

CURRICULUM VITAE (CV)

UTSAB SINGHA

M.Sc. (Zoology), SLET

Ph.D (Life Science & Bioinformatics)



Objectives:

To secure a position as a teacher and utilize my dedication to foster quality education required for development of the society.

Current Position:

Assistant Professor in the Department of zoology, at The Assam Royal Global University, Guwahati, Assam.

Personal Details:

NAME IN FULL	: DR. UTSAB SINGHA
FATHER'S NAME	: LT. MAHENDRA CHANDRA SINGHA
MOTHER'S NAME	: LT. MALOTI RANI SINGHA
DATE OF BIRTH (DD-MM-YYYY)	: 01-JANUARY-1985
RELIGION	: HINDUISM
NATIONALITY	: INDIAN
SEX	: MALE
ADDRESS FOR CORRESPONDENCE	: C/O: BHAJAN LAL SINGHA P.O. & VILL: BROJAPUR (PART-II) DIST: HAILAKANDI, STATE: ASSAM PIN:788155
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E-MAIL:	: singha.utsab@gmail.com
AREA OF SPECIALIZATION	: MOLECULAR GENETICS, ENVIRONMENTAL TOXICOLOGY.

Academic Profile:

Name of the Exam	Subjects/Area of specialization	Board/Council/University	Year of passing	Division /Class	% of Marks
HSLC	Bengali, Mathematics, Physics, Chemistry, Biology, English, Social Science, Hindi, Sanskrit (Opt)	Bihar School Examination Board, Patna	2000	Second	57%
HS (Science)	Biology, Chemistry, Physics, English, MIL(Bengali)	AHSEC, Guwahati	2005	Second	52.2%
B.Sc. (Zoology Hons)	ZOOH, CHMP, FISVP, ENGG, FCES	Assam University, Silchar	2009	Second	55.38%
M.Sc. (Life Science)	Life Science (Zoology), Specialized in Molecular Genetics	Assam University, Silchar	2011	First	73.25%
Integrated Pre-PhD (IPP)	Research Methodology	Assam University, Silchar	2012	First	65.75%

Professional Recognition/Award/Fellowship:

Sl. No.	Name of Award	Awarding Agency	Year
1	SLET-NE	UGC	2018
2	UGC-BSR Fellowship	UGC	2013-2018

Teaching Experience:

Sl. No.	Name of the Institute	Status of the Institute	Period of Teaching	Position Held
1	Assam University Diphu Campus (AUDC)	Central University	March, 2019 to May 2020	Assistant Professor (Guest Faculty)
2	Silapathar Science College	Affiliated to Assam Science & Technology University (ASTU)	January, 2021 to October 2022	Assistant Professor
3	The Assam Royal global University	Private University	October 2022 to till date	Assistant Professor

Project Work:

M.Sc Special paper project (For the partial fulfillment of M.Sc. Degree) entitled “*Genotoxic Effect of Sodium Arsenite on Indian Cricket Frog*”. (Project duration: 6 months).

Publications:

Research Articles:

1. **Singha U**, Choudhury AS, Chakravarty H, Mazumder MK, Barbhuiya SA. (2020). Status, Threats, and Conservation of the Mega-Reptilian Fauna of Southern Assam, India. *Journal of the Bombay Natural History Society* 117(2020) 90-98. **Print ISSN: 0006-6982; Online ISSN: 2454-1095. (Impact Factor: 0.21).**
2. **Singha U**, Pandey N, Boro F, Giri S, Giri A, Biswas S. (2014). Sodium arsenite induced changes in survival, growth, metamorphosis and genotoxicity in the Indian cricket frog (*Rana limnocharis*). *Chemosphere* 112 (2014) 333–339. **ISSN: 0045-6535 (Impact Factor: 7.09).**
3. Bhuyan K, Patar A, **Singha U**, Giri S, Giri A. (2020). Phenanthrene alters oxidative stress parameters in tadpoles of *Euphlyctis cyanophlyctis* (Anura, Dicroglossidae) and induces genotoxicity assessed by micronucleus and comet assay. *Environmental Science and Pollution Research*. **ISSN: 0944-1344 (Impact factor: 3.06).**
4. Yadava SS, Giri S, **Singha U**, Boro F, Giri A. (2013). Toxic and genotoxic effects of Roundup on tadpoles of the Indian skittering frog (*Euflyctis cyanophlyctis*) in the presence and absence of predator. *Aquatic Toxicology* 132–133 (2013) 1–8. **ISSN: 0166-445X (Impact Factor: 4.34).**
5. Patar A, Giri A, Boro F, Bhuyan K, **Singha U**, Giri S. (2016). Cadmium pollution and amphibians - Studies in tadpoles of *Rana limnocharis*. *Chemosphere* 144 (2016) 1043-1049. **ISSN: 0045-6535 (Impact Factor: 7.09).**
6. Mazumder KM, Boro F, Barbhuiya B, **Singha U**. (2014). A study of the winter congregation sites of the Gangetic River Dolphin in southern Assam, India, with reference to conservation. *Global Ecology and Conservation* 2 (2014) 359–366. **ISSN: 2351-9894 (Impact Factor: 3.38)**

Book Chapters:

1. Roy N and **Singha U**. ZnO Nanostructures: Properties, Synthesis, and Characterizations. In: Sunayana Goswami (Ed.). *Metal Oxide Nanomaterials: Material and Biological Prospects*. (2020). Chapter 1, pp: 1-26. Glasstree Academic Publishing, USA. **ISBN 978-1-716-36036-7.**
2. **Singha U**, Bodo F, Goswami S. Eco-friendly implication of Zinc oxide Nanoparticles and their Biological Prospect. In: Sunayana Goswami (Ed.). *Metal Oxide Nanomaterials: Material and Biological Prospects*. (2020). Chapter 6, pp: 95-106. Glasstree Academic Publishing, USA. **ISBN 978-1-716-36036-7.**
3. Paul S, **Singha U**, Choudhury S, Goswami S. Application of Nanoparticles in the Prospect of Remediation Strategy. In: Ashok Kumar Acharya (Ed.). *Research Trends in Chemical Sciences*. (2020). Chapter 6, pp: 107-125. AkiNik Publications, Delhi-110085, India. **ISBN: 978-93-90420-17-9.**

Ph.D Details:

Thesis Title: “*Effect of Environmental Contaminants on Anuran Amphibians with special reference to Genotoxicity, Prey-Predator Interactions and Host-Parasite Relationships*”

Supervisor: Dr. Anirudha Giri (Professor), Department of Life science & Bioinformatics, Assam University, Silchar.

Date of Award: 23rd December, 2019.

Presentation in Conference/Seminar/Hands on training/Workshop:

- **Presented a paper titled** “Co-exposure of Sodium nitrate along with trematode parasites induce changes in various life history traits of Anuran amphibians *Polypedates maculatus*” at **International Conference** on Biotechnology & Biological Sciences (BIOSPECTRUM, 2020) held from November 19-21, 2020, Organized by Department of Biotechnology, University of Engineering & Management, Kolkata in collaboration with SMART Society, USA.
- **Presented a paper titled** “Sodium nitrate-induced changes in various life history traits and predator avoidance behaviour of the Anuran amphibians *Rana limnocharis*” at **National Seminar** on Advances in Biodiversity and Traditional knowledge for Sustainable Development: Special Reference to N.E. India (ABITRAK-N.E. 2020), held from August 10-11, 2020, Organized by Department of Department of Botany, Biswanath College, Chariali, Assam.
- **Presented a paper titled** “Synergism between environmental contaminants and parasitic infection in Anuran amphibians” at **National Seminar** on Recent Trends in Ecological Research (RTER-2019), held from March 5-7, 2019, Organized by Department of Ecology and Environmental Science & Centre for Biodiversity and Natural Resource Conservation, Assam University, Silchar, Assam.
- **Presented a paper titled** “Effect of Sodium nitrate in tadpoles of *P. maculatus* and *R. limnocharis*” at North East Regional Research Scholars’ Meet held on March 17-18, 2017, Organized by Department of Life Science & Bioinformatics, Assam University, Silchar, Assam, Sponsored by UGC-SAP (DSR-II).
- Participated National Workshop on “**Applied Environmental Toxicology**” organized by Dept. of Life Science and Bioinformatics, Assam University, Silchar, Assam, India on 23rd of November, 2012.
- Participated National Workshop and Hands-on Training Programme in “**Modern Molecular Techniques in Biology**” during 25th to 27th April, 2012 sponsored by DBT-CSIR, Govt. of India, held at Assam University, Silchar.
- Participated workshop on “**Statistical Tools in Scientific Research**” during 7th to 12th April, 2012 sponsored by Dept. of Biotechnology, Govt. of India, held at Assam University, Silchar, India.
- Participated National Seminar on “**Current Trend of Wildlife Research in India with Special Reference to Herpetology**” held during 10-11 March, 2012, sponsored by UGC-SAP (DRS), Organized at North Orissa University, Orissa, India.

- Participated in the “**5th DST-SERB School in Herpetology**” from 24th February to 9th March, 2012 held at North Orissa University, Orissa, India.
- Participated the Training Programme on “**Management of Floodplain Wetlands**” conducted by the Northeastern Regional Centre, CIFRI, Guwahati, Assam during 3rd to 9th January, 2008.

Laboratory Expertise:

Histological slides preparation, Differential count of WBC and RBC from blood smear preparation, Chromosome staining and banding techniques, Micronucleus (MN) Assay, Comet assay for detection of DNA damage, Parasitic infection Assay, Alcian blue and Alizarin red staining for bone and cartilage, Gel electrophoresis Techniques.

Technical Skills:

- Applications: MS Office 2010, Internet, DTP (Pagemaker, CorelDraw, Photoshop), English and Regional Typing, Tally, Different E-mail Packages.
- Operating Systems: Windows XP, Windows Vista, Windows 7, Windows 10.

References:

Dr. Anirudha Giri [Ph.D Supervisor]
(Professor)
Environment and Human Toxicology
Laboratory,
Department of Life Science &
Bioinformatics,
Assam University, Silchar-788011
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Dr. Sarbani Giri (Professor)
Laboratory of Molecular and Cell Biology,
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Bioinformatics,
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Declaration:

I hereby declare that the above information furnished by me is true to the best of my knowledge and belief.

Date: 02-08-2021
Place: Hailakandi

(Dr. Utsab Singha)