

CURRICULUM VITAE

Name : **DR. SUBHO GHOSH**
Designation : **Associate Professor**
Department of Zoology
Midnapore College (Autonomous)
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Education Qualification : **M.Sc., Ph.D**(Title of Thesis: A Cytomorphic and Biochemical Investigation on some Aspects of Vitamin A and Hormonal Modulation of Avian Adrenal Function)

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Date of Joining : 24/04/2017

➤ **Area of Teaching:**

- i) Classical mechanics
- ii) Quantum mechanics
- iii) Solid state physics
- iv) Nuclear physics

➤ **List of research papers published:**

Published Original Articles :

- Bhattacharya, S., Ghosh, R. And **Ghosh, Subho** (2017) Role of the Pineal hormone Melatonin in delaying the Ageing process, *Indian Science Cruiser* 31 (1) : 20-27 [ISSN : 0970-4256] *
- Ghosh, R. And **Ghosh, Subho** (2016) Role of Pheromones in Human Behavior. *Indian Science Cruiser* 30 (5) : 26-33 [ISSN : 0970-4256] *
- **Ghosh, Subho** (2016) Role of Avian Adrenal Medulla in Testicular Physiology : An Introspection. *Indian Science Cruiser* 30 (4) : 27-36 [ISSN : 0970-4256] *
- Ghosh, R., Roy, S., Ghosh, J., Mukherjee, A. and **Ghosh, Subho** (2016) Freshwater Fish Diversity in Bankura district of West Bengal. *Focus* 7 : 196-210 *
- Kundu, T., Bera, K., Dingal, K. Ghosh, R and **Ghosh, Subho** (2016) Role of Adrenal Gland in Counteracting Stressors : A review. *Indian Science Cruiser* 30 (3) : 44-52 [ISSN : 0970-4256] *
- Ghosh, R., Ghosh, J. And **Ghosh, Subho** (2016) Nature's most amazing gift : The unique fauna of Madagascar. *Patachitra* 2 (1) : 149 – 158 [ISSN : 2349 – 9257] *
- Bera, K. And **Ghosh, Subho** (2016) Adrenomedullin : A New Hormone discovered from Adrenal Medulla. *Indian Science Cruiser* 30 (2) : 48 – 54 [ISSN : 0970-4256] *
- Mitra, A., Seth, D. K. And **Ghosh, Subho** (2016) Thymus : An unique Endocrine gland. *Indian Science Cruiser* 30 (1) : 20-25 [ISSN : 0970 – 4256] *

