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| CURRICULUM VITAE | |
| DR. PRANITA BORA  Correspondence Address:-  Department of Chemistry, Nalbari College, Nalbari-781335, Assam  Email: [pranitabora05@gmail.com](mailto:pranitabora05@gmail.com) | **Mobile no.-** 8638506854. |

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| Academic Qualification |

* Completed Ph.D. with thesis entitled “**Control Crystallization on Self-Assembled Organic Monolayer and Non-covalent Interactions Guided Multi-component Crystals**”under the supervision of Dr.BipulSarma,in the Department of Chemical Sciences, Tezpur University, 2019.
* Completed M. Sc. in Chemical Sciences from Tezpur University in 2013 with 1st Division & distinction.
* Completed B. Sc. with Chemistry Honours from Nowgong College, GauhatiUniversity in 2011 with 1st Division & distinction.
* Completed Higher Secondary with Science stream from Alfa Beta Science College,Nagaon, Assam Higher Secondary Education Council in 2008 with 1st Division.
* Completed HSLC from Kiran Bala Goswami Balika Bidyapith, Nagaon, Secondary Education Board of Assam in 2006 with 1st Division.

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| Awards & Fellowship |

* Availed DBT-RA fellowship, 2020.
* Qualified CSIR-SRF, 2018.
* Qualified CSIR-UGC NET (Lectureship), December 2014.
* Qualified SLET, Assam, November 2014.
* Qualified Graduate Aptitude Test for Engineering (GATE), January 2013.
* AnondoramBarooah Award, 2006.

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| Work experience |

* Working as an Assistant Professor, Department of Chemistry, Nalbari College from February 2021 to present
* Worked as a DBT-RA fellow in CSIR-NEIST, Jorhat from January 2020 to January 2021.
* Worked as a guest faculty in B.Voc. Chemistry classes, Tezpur University, Tezpur, Assam.
* Worked as a guest faculty in B.Tech. Organic classes, Tezpur University, Tezpur, Assam.
* Worked as a Junior Research Fellow in the project entitled “Application of smooth exterior scalling method’’ under the guidance of Dr. Ashish Kumar Gupta, Associate professor, Department of Chemistry, IIT Guwahati.
* 3 months teaching experience in M.Sc. Organic chemistry classes, Nowgong College, Nagaon, Assam.

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| Training/Workshop |

* Workshop on “**Nuclear Magnetic Resonance (NMR)**” organized by Jeol India Pvt. Ltd. In collaboration with Department of Chemical Sciences, Tezpur University, on 13th October 2017.
* Workshop and Training Course on “**Single Crystal X-ray Diffraction**” held at IACS Jadavpur, Kolkata, from 28th-30th August 2017.
* Hands on Training on “**MEMS Cantilever and Micro and Nano Characterization Techniques**” conducted at Centre for Nano Science and Engineering, IISc Bangalore, 10th-18th March 2016.
* “**2-Day Familiarization workshop on Nanofabrication Technologies**” jointly organized by Tezpur University and IIT Bombay, April 2015.
* Participated in the National Workshop on “**Crystallography Education**” organized by Gauhati University, 8thNovember 2014.
* Workshop on “**Spectroscopic Tools and Their Applications**” organized by Department of Chemical Sciences, Tezpur University, 6thApril 2013.

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| Hands on Skills |

* Hands on experience in operating sophisticated instruments (i) **Single crystal X-ray diffraction** (Bruker), (ii) **UV-Visible** (Agilent), (iii) **TGA** and **DSC**(Mettler Toledo) (iv) **Karl Fisher instrument** (v) **Polarising Mcroscope**(Olympus) (vi) **FT-IR** (Perkin Elmer) (vii) **Fluorescence** (Perkin Elmer).
* Knowledge on exploring scientific databases and software Chem Draw, Chem sketch, Origin, CSD, SciFinder, Chemspider, Shelx, Wingx, Nanoscope and Multipak.

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| Projects |

* Project accomplished as DBT-RA entitled “Development of Nano Cocrystals of Potent Phytomolecules with Improved Pharmacokinetic Properties and Anticancer Activity” under Dr. Rinku Baishya, CSTD, CSIR-NEIST Jorhat.
* Project accomplished as CSIR Senior Research Fellow entitled “Control Polymorph Nucleation on Functionalized Surfaces”, under Dr. Bipul Sarma, Department of Chemical Sciences, Tezpur University.
* M.Sc. 4th semester (2013) Dissertation Title: “A Benign Approach For The Synthesis OfWater Soluble Fluorescent C-Dots And Its Application For The Production Of Biodiesel” under the guidance of Dr. Ashim Jyoti Thakur, Department of Chemical Sciences, Tezpur University.

