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Dr.Sangita Maiti Dutta

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Personal Details

Date of Birth: 16.08.1979
Sex: Female
Nationality: Indian

Academic Details

Sl. No.	Degree	Specialization	Year of passing	Institution	Board/ University	% of Marks
1	Phd	Ecotoxicology, Biochemistry	2016	Vidyasagar University	Vidyasagar University	
2	M.Sc.	Zoology (Genetics Special)	2001	University of Calcutta	University of Calcutta	61.3%
3	B.Sc.	Zoology	1999	Midnapore College	Vidyasagar University	69%
4	H.S. (10+2)	Bio, Phy, Chem, Math, Eng, Bng	1996	Mission Girls High School	W.B.C.H.S .E	67.2%
5	Madhyamik (10^{th})	PSc, LSc. ,Math, Geo, His, Bng, Eng	1994	Aligunj Rishi Raj Narayan Balika Vidyalaya	W.B.B. S.E	80%

PhD Details

PhD Thesis Title: **Assessment of the effect of thermal stress on a fresh water potential bioindicator mollusc species through suitable biochemical and molecular biomarker.**

Guide's Name: **Dr. Susanta Chakraborty,** Professor, Department of Zoology, Vidyasagar University, Midnapore.

Prof. Sanghamitra Raha, Professor, Crystallography and Molecular Biology Division, Saha Institute of Nuclear Physics, Kolkata, West Bengal.

University: **Vidyasagar University,**

Date of Award: **August 16, 2016**

Teaching Experience

1. **January 2018- Continuing:** Working as **Assistant Professor** of Zoology, Department of Biological Science, **Midnapore City College,** Midnapore
2. **September 2017- December 2017:** Working as **Guest Lecturer** in Zoolgy, Department of Biological Science, **Midnapore City College**, Midnapore
3. **August 2011-March 2013**:Workingas a **Guest lecturer** in Department of Zoology, **Midnapore College**, Midnapore, West Bengal, India.
4. **December 2004-June 2008:** Working as a **Part time lecturer** in Department of Zoology, Midnapore College, West Bengal, India.

Climate change due to global warming is a serious problem now days. So it is very much essential to relate this change with temperature increasement.
The population density and other biological parameters of animals are very much affected for this. The physic- chemical structure of soil and water also changes their pattern. So it is very much essential to relate this change with increase of temperature. Any kind of environmental perturbation affects animal survivality and reproducibility. Antioxidant systems protect our body from reactive oxygen species that produce at the time of stress. Heat Shock protein, the molecular chaperone protect us from any stress. So my main interest is to study the changes and modifications of antioxidative parameters and also to find out the HSP 70 expression in lower to higher

Teaching Interest

- Genetics and Molecular biology
- Biochemistry
- Ecotoxicology

Achievements

1. Qualified GATE in **2002**
2. Recipient of **UGC RFSMS Fellowship** from 2008-2011.

Expertise

- Toxicology & Eco-toxicological Research
- Biochemical Assays
- Gene expression Studies

Publications

1. Maiti S. **MaitiDutta S** & Chen G (**2021**) Regulations of expressions of rat /human sulphotransferases by anticancer drug, nolatrexed, and micronutrients. *Anticancer Drugs*. **DOI**:10.1097/CAD.0000000000001155

2. **MaitiDutta, S**., Chen, G., & Maiti, S. **(2020).** Profiles of two glycaemia modifying drugs on the expression of rat and human sulfotransferases. *Current Drug metabolism.* **DOI** : 10.2174/1389200221666201130123837

3. **MaitiDutta, S**., Chen, G., & Maiti, S. **(2020).** Tocopherol Moderately Induces the Expressions of Some Human Sulfotransferases, which are Activated by Oxidative Stress. *Cell Biochemistry and Biophysics*, 1-8.
4. Manna, B., **MaitiDutta, S**., Dalapati, S., & Maiti, S. **(2020)**. Oxidative Stress Induced Toxicity and DNA Stability in Some Agri-Field Based Livestock/Insect by Widely Used Pesticides. *Combinatorial chemistry & high throughput screening*.
5. Ali, S. S., Medda, N., **MaitiDutta, S**., Patra, R., & Maiti, S. (**2020**). Protection against Mitochondrial Oxidative-Stress by Flesh-Extract of Edible Freshwater Snail Bellamya bengalensis Prevents Arsenic Induced DNA and Tissue Damage. *Anti-cancer Agents in Medicinal Chemistry*.
6. Maiti, S., **MaitiDutta, S**., & Chen, G. (**2020**). Regulations of expressions of rat/human sulfotransferases (SULTs) by anti-cancer drug, nolatrexed and micronutrients. ***BioRxiv*.**
7. **Dutta, S. M**., Mustafi, S. B., Raha, S., & Chakraborty, S. K. (**2018**). Biomonitoring role of some cellular markers during heat stress-induced changes in highly representative fresh water mollusc, Bellamya bengalensis: Implication in climate change and biological adaptation. *Ecotoxicology and environmental safety*, *157*, 482-490.
8. **Dutta, S. M**., Mustafi, S. B., Raha, S., & Chakraborty, S. K. **(2014**). Assessment of thermal stress adaptation by monitoring Hsp70 and MnSOD in the freshwater gastropod, *Bellamya bengalensis* (Lamark 1882). *Environmental monitoring and assessment*, *186*(12), 8961-8967.
9. Chakraborty, S. K., **Dutta, S. M**., Ghosh, P. B., Ray, R., & Paul, A. K. (**2014**). Impact of global warmingon sundarbans mangrove ecosystem, India: role of different assessment tools from ecosystem monitoring to molecular markers. In *Proceedings of the International Conference on Green India: Strategic Knowledge for Combating Climate Change–Prospects and Challenges. Pondicherry University. Excel India Publishers* (pp. 181-200).

10. Maiti S, **Dutta SM,** Chen G (**2014**) Apoptosis inducing anthraquinone rhein and emodin differentially suppress human dehydroepiandrosterone sulfotransferase (hSULT2A1) and phenol sulfotransferases (hSULT1A1) in Hep-G2 and Caco-2 cells. *Mediterranean Journal of Nutrition and Metabolism*, *7*(3),145-153.
11. **Dutta, S. M**., Maiti, S., & Chen, G. **(2008)**. Effect of folic acid on methotrexate induction of sulfotransferases in rats. *Drug metabolism letters*, *2*(2), 115.
12. Maiti, S., **Dutta, S. M.,** Baker, S. M., Zhang, J., Narasaraju, T., Liu, L., & Chen, G. **(2005**). In vivo and in vitro oxidative regulation of rat aryl sulfotransferase IV (AST IV). *Journal of biochemical and molecular toxicology*, *19*(2), 109-118.