- Das, D., Roy, S., Ghosh, R., Ghosh, J., **Ghosh, Subho** and Gupta, T. K. (2015) Hormonal involvement in Alzheimer's Disease : An introspection. *Indian Science Cruiser* 29 (6) : 25-31 [ISSN : 0970 - 4256] *
- Das, D., Pal, A. Roy, S. and **Ghosh, Subho** (2015) Hormones in Hypertension : An overview. *Indian Science Cruiser* 29 (5) : 17-23 [ISSN : 0970 - 4256] *
- Ghosh, R., Ghosh, J., Roy, S., Mukherjee, A. and **Ghosh, Subho**(2015) Seasonal variation of freshwater Zooplanktons in Bankura, West Bengal, India. *Indian Science Cruiser* 29 (3) : 17-21 [ISSN : 0970 - 4256] *
- Bag, A., Mondal, S., Akram, W., Kar, S., Roy, B. and **Ghosh, Subho** (2015) Role of different Vitamins in modulation of Hormone action. *Indian Science Cruiser* 29 (2) : 50-54 [ISSN : 0970 - 4256] *
- Dasgupta, A., Chakraborty, A., Konar, A. and **Ghosh, Subho** (2015) Biomedical and other applied aspects of Pheromone. *Indian Science Cruiser* 29 (2) : 47 - 54 [ISSN : 0970 - 4256] *
- Dutta, A., Ghosh, J., Roy, S., Ghosh, R. And **Ghosh, Subho** (2014) Phermones : Survival ion the wild. *Indian Science Cruiser* 28 (6) : 12-21 [ISSN : 0970 - 4256] *
- Chakraborty, S and **Ghosh, Subho** (2014) Role of Adrenal gland during Psycho - physical Stress. *Indian Science Cruiser* 28 (1) 10-15 [ISSN : 0970 - 4256] *
- Chatterjee, S. And **Ghosh, Subho** (2013) Endocrine response in Toxic induction. *Indian Science Cruiser* 27 (6) : 15 - 24 [ISSN : 0970 - 4256] *
- Chakraborty, S. And **Ghosh, Subho** (2013) Role of Pituitary in Photosexual activity in Vertebrates. *Indian Science Cruiser* 27 (1) : 36 - 43 [ISSN : 0970 - 4256] *
- **Ghosh, Subho** (2012) Many faces of Melatonin. *Indian Science Cruiser* 26 (5) : 49 - 53 [ISSN : 0970 - 4256]
- **Ghosh, Subho**(2011) Effect of a Pesrticide on the Thyro - Gonadal System of an Avian Species *Indian Science Cruiser* 25 (4) : 25 - 28 [ISSN : 0970 -4256] *
- **Ghosh, Subho** (2011) The Fascinating world of Fish Migration. *Indian Science Cruiser* 25(1) : 61 - 63 [ISSN : 0970 -4256] *
- **Ghosh, Subho** (2010) Migration in Birds *Indian Science Cruiser* 24 (4) : 14 - 16 [ISSN : 0970 -4256] *
- **Ghosh, Subho** (2010) Photosexual activities in vertebrates : Role of the Pineal Gland. *Indian Science Cruiser* 24 (1) : 37 - 40 [ISSN : 0970 -4256] *
- **Ghosh, Subho** (2009) Pheromones : Messages in the Air. *Indian Science Cruiser* 23 (2) 51 - 53 [ISSN : 0970 -4256] *
- **Ghosh, Subho** (2008) Effect of Hyperthyroidism in modulation of Adrenal Hormones under Lithium regimen. *Indian Biologist* 40 (2) : 13 - 16
- **Ghosh, Subho** (2008) Effect of the Mood - stabilizing drug Lithium chloride on the Adrenal Cortex : An Experimental approach. *Indian Biologist* 40(1) 7 - 10.
- **Ghosh, Subho** (2007) Effect of Lithium chloride on the Endocrine Pancreas of Domestic Pigeon (*Columba livia*) *Asian J, Exp. Science* 21 (2) : 325 - 328. #
- Bhattacharyya, D., **Ghosh, Subho**, Chatterjee, M., Basu A. and Sen, P.C. (2004) Mechanism of regulation of phosphorylation - dephosphorylation of Ca^{2+} , Mg^{2+} and Ca^{2+} - ATPases by modulator proteins isolated from rat brain cytosol. *Ind. J. BiochemBiophys.* 41 : 162-166 #
- Chattopadhyay, B., **Ghosh, Subho**, Gangopadhyay, P.K., Das, S.K., Sinha, K.K., Jha, D.K., Mukherjee, S.C., Chakraborty, A., Singhal, B.S., Bhattacharya, A.K. and Bhattacharyya, N.P. (2003). Modulation of

age of onset in Huntington's disease and Spinocerebellar ataxia type 2 patients originated from eastern India. *Neurosci. Lett.* 345 : 93-96. #

