

Curriculum Vitae

1. **Name:** DR. SALMA KHATUN
2. **Present Designation:** ASSISTANT PROFESSOR
3. **Full address:** Department of Zoology, Krishna Chandra College, Hetampur, Birbhum, Pin 731124
4. **Email ID:** skhatun14.14@gmail.com
5. **Date of birth:** 25th April, 1990
6. **Gender:** Female
7. **Whether differently abled (Yes/No) :** No
8. **Date of Joining:** 11th November, 2019
9. **Educational qualification:** M.Sc. B.Ed, Ph.D



NAME OF DEGREE	YEAR OF PASSING	DETAILS
Ph.D.	2018	Completed Ph.D. from the university of burdwan under supervision of Dr. Sumedha Roy in reproductive toxicology.
B.Ed.	2014	Received B.Ed (Bachelor in education) degree from Nikhil Banga Sikshan Mahavidyala, Burdwan University
M.Sc.	2012	Received M.Sc. degree (Maters in Science) in Zoology from Burdwan university, Budwan, West Bengal, India. Specialized in Molecular biology and genetics
B.Sc.	2010	Received B.Sc. degree (Hons) in Zoology from Burdwan University, Burdwan, West Bengal, India.
H.S.	2007	Passed H.S. under WBCHSE
MP	2005	Passed MP under WBCHSE

10. Specialization: Toxicology

11. Languages Kown: Bengali, English, Hindi

12. Awards:

A. Awarded by Maulana Azad National Fellowship under UGC in 2014.

B. Qualified West Bengal SET.

13. Ph.D. Details:

Title: Sodium fluoride: its effect on reproductive biology of *Drosophila melanogaster*

Name of Supervisor: Dr. Sumedha Roy

Name of University: The University of Burdwan

Awarded on 13th December, 2018.

List of publication

Peer reviewed research article:

[1] **Khatun, S.,** Rajak, P., Dutta, M., Roy, S., 2017. Sodium fluoride adversely affects ovarian development and reproduction in *Drosophila melanogaster*. **Chemosphere.** 186, 51-61.

Impact Factor: 5.108

[2] **Khatun, S.,** Mandi, M., Rajak, P., Roy, S., 2018. Interplay of ROS and behavioral pattern in fluoride exposed *Drosophila*. **Chemosphere.** 209, 220-231.

Impact Factor: 5.108

[3] Sarkar, S., **Khatun, S.,** Dutta, M., Roy, S., 2017. Trans-generational transmission of altered phenotype resulting from flubendiamide-induced changes in apoptosis in larval imaginal discs of *Drosophila melanogaster*. **Environmental Toxicology & Pharmacology.** 56, 350–360.
<http://dx.doi.org/10.1016/j.etap.2017.11.001>

Impact Factor: 2.084

[4] Rajak, P., **Khatun, S.,** Dutta, M., Mandi M., Roy, S., 2018. Chronic exposure to acephate triggers ROS mediated injuries at organismal and suborganismal levels of *Drosophila melanogaster*. **Toxicology Research.** DOI: 10.1039/c8tx00052b

Impact Factor: 1.939

[5] Dutta, M., Rajak, P., **Khatun, S.,** Roy S. 2016. Toxicity assessment of sodium fluoride in *Drosophila melanogaster* after chronic sub-lethal exposure. **Chemosphere.** 166:255-266.

Impact Factor: 5.108

- [6] Rajak, P., Dutta, M., **Khatun, S.**, Mandi, M., Roy, S., 2016. Exploring hazards of acute exposure of Acephate in *Drosophila melanogaster* and search for l-ascorbic acid mediated defense in it. **Journal of Hazardous Materials**. 321: 690-702.

Impact Factor: 7.650

- [7] Mandi, M., **Khatun, S.**, Rajak, P., Mazumdar A., Roy, S., 2020. Potential risk of organophosphate exposure in male reproductive system of a non-target insect model *Drosophila melanogaster*. **Environmental Toxicology & Pharmacology**. 74, 103308.

