

FULL ACADEMIC VITAE



Dr. T. Sarita Achari

Assistant Professor (Stage-I),

HOD Zoology

Dept. of Zoology, S.K.C.G. (Auto) College

Paralakhemundi -760007, Gajapati, Odisha

Qualification: M. Sc., M. Phil, Ph. D

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Educational Qualification

Doctorate of Philosophy (Zoology) 2021

Berhampur University, Berhampur-760007

Master of Philosophy (Zoology) 2014

Berhampur University, Berhampur-760007

Master in Science (Zoology) 2012

Berhampur University, Berhampur-760007

Other qualification and achievement-

Cleared CSIR-UGC NET in Dec 2017

Area of Research and Specialization

Mosquito Vector Biology and mosquito vector control

Cell and Molecular Biology

Professional Affiliation

- Assistant Professor, Department of Zoology, S.K.C.G (Auto) College since from 12.01.2024.
- Lecturer, Science College (Auto) Hinjilicut from 23.05.2022 to 11.01.2024

Membership of Academic Bodies

- Member: Board of Studies, Department of Zoology, SKCG (Auto.) College, Paralakhemundi, Gajapati, Odisha.
- Life member-Alumni Association, P.G. Dept. of Zoology, Berhampur University

Research articles published in international/ national journals:

- **Achari TS, C Panda, Barik TK (2021)** Biochemical response of *Aedes aegypti* and *Aedes albopictus* mosquitoes after exposure to thermal stress and toxin of *Bacillus thuringiensis israelensis*. ***International Journal of Tropical Insect Science***.
- Nayak S, Swain SN, **Achari TS**, Barik TK (2021) Community Perception Regarding Mosquito-Borne Diseases in Some Selected Areas of Ganjam District of Odisha State, India. ***International Quarterly of Community Health Education***, 0 (1-6)
- Bhuyan KB, **Achari TS**, Barik TK (2020) Susceptibility assessment of F₁ progeny of irradiated *Aedes aegypti* to toxins of *Bacillus thuringiensis*. ***Journal of entomological research***, 44 (2): 257-259

- **Achari TS** and Barik TK (2019) Assessment of Temperature-induced Cross-tolerance to *Bacillus thuringiensis subsp. israelensis* on Field-collected *Aedes albopictus*. *Biopestic. Int.*, 15(2):97-104.
- Barik TK, **Achari TS**, Padhy S, Sahu B, Acharya UR (2018) Role of Thermal Stress on Development of Cross Tolerance to Toxins of *Bacillus thuringiensis* in Wild *Culex quinquefasciatus* *Journal of entomological research* 42 (1) : 67-74.
- **Achari TS**, Barik TK, Acharya UR (2017) Impact of thermal stress on survival and induced cross tolerance to toxins of *Bacillus thuringiensis* in wild *Aedes aegypti*. *ternational Journal of Biosciences*, 11(1):156-164.

Book chapters published

- **Achari TS**, Barik TK, Acharya UR (2020) “ Toxins of *Bacillus thuringiensis*: A novel microbial insecticide for mosquito vector control” . **Springer nature**. pp.89-116.978-981-15-9455-7
- KB Bhuyan, AA Sahu, **TS Achari**, TK Barik (2020) “ Application of radiation for the management of mosquito vectors.” **Springer nature**.pp.209-225. 978-981-15-9455-7
- **Dengue** in the book entitled “ Human Diseases” , **Hamburg, Anchor Academic Publishing 2017. Germany**.pp.35-45 ISBN: 978-3-96067-674-4.
- **Amoebiosis** in the book entitled “ Human Diseases” , **Hamburg, Anchor Academic Publishing 2017.Germany**. pp. 86-92. ISBN: 978-3-96067-674-4.

Refresher Course

- Refresher course in Zoology from North Eastern Hill university (21st November 2022 to 5th December 2022) in online mode & obtained Grade A

Programme organized

Organized a awareness programme and Seminar on the occasion of “ World Sickle Cell Day” on 19th June, 2024 in Department of Zoology, S.K.C.G. (Auto) College, Paralakhemundi

Seminars/Conferences/Workshops/Short-term Courses attended

- Participated the UGC Stride Workshop on “ Molecular Phylogeny and Molecular Docking” Organized by Mizoram University Aizawl, Mizoram and Sponsored by UGC, January 19th -27th, 2021.
- **TS Achari**, C Panda, TK Barik (2020) Assessment of temperature induced cross-tolerance to *Bacillus thuringiensis* subsp. *israelensis* (Bti) on field collected Aedes mosquito in: National seminar on “ Advances and challenges in Biological sciences” [ACBS-2020] at P.G. Dept of Zoology, Berhampur university, 12th -13th Feb 2020.
- Presented an Abstract entitled “ Biochemical assessment of detoxifying enzyme levels in field collected *Aedes aegypti* mosquitoes after exposure to temperature and insecticide *Bacillus thuringiensis subsp. israelensis*” . **TS Achari** and Tapan K Barik in “ Vector borne diseases: Evolution to elimination” on the occasion of 14th **International conference** on vectors and vector borne diseases organised by ICMR- Regional Medical research Centre, Bhubaneswar and NAVBD at RMRC Bhubaneswar, 9th -11th January **2019**.