- Datta, G.K., Chakraborty, M., **Ghosh, Subho** and Debnath, P.K. (2002). Hepatoprotective action of a herb *Desmotrichumfimbriatum* Bl. In Swiss Albino mice during carbon tetrachloride - induced toxicity. *Biomed. Res.* 13 : 81 - 84 #
- Ghosh, A., Mukherjee, M. And **Ghosh, Subho** (2002) Stress and Avian Adrenal Function. *Biomed. Res.* 13 : 69 - 74 [Review Article]. #
- Chakraborty, M., Datta, G.K. **Ghosh, Subho** and Debnath P.K. (2001) Induction of antioxidative enzyme by the Ayurvedic herb *Desmotrichumfimbriatum* Bl. In mice. *Indian J. Exp. Biol.* 39 : 485 - 486. #
- **Ghosh, Subho**, Sengupta S. And Ghosh A. (1999). Effect of lithium in modulation of adrenal hormones in pigeon during hyperthyroid condition. *J. Animal Health* 38 : 27-29
- **Ghosh, Subho**, Sengupta, S., Chakraborty, E. And Ghosh, A. (1999). Pattern of adrenal phospholipid fractions during lithium treatment in domestic pigeon. *Indian J. Physiol. & Allied Science* 53 : 91-95
- **Ghosh, Subho**, Sengupta, S., Chakraborty, M. And Ghosh, A. (1999). Action of Lithium on Chromaffin cells of the Domestic Pigeon (*Columba livia*). *The Nucleus* 42 : 28-33 #
- **Ghosh, Subho**, Sengupta, S. And Ghosh, A. (1999) Ovarian Peroxidase and static acid activities during the Reproductive cycle *Heteropneustesfossilis* (Bloch.) *Indian J. Fish.* 46 : 107-110 #
- Sarkar, S., **Ghosh, Subho**, Sengupta, S., Dasadhikari, S. And Ghosh, A. (1999). Action of chemically different prostaglandin blockers on adrenal hormones during stress in pigeons. *Indian J. Physiol. & Pharmacol.* 43 : 84-88 #
- Chakraborty, M., **Ghosh, Subho**, Sengupta, S. And Ghosh, A. (1998). Interplay of adrenal catecholamines and phospholipids during water deprivation stress in mice. *Biogenic Amines, The Netherlands*, 14 : 607-614. #
- **Ghosh, Subho**, Sengupta, S. And Ghosh, A. (1998). Interactions of Vitamin A and Adrenocorticomedullary Hormones in Hyperglycemic stress in *Columba livia*. *Ind. J. Physiol. & Allied Science* 52 : 143 - 147.
- **Ghosh, Subho**, Sengupta, S. And Ghosh, A. (1997). Effect of acute Acid Stress on Adreno-Hormonal and Ovarian Responses of Tilapia. *Ind. J. Physiol. & Allied Sci.*, 52 : 1-6.
- **Ghosh, Subho**, Sengupta, S. And Ghosh, A. (1997). Effect of 'Chemical Adrenomedullectomy' on the Testicular Physiology of Pigeon. *Cytobios, Cambridge*, 90 : 163 - 170. #
- **Ghosh, Subho**, Sengupta, S. And Ghosh, A. (1997). The role of MAO isozymes on pigeon adrenal medulla during lithium treatment. *Biomed Res.*, 8(1) : 53 - 56. #
- **Ghosh, Subho**, Sengupta, S. And Ghosh, A. (1997) o',p' - DDD acts through thyrogonadal axis - A cytomorphologic evidence. *Ind. J. Physiol. & Allied Sci.*, 51 : 5 - 8
- **Ghosh, Subho**, Carmichael, S.W., Guha, B., Banerjee, D. And Ghosh, A. (1996). Comparative Ultrastructural study of a Adrenal Medulla in some Subtropical Avian Species. *The Nucleus*, 39 (3) : 90 - 106 #
- **Ghosh, Subho**, Sengupta, S., Dasadhikari, S., Chakraborti, E., Sarkar, S. And Ghosh, A. (1996) The role of MAO isozymes on Guanethidine - induced adrenal medullary Catecholamine release of the pigeon. *Cytobios, Cambridge*, 83 : 249 - 255. #

- **Ghosh, Subho**, Sengupta, S., Dasadhikari, S. And Ghosh, A. (1996). Relation between the Adrenals and Thyroid and their Hormones and Testicular cycle of a Subtropical Avian species. *Biol. Rhythm. Res.*, Netherlands, 27 : 216 – 226. #
- Sarkar S., Sengupta, S., Dasadhikari (Agarwal), S., **Ghosh, Subho**. And Ghosh, A. (1996). Effect of Ibuprofen, a Prostaglandin Blocker, on the Adrenal hormones of the pigeon during stress. *Nat. Acad. Sci. Letters*, 19 (5 & 6) : 129 – 131. #
- Dasadhikari (Agarwal), S., Sengupta, S., Sarkar, S., **Ghosh, Subho**. And Ghosh, A. (1994) An Adrenocorticolytic agent alters Thyrogonadal System in the Pigeon *Columba livia*. *Philippine J. Sci.*, 125 : 235 – 240 #
- Sengupta, S., Dasadhikari (Agarwal), S., Guha, B., **Ghosh, Subho**. And Ghosh, A. (1994). The role of Prostaglandin in the modulation of adrenal hormones and corticosterone in the pigeon during stress. *Biogenic Amines VSP*, Netherlands, 10 : 561 – 564. #
- **Ghosh, Subho**, Guha, B., Dasadhikari (Agarwal), S. And Sengupta, S. (1992). Can Vitamin Ameliorate Chemical and Psycho-physical stressors in domestic pigeon? An experimental study. *Proc. Zool. Soc.*, (Symp. Zool. Res. In relation to man & Environment), Suppl. A. pp. 33-38.
- **Ghosh, Subho**, Sengupta, S. And Guha, B. (1992). Does Glutathione protect pigeons from the diabetogenic action of Alloxan? An experimental study. *Proc. Zool. Soc.*, 45 : 27 – 30.