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| Research Publications |

1. Saikia, B., **Bora, P.,** Khatioda, R. and Sarma, B. Hydrogen Bond Synthons in the Interplay of Solubility and Membrane Permeability/Diffusion in Variable Stoichiometry Drug Cocrystals. *Crystal Growth & Design*, 15(11):5593–5603, 2015.
2. Saikia, B., Khatioda, R., **Bora, P.** and Sarma, B. Pyridine N-Oxides as Coformer in the Development of Drug Cocrystals. *CrystEngComm*, 43:8454–8464, 2018.
3. **Bora, P.**, Saikia, B., and Sarma, B. Regulation of π···π Stacking Interactions in Small Molecule Cocrystals and/or Salts for Physiochemical Property Modulation. *Crystal Growth & Design*, 18(3):1448–1458, 2018.
4. Khatioda, R., **Bora, P.**, and Sarma, B. Trimorphic Ethenzamide Cocrystal: In Vitro Solubility and Membrane Efflux Studies. *Crystal Growth & Design*, 18(8):4637–4645, 2018.
5. **Bora, P.**, Saikia, B., and Sarma, B. Oriented Crystallization on Organic Monolayers to Control Concomitant Polymorphism. *Chem.: Eur. J.*, 26(3):699–710, 2020.
6. **Bora, P.**, Pathak, D., Kalita, B. and Sarma, B. Deciphering the role of environmental variables in the nucleation of stoichiometric cocrystals. *Crystal Growth & Design,* January 2023.

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| Book Chapters |

1. Sultana, N., **Bora, P.** and Sarma, B. Smart Nanocontainers: Fundamentals and Emerging Applications. Elsevier, ISBN: 978-0-12-816770-0.

2. **Bora, P.**,Ahmed, K. and Sarma, B. Fluorosis, its Prevalence, Fate & Consequences: Through the Lenses of A Chemist.Nowgong College, ISBN: 978-81-924066-7

3. **Bora, P.**, Pathak, D. and Sarma, B. Polymer Therapeutics in Drug Delivery System: Advances & Challenges, ISBN: 978-81-92954-91-2.

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| Seminars/Conferences Attended |

1. **Poster presented** entitled “Convenient Synthesis of Pyridine N-Oxides: A Coformer Selection in Cocrystal Development*”*, B.Saikia, R. Khatioda, **P. Bora,**B.Sarma; in the National Conference on Contemporary Developments in chemical Sciences, Tezpur University, Tezpur, Assam, 23‒24thNov, 2015.
2. **Poster presented** entitled “The Role of π-stacking in Governing the Pharmacokinetic Behavior of Cocrystals*”*, **P. Bora** and B.Sarma; in the National Conference on Emerging Trends in Chemistry, NEHU, Shillong, Meghalaya, 28‒29thMay, 2016.
3. **Oral presentation** entitled “Control Sulfathiazole Polymorph Nucleation on Functionalized Surfaces*”*, **P. Bora** and B.Sarma; in the International Conference on Emerging Trends in Nanomaterials Science and Technology,National Institute of Technology Nagaland(NIT), Nagaland, 4‒6thJanuary, 2017.
4. **Poster presented** entitled “Self Assembled Monolayer Preparation to Control Nucleation: Characterization Utilizing Different Analytical Techniques*”*, **P. Bora** and B.Sarma; in the International Conference on “Sophisticated Instruments in Modern Research”, Central Instrumentation Facility, IITGuwahati,31st June & 1st July, 2017.
5. **Oral presentation** entitled “Fluorosis, its Prevalence, Fate & Consequences: Through the Lenses of A Chemist*”*, **P. Bora**, K. Ahmed and B.Sarma; in the National Seminar on Coproduction of Science and Social order: A Social Science perspective on gifts of Science to Society for Overall Development, Nowgong College, Nagaon, 17th-18th August, 2018.
6. **Oral presentation** entitled “2D Functionalized Organic Monolayer Surfaces to Control Polymorph Nucleation*”*, **P. Bora** and B.Sarma; in “Organix-2018: An International Conference in Chemistry”, Department of Chemical Sciences, Tezpur University, Sonitpur, Assam,20th‒21st December, 2018.

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| Personal Profile |

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| Father’s name | : **PREMANANDA BORA** |
| Mother’s name | : **MAKAN BORA** |
| Date of birth | : **02-06-1990** |
| Gender | : **Female** |
| Marital status | : **married** |
| Nationality | : **Indian** |
| Linguistic abilities | : **English, Hindi, Assamese** |
| Hobbies | : **Art and craft, singing, cooking** |
| Corresponding Address | : **Department of Chemistry, Nalbari College, Nalbari-781335, Assam** |
| Permanent Address | : **Vill:TeliagaonChariali, P.O: Itachali,**  **Dist: Nagaon, Assam**  **Pin- 782003** |

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| Declaration |

I hereby declare that all the statements made above are true to the best of my knowledge.

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(PRANITA BORA)