- Participated the Research Methodology Workshop on the event of RSM-OHEPEE funded by World Bank at Berhampur university, Bhanjabihar, February 12th -16th, **2019**.
- Presented an Abstract entitled Evaluation of sub-lethal effects of *Bacillus thuringiensis israelensis* on life history traits of *Aedes aegypti*. **TS Achari** and Tapan K Barik in the National seminar on “ Science for society” on the occasion of 20th Odisha Bigyan O’ Paribesh Congress at NISER Bhubaneswar , 17th -18th November **2018**.
- Presented an Abstract entitled Evaluation of temperature and Bti induced effects on certain life history traits of field collected *Aedes albopictus* **TS Achari** and Tapan K Barik in the National seminar on “ Reaching the unreached through science and technology” Organized by the Indian Science Congress Association, Bhubaneswar Chapter, at KIIT University Bhubaneswar from 17th -18th December **2017**.
- Presented an Abstract entitled Field survey for indoor and outdoor breeding sites of Anopheles mosquito in Ganjam district of Odisha, India. Sisir Kumar Nayak, **TS Achari** and Tapan K Barik in the National seminar on in the National seminar on “ Reaching the unreached through science and technology” Organized by the Indian Science Congress Association, Bhubaneswar Chapter, at KIIT University Bhubaneswar from 17th -18th December **2017**.
- Presented an Abstract entitled “ Evaluation of oviposition behavior of field collected Anopheles mosquitoes in laboratory condition” . Sisir Kumar Nayak, **TS Achari** and Tapan K Barik in the National seminar on “ Science and Technology for Environment” on the occasion of 19th Odisha Bigyan O’ Paribesh Congress at KIIT university, 25th -26th November **2017**.

- Presented an Abstract entitled Assessment of temperature and toxins of *Bacillus thuringiensis israelensis* induced effects on development rate and reproductive activity of wild *Aedes aegypti*. **TS Achari** and Tapan K Barik in the National seminar on “ Science and Technology for Environment” on the occasion of 19th Odisha Bigyan O’ Paribesh Congress at KIIT university, 25th -26th November **2017**.
- Presented an Abstract entitled “ Effect of Temperature Stress and induced Cross Tolerance to toxins of *Bacillus thuringiensis* in wild Culex mosquitoes” . Tapan K Barik, **TS Achari**, Shyamasundari Padhy, Bijayalaxmi Sahu, UR Acharya in the **International conference** on “ Recent trends of chemical and biological science in medicine,natural product and drug discovery” (IC-RTCBSMNPDD-2017)at P.G. Dept of Chemistry, Berhampur university,3rd -5th March **2017**.
- Presented an Abstract entitled “ Understanding the impact of thermal stress and development of crosstolerance to toxins of *Bacillus thuringiensis* in immature stages of mosquito vectors” . Tapan K Barik, **TS Achari**, SS Padhy, B Sahu, UR Acharya in UGC sponsored national seminar on pollution: its effects and mitigation (APEC-2017) at Dept of Chemistry, O.P.S. Mohavidyalaya, Dhenkanal.7th -8th January **2017**.
- Presented an Abstract entitled ‘ Studies on the Impact of Thermal Stress on Cross Tolerance Level to *Bacillus thuringiensis* toxins on field collected Aedes mosquitoes’ . **TS Achari**, TK Barik, UR Acharya in the Regional Science Congress on “ Innovations in Science and Technology for Inclusive Development” Organized by the Indian Science Congress Association, Bhubaneswar Chapter, at KIIT University Bhubaneswar from 27th -28th January **2014**.

- Participated the National seminar on “ Beach erosion and anthropogenic exploitation at coastal line of odisha and its effect on olive ridley sea turtle, Irrawaddy dolphin and fish population and measures for conservation” Organized by Aabahana and Sponsored by Ministry of earth sciences, Government of India, New Delhi at Dept. of zoology, Berhampur university, Bhanjabihar, March 29-30, **2018**.
- Participated the Workshop cum training programme on “ Recent development and future trends of bioinformatics in biological science” Organized by BIF Center and Sponsored by BTIS net-DBT at Dept. of zoology, Berhampur university, Bhanjabihar, December 26th -27th, December **2016**.
- Participated the National seminar on “ Adverse impact of global climate change and irregular monsoon on agriculture, aquaculture and capture fishery in costal india and its management” Organized by Aabahana and Sponsored by Ministry of earth sciences, Government of India, New Delhi at Dept. of zoology, Berhampur university, Bhanjabihar, March 26-27, **2015**.
- Participated the National Workshop on “ Recent Trends in Marine Biotechnology in Odisha” Organized by Ganapati Sabat Foundation and Sponsored by Department of Biotechnology, Government of India, New Delhi at Youth Hostel, Gopalpur-on-sea. October 20, **2015**.
- Participated the National Workshop on “ Biotechnology for Economic Enhancement of Rural Community in Southern Region of Odisha” organized by Post Graduate Department of Zoology, Berhampur University, Berhampur, Odisha Sponsored by DBT and in association with Socio Cultural Development Centre. September 11, **2015**.
- Participated the BTIS net-DBT Sponsored Workshop-cum-training Programme on “ Application of Bioinformatics Tools in Biological Science teaching and

Research” organized by BIF Centre, Post Graduate Department of Zoology, Berhampur University, Odisha, 22-24th March, **2013**.

- Attended and presented UGC sponsored National Seminar on Ecotoxicology and Human Health, P.G. Dept. of Zoology & Botany, Berhampur University, Odisha, India. Jan. 8 – 9, **2012**.