➤ **ARTICLES / PAPERS PUBLISHED IN BOOK :**

The following papers are published in a Book entitled “Environmental Awareness – An Introspection” Published in 2016 by Midnapore College (Autonomous) in association with Avenel Press, Burdwan [ISBN : 978 – 93 – 80736 – 26 – 6] :

- i) Rath, S., Jana, S., Kar, K. And **Ghosh, Subho**. Title : “The Purple Frog : A disappearing species from the Western Ghat, India”. জ্যোতির্গময়
- ii) Pal, A., Roy, S., Dinda, S.C. and **Ghosh, Subho**. Title : “Electromagnetic Radiation A new kind of pollution affecting human and the environment”.
- iii) Ghosh, J., Ghosh, R., Samanta, K., Bera, K., Dingal, K., Bera, S., Banerjee, M. And **Ghosh, Subho**. Title : “Animal Poaching : An environmental leprocy”.
- iv) Ghosh, R., Ghosh, J., Samanta, K., Dingal, K., Bera, K., Majumdar, K.N. and **Ghosh, Subho**. Title : “Bycatch : A threat to the marine wildlife and environment”.
- v) Mondal, N., Kali, D., Patra, S., Roy, T., Maity, A., Mondal, G. And **Ghosh, Subho**. Title : “The Biodiversity of Lakshadweep islands : An overview”.
- vi) Dinda, S.C., Khatua, S., **Ghosh, Subho**. And Majumdar, K.N. Title : “Indian Vulture on the verge of extinction : An introspection”.
- vii) Das, A., **Ghosh, Subho**. And Ghosh, G. Title : “Marine bioprospecting : A pandora’s box of medical compounds”.

➤ **Abstracts**

Published : 42 [40 in National and 2 in International Seminar/Symposia Proceedings]

➤ **BOOK PUBLISHED (In Bengali)**

- i) 'PranProkritiAnweshan', Collection of articles , D.P.M. Publishing Co., 2002, on Science and Wildlife Kolkata
- ii) 'Protibimbo', Collection of Poems, Science Vision, 2001, Kolkata
- iii) 'BoichitramoyPranijagat', Collection of essays, D.P.M. Publishing Co, 2004, on various facts of, Kolkata the Animal world
- iv) 'Protyoy', Compilation of writing, Dr.(Mrs.) Ira Ghosh, 2004, on Literature, Film Kolkata and Theatre
- v) 'Professor AsokGhosh : Tributes by eminent , D.P.M. Publishing Co.2004
- vi) Commemorative Volume'Persons (in English Kolkata and Bengali) in memory of Prof. AsokGhosh,-an internationally reputed Scientist and legendary teacher of the Zoology Dept. of University of Calcutta; Co-edited with Dr. Swapan Kr. Das
- vii)'AaroDaaPran' , A collection of articles , Dr.(Mrs.) Ira Ghosh, 2005, on Biomedical and Kolkata Biotechnological break-throughs
- viii) 'Bishmoye Tai Jaagey' Collection of writings Dr.(Mrs.) Ira Ghosh, 2005 on astounding facts & Kolkata breakthroughs in Science
- ix) 'Jana AamarFurabena' Essays on modern , Dr.(Mrs.) Ira Ghosh, 2007, trends of Biological , Kolkata, Research and Evolution
- x) 'Chena Prithibir ,Collection of articles on Avenel Press, 2011
- xi) 'Ajana Katha', outstanding facts of Burdwan Nature and Science , [ISBN : 978-93-80763-07-7]
- xii)'RogmuktirSandhane' , Collection of articles Avenel Press, 2014, on outstandingBurdwan Researches and [ISBN : 978-93-80761-29-9],discoveries in Biomedical Science
- xiii) 'PranijagaterNanakatha', Collection of articles on Avenel Press, 2017, the fascinating world of Burdwan Animals, [ISBN : 978-93-80736-22-8]