Impact Factor: 2.084

- [8] Rajak, P., Ganguly, A., Sarkar, S., Mandi, M., Dutta, Podder, **S., Khatun, S.**, Roy, S., Immunotoxic role of organophosphates: An unseen risk escalating SARS-CoV-2 pathogenicity. 2021. **Food and Chemical Toxicology**. 149: 112007.

Impact Factor: 5.72

- [9] Rajak, P., Roy, S., Ganguly, A., Mandi, M., Dutta, A., Das, K., Nanda, S., Sarkar, S., **Khatun, S.**, Ghanty, S., Biswas, G., .Protective Potential of Vitamin C and E against Organophosphate Toxicity: Current Status and Perspective. 2022. **Journal of Ecophysiology and Occupational Health**. 22(3):141-154.

Impact Factor: 0.68

- [10] Rajak, P., Roy, S., Podder, S., Dutta, M., Sarkar, S., Ganguly, A., Mandi, M., Dutta, A., Nanda, S., **Khatun, S.**, Synergistic action of organophosphates and COVID-19 on inflammation, oxidative stress, and renin-angiotensin system can amplify the risk of cardiovascular maladies. 2022. **Toxicology and Applied Pharmacology**. 456: 116267.

Impact Factor: 4.46

- [11] Rajak, P., Roy, S., **Khatun, S.**, Mandi, M., Ganguly, A., Das, K., Dutta, A., Nanda, S., Ghanty, S., Biswas, G., Fluoride Contamination, Toxicity and its Potential Therapeutic Agents. 2022. **Toxicology International**. 29 (04) 553-565.

Impact Factor: 0.38

Paper presented and abstract published in International & National seminar/conferences/Workshop:

International:

1. **Salma Khatun**, Moumita Dutta and Sumedha Roy. “Fluoride: It’s effect on fecundity and reproduction in *Drosophila melanogaster*”. **International Seminar, Exploring the modern approach in biological science: From Genome to Organism**. Held on 25th-27th November, 2015. Organized by Department of Zoology, Sidho-Kanho-Birsha University, Purulia, West Bengal.
2. **Salma Khatun** and Sumedha Roy. “Sodium Fluoride: It’s effect on larval and adult behaviours in *Drosophila melanogaster*.” **XXXIII conference of International Society for Fluoride Research on Debilitating fluorosis: Current status, Health Challenges and & Mitigation**. Held on 9th-11th November, 2016. Organized by International Society for Fluoride Research in association with National Institute of Nutrition, Hyderabad, India
3. **Salma Khatun** and Sumedha Roy, “Sodium fluoride: its effect on ovarian homeostasis in *Drosophila melanogaster*” **Symposium on gene environment interaction in Disease, development and evolution**. Held on 5th-6th March, 2017, Organized by Department of Zoology, Institute of Science, Banaras Hindu University.

National:

4. **Salma Khatun** and Sumedha Roy. “Long term stress of sodium fluoride on fecundity in *Drosophila melanogaster*.” **22nd West Bengal State Science and Technology Congress 2015**, North Bengal University, West Bengal.
5. **Salma Khatun**, Moumita Dutta, Prem Rajak and Sumedha Roy, “Sodium fluoride induced stress response and its amelioration with vitamin C.” **National conference on advances of life sciences and radiation biology**. Held on 17th-18th February, 2017, Organized by Department of Zoology, The University of Burdwan, Burdwan, West Bengal.

6. **Salma Khatun** and Sumedha Roy, “Sodium fluoride induced alterations in male reproductive structures of *Drosophila melanogaster*”. **National level seminar on Spare the nature; Make the earth green (UGC sponsored)**. Held on 5th -6th January, 2017, Organized by Sonamukhi College, Bankura, West Bengal.
7. **Salma Khatun** and Sumedha Roy, “Fluoride adversely affects reproductive physiology of *Drosophila melanogaster*”. **25th West Bengal State Science & Technology Congress**. Held on 4th -5th March, 2018, Organized by Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal.

Workshop:

Workshop on Epigenetics techniques as tools for cancer research. Held on 17th-19th February, 2016. Organized by Epigenetics and Cancer Research Laboratory, Department of Life Science, National Institute of Technology, Rourkela, Odisha, India.