

## Dr. Viveeyan Saikia

Email Id: [viveeyan@dibrucollege.edu.in](mailto:viveeyan@dibrucollege.edu.in)

Mobile: 9401377960, 7576808967

### Educational Qualifications:

Qualification	Institution	Board/University	Year of Passing
Ph.D (Molecular Biology & Biotechnology)	Tezpur University, Tezpur, Assam	Tezpur University	2016
GATE (Life Sciences)	-	MHRD	2010
M.Sc. (Life Sciences)	Dibrugarh University, Dibrugarh, Assam	Dibrugarh University	2008
B.Sc. (Botany )	Dibru College, Dibrugarh, Assam	Dibrugarh University	2006

### Title of the Ph.D thesis:

*“Biochemical Characterization and Mechanistic study of heavy metal detoxification in the metal resistant bacteria.*

## Areas of Interest:

- Environmental pollution and bioremediation
- Microbiology
- Botany

## Research Experience:

- Expertise in routine microbiology work
- Performed biochemical characterization of microbial isolates and physiological tests for various parameters- pH, temperature, metal resistance, antibiotic sensitivity tests etc.
- Assessed and interpreted the data of metal-microbe interaction using biophysical tools such as SEM, TEM, EDXA, FTIR Spectroscopy etc.
- Conducted proteomic studies using 2-D gel electrophoresis to identify differentially expressed proteins in metal resistant microbes.
- Investigated the molecular mechanism involved in metal detoxification.

## Past Employment Details:

Organization Name - **Apex Professional University, Pasighat, Arunachal Pradesh**

Position Held - Assistant Professor, Department of Botany

Dated from 18.08.2016 to 20.06.2017

Length of service - 10 months

Organization Name – **Dibru College**

**Position Held** – Assistant Professor, Department of Botany

Dated from 13.12.2017 to present

## Publications:

1. Saikia V. (2017) An Overview on Potential use of Microorganisms for Bioremediation of Heavy Metals. *Journal of Emerging Technologies and Innovative Research*, 4(8), 76-79.
2. Deka A. and Saikia V. (2017) Triclosan-Elucidating its Pharmacological Properties and Impact of Long Term Exposure on Environment. *International Journal of Innovative Research and Advanced Studies*, 4(6), 382-386.
3. Hussain A., Saikia V. and Ramteke A (2012) Nitric Oxide and Modulatory Effects of the Root extract of *Phlogacanthus tubiflorus* against Oxidative Stress induced by Hydrogen Peroxide. *Free Radical and Antioxidant*, 2(1), 8-11.
4. Kalita D. and Saikia V. (2018) Ethnomedicobotanical Observation on the *Kalanchoe pinnata* (Lam.) Pers. From Upper Brahmaputra Valley. *Chirantan Chintan* Vol. VII. ISSN 2278 – 4756, Page: 135-141
5. Danngen O., Mello J., Ering K., Husaain A and Saikia V. (2018) Ethnomedicinal Plant Knowledge among the Adi Tribe of Yingkiong and Mariyang Valley, Upper Siang District, Arunachal Pradesh. *International Journal of Pure and Applied Bioscience*, 6(1), 1494-1503.

6. Saikia V. and Deka A. (2021) Exploring Potential Intervention of Convalescent Plasma-Derived Hyper-immunized Antibodies to Combat COVID-19: A Mini Review. *International Journal of Medical Research & Health Science*, 10(5), 114 – 120.
7. Saikia V. and Deka A. (2023) Prediction of ACE-inhibitory and antioxidant peptides from storage proteins of edible seeds and nuts using in silico approaches. *Sustainable Food Proteins*, 1, 84-98.

### **Book Chapter:**

1. Saikia V., Hussain A. & Ramteke A. (2015) Screening, biochemical characterization and identification of metal resistant bacterial strains isolated from adjoining areas of mining sites, *Molecular Biology and Biotechnology Research in NE India (MBBRNEI)*. ISBN: 978-81-931525-0-8.
2. Kalita D. and Saikia V. (2022) Ethno-medicobotanical observation from Sonowal Kachari Tribe of Dibrugarh District, *Biodiversity and Climate Change*, Mahaveer publications.
3. Deka A., Mandal M. and Saikia V. (2023) Insights into the challenges faced by Women Researchers in STEM workforce: A Case Study, *Women's Well-being*, Gargaon College

### **Positions held in the College**

1. IQAC Coordinator
2. Institute Nodal Officer (Scholarship)
3. Eco Club Convener
4. NCC CTO (2020-2022)
5. Teachers' Unit Secretary (2022-2023)