➤ **ACADEMIC HONOURS**

- i) Recipient of National Scholarship
- ii) M.Sc. – Gold Medalist.
- iii) Recipient of R.K. Sur Memorial Gold Medal, 1995-96 for outstanding research in Animal Physiology (The Zoological Society, Kolkata)
- iv) Honorary Life Member, National Academy of Science, Allahabad [M.N.A.Sc.]
- v) Honorary Fellow, The Zoological Society, Kolkata, 2007 [F.Z.S.(Cal.)]
- vi) Felicitation: Felicitated and received "VivekVaniSamman, 2010" from 'BibekAnanderSatsang' (Kolkata), a philanthropic organisation for "Commitment to Science and Service (2010).

➤ **Fellowships / Appoinments Previously Enjoyed:**

- i) Project Assistant (UGC) in Department of Zoology, University of Calcutta from April 1991 to April 1992 awarded by the UGC.
- ii) Research Assistant (part-time; CSIR) in Department of Zoology, University of Calcutta from 1993 to 1994.
- iii) Senior Research Fellow of LabonyaProva Bose Trust, Kolkata in Department of Zoology University of Calcutta from August, 1995 to August, 1997.
- iv) Part-time Lecturer in Zoology in Department of Zoology, Asutosh College, Kolkata from August, 1997 to January, 1998 [Subjects : Histology, Histochemistry, Biochemistry]
- v) Hony. Post-Doctoral Research Worker in the Department of Zoology, University of Calcutta from September, 1997 to December, 1997.
- vi) Post-Doctoral Fellow in the Department of Chemistry, Bose Institute, Kolkata (sponsored by Department of Biotechnology, Government of India) from January, 1998 to January, 2000.
- vii) Research Associate (CSIR) in the Department of Chemistry, Bose Institute, Kolkata from January, 2000 to January, 2001.
- viii) Senior Research Associate (DBT) in the Crystallography and Molecular Biology Division at Saha Institute of Nuclear Physics, Kolkata from March, 2001 to July, 2002.
- ix) Research Associate (CSIR) in the Neurobiology Division at Indian Institute of Chemical Biology, Kolkata from August, 2002 to February, 2004.
- x) Lecturer in Post-graduate and Under-graduate Department of Biotechnology, Institute of Genetic Engineering, Kolkata from October, 2003 to March, 2005.
- xi) Academic Counsellor in Environmental Science, Indira Gandhi National Open University (IGNOU), Dinabandhu Andrews College Study Centre, Kolkata from 2002 to 2005.
- xii) Guest Teacher, Post Graduate Department of Zoology, Dinabandhu Andrews College, Kolkata from 2001 to 2016.

➤ **MEMBERSHIP OF LEARNED SOCIETIES :**

- i) The National Academy of Sciences, India (M.N.A.Sc.)
- ii) Indian Science Congress Association (Life Member)
- iii) The Zoological Society, Kolkata (Life member & Ex-Member, Executive Committee)
- iv) The Physiological Society, Kolkata
- v) BangiyaBijnanParishad, Kolkata (Life Member)
- vi) Institute of Science, Education & Culture (ISEC), Kolkata(Life Member)
- vii) West Bengal College & University Teachers Association (WBCUTA), PaschimMedinipur District Committee, Midnapore

➤ **INVITED TALK :**

Delivered a lecture at the 8th Annual Meeting of the 'Central Calcutta Society for the Advancement of Human Development' (SreeAurobindoSeva Kendra, Kolkata, Dec. 2000)

➤ **CITATIONS :**

- i) 'Avian Physiology' – P.D. Sturkie, Academic Press, N.Y., USA (2000)
- ii) 'Adrenal Medulla' Vol.7 – S.W. Carmichael and S. Stoddard, Telford Press N.J., USA

➤ **CONTRIBUTION IN PRESTIGIOUS PUBLICATION :**

Contributed in writing of some definition and terminologies related to biological sciences in '*Bishwakosh*' (Bengali Encyclopedia), Vol. II, published by BishwakoshParishad, Kolkata, 1993.

➤ **BRAOD AREA(S)OF RESEARCH :**

Comparative Endocrinology, Reproductive Physiology, Microbial Biotechnology, Molecular Enzymology, Human Genomic Studies, Molecular Neurobiology, Bio-efficacy of Natural Products.

