. *Asian Journal of Pharmaceutical and Clinical Research*. 11(1), 240-250.
11. Das, M., Basu, S., Sen, A., **Datta, G.** (2017). Nutritional profile, mineral content, and *in vitro* antioxidant potency of *Capsicum annum* L. cultivated in 24 Parganas [south], West Bengal, India. *International Journal of Pharmacy and Pharmaceutical Sciences*. 9(1), 182-188.
12. Bandyopadhyay, A., Dey, S.K., **Datta, G.** (2017). Bio-electrical Impedance Analysis and its Association with Selected Physical Fitness Variables in Junior Elite Soccer Players of Different Playing Positions. *Indian Journal of Physiology and Allied Sciences.*, 71 (1), 15-29.
13. Das, M., Basu, S., Sen, A., **Datta, G.** (2016). Quantitative phytochemical screening, nutritional assessment, and antioxidant potency of two varieties of *Capsicum annum*. *Indian Journal of Physiology and Allied Sciences*. 70(3), 87-95.
14. Sen, A., Das, M., Basu, S., **Datta, G.** (2016). Socio-demographic and lifestyle determinants of smokeless tobacco consumption and its association with obesity and hypertension. *Indian Journal of Physiology and Allied Sciences*, 70(4), 163-176.
15. Sen, A., Das, M., Basu, S., **Datta, G.** (2015). Prevalence of hypertension and its associated risk factors among Kolkata-based police officers: a sociophysiological study. *International Journal of Medicinal Science and Public Health*. 4(2), 1-8.
16. Basu, S., Das, M., Sen, A., Roy Choudhury, U., **Datta, G.** (2014). Analysis of complete nutritional profile and identification of bioactive components present in *Alocasia indicatuberosa* cultivated in Howrah District of West Bengal, India. *Asian Pacific Journal of Tropical Medicine*. 7(Suppl 1), S527-S533.
17. Basu, S., Das, M., Sen, A., Roy Choudhury, U., **Datta, G.** (2014). Analysis of the complete nutritional profile of *Amorphophallus campanulatus* tuber cultivated in Howrah district of West Bengal, India. *Asian Journal of Pharmaceutical and Clinical Research*. 7(3), 25-29.

18. Basu, S., Das, M., **Datta, G.** (2013). Protective activity of ethanolic extract of *Amorphophalluscampanulatus* against ethanol-induced hepatotoxicity in rats. *International Journal of Pharmacy and Pharmaceutical Sciences*. 5 (Suppl 2): 412-417.
19. Basu, S., Das, M., Roy Choudhury, U., **Datta, G.** (2013). Identification of bioactive components in aqueous and ethanolic extracts of *Amorphophalluscampanulatus* tuber by GC-MS analysis. *International Journal of Phytomedicine*. 5(2): 243-251.
20. Basu, S., Sen, A., Das, M., Nath, P., **Datta, G.** (2012). Phytochemical evaluation and in vitro study of antioxidant potency of *Amorphophalluscampanulatus*, *Alocasiaindica*, and *Colocasiaesculenta*: a comparative analysis. *International Journal of Pharma and Bio-Sciences*. 3(3), 170 – 180.
21. Basu, S., Das, M., **Datta, G.** (2012). Phytochemical evaluation and study of in vitro antioxidant potential of ethanolic and aqueous extracts of *Amorphophalluscampanulatus*. *International Journal of Research in Pharmaceutical Sciences*. 3(2), 287-295.

Conference Proceedings:

1. Das, M., Basu, S., Sen, A., **Datta, G.** (2020). Identification of Bioactive Components and Study of Renoprotective Activity of Green *Capsicum annum* (oral). Proceedings in “International Conference on Contemporary Innovative Issues and Future Challenges in Physiology and Allied Sciences (ICCIIFCPAS-2020)”, 2020, 76.
2. Das, M., Basu, S., Sen, A., **Datta, G.** (2019). Anti-oxidative and Hepatoprotective Potency of *Capsicum annum* against Ethanol Induced Toxicity: A Comparative Analysis between Aqueous and Ethanolic Extract (poster). Proceedings in National Conference on Future India: Science and Technology, 2019, A-145.
3. Das, M., Basu, S., Sen, A., **Datta, G.** (2018). Ameliorative Effect of Green *Capsicum annum* against Ethanol Induced Hepatic Injury and Apoptosis (oral). Proceedings in “XXXth Annual conference of the Physiological Society of India”, 2018, 156-157.
4. Das, M., Basu, S., Sen, A., **Datta, G.** (2016). Protective Role of Aqueous Extract of *Capsicum annum* against Ethanol Induced Nephrotoxicity (poster). Proceedings in Indian Journal of Physiology and Pharmacology, Volume 57- No. 5, Supplement-2013.
5. Bandyopadhyay, A., **Datta, G.**, Dey, S.K. (2016). Impact of Cellular Level Body Composition Assessed by Whole-Body BIA on Functional Traits among Elite Junior Soccer Players Playing Different Positions. XXVIIIth Annual Conference of the Physiological Society of India (PSI): PHYSIOCON-2016, OP-10, pp. 95.
6. Bandyopadhyay, A., Chatterjee (nee Karmakar), S., **Datta, G.**, Dey, S.K. (2016). Effect of Intracellular Hydration on Isometric Strength & Aerobic Capacity in Different Age Groups of Elite Young Male Athletes Playing Different Sports. Indian Journal of Physiology and Pharmacology, 60(Suppl. 5), pp. 43-44.
7. Das, M., Basu, S., Sen, A., **Datta, G.** (2015). Hepatoprotective Effect of Green *Capsicum annum* against Ethanol Induced Oxidative Stress (poster). Proceedings in “XXVIIth Annual conference of the Physiological Society of India (PSI) and VIth congress of the Federation of Indian Physiological Societies (FIPS)”, 2015, 159.
8. Basu, S., Das, M., Sen, A., **Datta, G.** (2015). Hypolipidemic effect of Ethanolic extract of *Amorphophalluscampanulatus* against ethanol-induced Hyperlipidemia. Proceedings in Indian Journal of Physiology and Pharmacology, Volume 59- No. 5, Supplement-2015, 118-119.
9. Sen, A., Das, M., Basu, S., **Datta, G.** (2015). Prevalence of obesity, hypertension, and different addictive habits in two communities of Kolkata: A comparative study. Proceedings in “XXVIIth Annual conference of the Physiological Society of India (PSI) and VIth congress of the Federation of Indian Physiological Societies (FIPS)”, 2015, 148.
10. Bandyopadhyay, A., Chatterjee (nee Karmakar), S., Dey, S.K., **Datta, G.** (2015). Assessment of Lean Body Tissue Composition in Young Elite Male Players of Different Sports. XXVIIth Annual Conference of the Physiological Society of India (PSI) and the VIth Congress of the Federation of Indian Physiological Societies (FIPS): FIPSPHYSICON-2015, OP-01, pp. 99.

11. Das, M., Basu, S., Sen, A., **Datta, G.** (2014). Nutritional Profile, Mineral Content and In-vitro Antioxidant Potency of *Capsicum annum* L. Cultivated in 24 Parganas [South], West Bengal, India (poster). Proceedings in Indian Journal of Physiology and Pharmacology, Volume 58- No. 5, Supplement- 2014, 132.
12. Dey, S.K., Bandyopadhyay, A., Jana, S., Chatterjee (Karmakar), S., **Datta, G.** (2014). Assessment of Body Cell Mass in Indian Junior Elite Players of Different Sports using Bioelectrical Impedance Analysis Method. Indian Journal of Physiology and Pharmacology, 58(Suppl. 5), pp. 48.
13. Basu, S., Das, M., Sen, A., **Datta, G.** (2014). Evaluation of in vivo antioxidant potential of *Alocasiaindica* against ethanol-induced hepatotoxicity. Proceedings in Indian Journal of Physiology and Pharmacology, Volume 58- No. 5, Supplement-2014, 172-173.
14. Das, M., Basu, S., **Datta, G.** (2013). Study of antioxidant potency and identification of bioactive components in different solvent fractions of *Amorphophalluscampiculatus* (oral). Proceedings in 34th Annual Conference of Indian Association of Biomedical Scientists (IABMS). 2013, 75.
15. Das, M., Basu, S., **Datta, G.** (2013). Evaluation of Antioxidant Potential and Reno-Protective Effect of *Amorphophalluscampiculatus* against Ethanol Stress (poster). Proceedings in Indian Journal of Physiology and Pharmacology, Volume 57- No. 5, Supplement- 2013, 177-178.
16. Basu, S., Das, M., **Datta, G.** (2013). Evaluation of in vivo antioxidant potential of *Amorphophalluscampiculatus* against ethanol-induced hepatotoxicity. Proceedings in Indian Journal of Physiology and Pharmacology, Volume 57- No. 5, Supplement-2013, 250-251.
17. Basu, S., Das, M., **Datta, G.** (2013). Evaluation of antioxidant potency of *Amorphophalluscampiculatus* against ethanol-induced oxidative stress. Proceedings in 34th Annual Conference of Indian Association of Biomedical Scientists (IABMS). 2013, 73-74.