

CV

Dr. Zesmin khan

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OBJECTIVE

To enhance my Knowledge and capabilities by working in a dynamic organization that provides itself in giving substantial responsibility to new talent.

PERSONAL INFORMATION

- Huband,s Name :- Dr. Hussain Ali
- Father's Name :- Late AhammedAli khan
- Mother's Name :- Hamida begum
- Gender :- Female
- Cast :- Gen
- Community :- Assamese
- Religion :- Islam
- Nationality :- Indian

QUALIFICATION

- SLET (Qualified under Top 10), GATE XL qualified.
- Ph.D., Department of Botany, Cotton University, 2024
- M. Sc. in Botany (Major) from Gauhati University, 2015.
- B. Sc. in Botany (Major) from B.H. College, 2013.

OTHER QUALIFICATIONS

- * Post Graduate Diploma in computer Application.
- * Has working knowledge of MS-Office software package (Word, Excel, and Power-point).
- * Dynamic, competent and result oriented professional with experience in Teaching.

PAPER PUBLICATIONS:-

Sl. No.	Title of the article
01	Khan, Zesmin , Thorny Chanu Thounaojam, and Hrishikesh Upadhyaya (2022). "Arsenic stress in Rice (<i>Oryza sativa</i>) and its amelioration approaches." <i>Plant Stress</i> , 100076. Elsevier (Scopus & UGC Care) (IF-6.9)
02	Khan, Zesmin , Devasish Chowdhury, and Hrishikesh Upadhyaya (2025). Application of the composite nanoparticles of selenium and chitosan for ameliorating arsenic stress in rice seedlings. <i>Plant Physiology and Biochemistry</i> , 220, 109470. Springer (Scopus & UGC Care) (IF-5.7)
03	Khan, Zesmin , Devasish Chowdhury, and Hrishikesh Upadhyaya (2024) "Screening of Arsenic toxicity in <i>Oryza sativa</i> L.(rice) and assessment of variation in growth, ROS, and antioxidant responses in tolerant and sensitive rice cultivars." <i>New Zealand Journal of Crop and Horticultural Science</i> . 1-24. Taylor and Francis (Scopus & UGC Care) (IF-1.2)
04	Khan, Zesmin , Thorny Chanu Thounaojam, and Hrishikesh Upadhyaya (2022) The role of Selenium and nano selenium on physiological responses in plant: A Review. <i>Plant Growth Regulation</i> , 100(2), 409-433. Springer (Scopus & UGC Care) (IF-3.9)
05	Khan Zesmin , Thorny Chanu Thounaojam, Jinu Devi Rajkumari, Bitupan Kumar Deka, Runa Rahman, Hrishikesh Upadhyaya (2023) Arsenic induced chromosomal aberrations, biochemical and morphological changes in <i>Vigna radiata</i> L. (Mung bean) seedlings and its amelioration by Curcumin. <i>Vegetos</i> , https://doi.org/10.1007/s42535-023-00655-9 . Springer (Scopus & UGC Care)
06	Khan, Zesmin , et al. (2022)"Impact of arsenic on the seedlings of Ranjit and Aijung, two most edible rice cultivars of Assam, India." <i>Journal of Stress Physiology & Biochemistry</i> 18.1, 28-39. (UGC Care)
07	Thounaojam, Thorny Chanu, Zesmin Khan , Thounaojam Thomas Meetei, Sudhakar Srivastava, Sanjib Kumar Panda, and Hrishikesh Upadhyaya (2021). "Transporters: the molecular drivers of arsenic stress tolerance in plants." <i>Journal of Plant Biochemistry and Biotechnology</i> , 1-14. Springer (Scopus & UGC Care)(IF-1.5)
08	Thounaojam, Thorny Chanu, Zesmin Khan , Thounaojam Thomas Meetei, and Hrishikesh Upadhyaya (2022). "Nanoparticles mitigate arsenic stress in plants by modulating defence mechanisms". <i>Current science</i> , 642-649 (Scopus & UGC Care)(IF-1.1)

BOOK CHAPTER PUBLICATION

Sl. No.	Title of the Chapter	Authors	Name of the Book
01.	Impact of nanoparticles on abiotic stress responses in plant (2019).	Zesmin Khan and Hrishikesh Upadhyaya	<i>In Nanomaterials in Plants, Algae and Micro-organism: Concepts and Controversies</i> "VOL-2 (Eds- D K Tripathi, P Ahmad, D K Chauhan , and N K Dubey), Elsevier
02	Molecular Physiology of Arsenic Uptake, Transport, and Metabolism in Rice (2020)	Thounaojam, Thorny Chanu, Zesmin Khan , Hrishikesh Upadhyaya	Arsenic in Drinking Water and Food (Ed-Sudhakar Srivastava), Springer, Singapore.

03	Bioactives and Therapeutic potential of Tomato (<i>Lycopersicon esculentum</i>. Mill). A review (2022).	Zesmin Khan and Hrishikesh Upadhyaya	Bioactives and pharmacology of medicinal plants. VOL- 2(Ed- T. Pullaiah) CRC Press, Taylor & Francis.
04	Phytoremediation of Heavy metals. A review (2024)	Zesmin Khan , Deka BK, Chanu TT, Chakraborty MB, Upadhyaya H.	Phytoremediation Potential of Medicinal and Aromatic Plants. 1-3. Taylor and Francis
05	Plant Nanonutrients for Sustainable Agriculture (2023)	Rahman, Runa, Zesmin Khan , and Hrishikesh Upadhyaya.	<i>Nanofertilizers for Sustainable Agroecosystems: Recent Advances and Future Trends</i> , pp. 151-179. Cham: Springer Nature Switzerland,

ORAL/POSTER PUBLISHED

Sl. No.	Title of National Seminar	Title of poster	Organized by	Year
01	International conference on challenges and prospects of bioresource conservation in eastern himalaya- with special reference to un-sustainable development goals	Role of selenium nanoparticle (SeNP) in mitigation of arsenic stress in rice seedlings (BEST ORAL PRESENTATION)	Department of Zoology, Gauhati University, Guwahati, assam- 781014.	May 3-4, 2023
02	67 th annual technical session of assam science society, 2023 cum national seminar on current developments in science and technology	Selenium nanoparticle and its role in mitigation of arsenic stress in rice	Bhattadev University, Bajali, Barpeta, Assam-781325.	April 6, 2023
03.	International conference on plant science (2019)	Impact of curcumin on moong seed germination during arsenic stress	Department of Botany, Gauhati University, Guwahati- 781014, Assam, India	February 4-6, 2019
04	National conference on Green, sustainable and evolving sciences (GSES- 2019)	Amelioration of the effect of arsenic on moong seed germination by the application of curcumin	Cotton university- 781001, Assam, India.	June 28-29, 2019

WORKSHOP ATTENDED

SI. NO	NAME OF THE TRAINING PROGRAMME	NAME OF THE INSTITUTE	DURATION
1	Therapeutic materials Techniques and applications	IIT GUWAHATI	19 -21 January, 2019
2	Introduction to nanotechnology	ASSAM DON BOSCO UNIVERSITY	25th February 2019 - 2nd March 2019.
3	Advance techniques in plant stress biology	GAUHATI UNIVERSITY	7-13 November, 2022

LANGUAGES

• Assamese • Hindi • English

Declaration: -I hereby declare that all the information provided above is true to the best of my knowledge.

Place: Guwahati

Zesmin khan
Guwahati , Assam