

BIODATA

Introduction

I am a sincere hard working women . After Msc I completed BEd and I have a couple of years of experience as a teacher. In 2017 , I have been selected for Women Scientist fellowship by DST, Govt of India.

Currently working as Assistant Professor in the Department of Zoology, The Assam Royal Global University since 6th of February 2024.



Personal Information

Name : Dr. TRISHA RAJGURU
Date of Birth: 8th July 1985
Gender: Female
Nationality: Indian
Address: W/O Dr. Gouri Goutam Borthakur, Rajotia Gaon Malowali, Jorhat-10
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Academic Information

- HSLC in 2002 with 74% marks From Salt Brook Academy, Dibrugarh, under SEBA
- HS(Sc-PCMB Combination)in 2004 with 58.2% marks from Salt Brook Academy, Dibrugarh, under AHSEC
- BSc(Zoology) First Class with Distinction in 2007 with 62.5% marks from DHSK College, under Dibrugarh University in (1+1+1) system
- MSc(Life Sciences)(Specialisation Biochemistry)in 2009 with 71.88% marks from Department of Life Sciences, Dibrugarh University
- PhD(Life Sciences) in 2023 from Department of Life Sciences, Dibrugarh University
- MA in Education persuing from IGNOU

PhD

PhD topic: Malaria control by inhibition of Cysteine Protease of *P. falciparum* in human host :

An *in silico* and *in vitro* study

Title of the Thesis: A study on Antiplasmodial Activity of Non-peptidic Carbaldehydes on Falcipains

Status : *Awarded* (Notification: DU/RG/PhD/11/2023/5661 Dated 1/2/23)

Professional Training

- **B Ed** with 60% marks in 2010 from Department of Education Dibrugarh University
- **Six months Training** on Molecular Modelling, Simulation and Docking in Distributed Information Center in Department of Agricultural Biotechnology at Assam Agricultural University.

Projects

Title : *In silico* Screening of Aldehyde based novel inhibitor for Plasmodium heamoglobinase

Funding Agency : DST (Kiran WOS-A)

Principal Investigator : Mrs Trisha Rajguru

Project tenure : 2017-2021

Publications

Paper published

1. Paper published : Rajguru T., Bora.D.S., Modi. M.K., “Molecular Dynamics Simulation of P. falciparum Haemoglobinase falcipain 2 in its apo and holo state.” Journal of Current Trends in Pharmaceutical Research 2018, 5(1):24-33 *ISSN 2310-4820*
2. Paper published: Rajguru T., Bora. D.S., Modi. M.K., “Combined CADD and Virtual Screening to Identify Novel Non-peptidic Falcipain-2 Inhibitors.” Journal of Current Computer Aided Drug Design (2021) 16:1-10 DOI: 10.2174/1573409916666200701213526 *ISSN1875-6697*
3. Paper published: Rajguru T., Bora.D.S., Modi. M.K., “Identification of promising inhibitors for Plasmodium haemoglobinase Falcipain-2, using virtual screening, molecular docking, and MD Simulation ” Journal of Molecular Structure (2022)1248 131427. <https://doi.org/10.1016/j.molstruc.2021.131427> *ISSN 0022-2836*

Book chapter Published

1. Book chapter Published: Rajguru T., Borthakur G.G., Baruah A., Kalita R., Saikia M., “Modeling and Simulation of nerve cells” Interdisciplinary Approach to Biological Science Research and Sustainable Development, Maharathi Prakashan, P284-298,2013 ,ISBN-9789383230037
2. Book chapter Published:Rajguru T., Bora.D.S., Modi. M.K., “Role of CADD in antimalarial Drug Discovery: A Review” Glimpses of Biological Research in Upper Bhramaputra Basin, EBH Publishers, P313-326,2021 ,ISBN-9788194692201
3. Book chapter Published: Rajguru T.,Borthakur G.G“Unwanted Noise and its Adverse Effects on Human Health” Emerging Trends in Research in Science.,Purbanchal Prakashan, P193-204,2023ISBN-9789391878962
4. Book chapter Published: Rajguru T.,“Bioinformatics and systems biology is pioneering New Frontiers in Biological Research: A Review” Emerging frontiers in Multidisciplinary Approach to Biological Research., Lotus publications, P89-106 ,2023ISBN-9788196289621
5. Book chapter Published: Rajguru T.,“A brief review on Malaria as Vector Borne Disease ” Recent trends in Life Sciences, Kuhu Pat Publishers, P124-139,ISBN-9789395794046 .

Book Published as Author

1. Title of the book: The Inhibitor Effects of Nonpeptidic Cardaldehydes on Falcipain 2
Author: Dr. Trisha Rajguru
ISBN- 9786201660083
Year of Publication: 2023
Publisher: LAP Publisher
2. Title of the book: New Horizons in Antimalarial Drug Discovery.
Author: Dr. Trisha Rajguru
ISBN- 9786206161028
Year of Publication: 2023
Publisher: LAP Publisher
3. Title of the book: Environment and Public Health.
Author: Dr. Trisha Rajguru
ISBN- 9788196289638
Year of Publication: 2023
Publisher: Lotus publications

4. Title of the book: Vector Borne Diseases
Author: Dr. Trisha Rajguru
ISBN- 9788196289607
Year of Publication: 2023
Publisher: LP Publisher, India

5. Title of the book: Parasitology
Author: Dr. Trisha Rajguru
ISBN- 9788196289614
Year of Publication: 2023
Publisher: Lotus publications

Book Published as Editor

6. Title of the book: Emerging frontiers in Multidisciplinary Approach to Biological Research.
Editor: Dr. Trisha Rajguru
ISBN-9788196289621
Year of Publication: 2023
Publisher: Lotus publications

7. Title of the book: Environment and Public Health.
Author: Dr. Trisha Rajguru
ISBN- 9788196289638
Year of Publication: 2023
Publisher: Lotus publications

Language Skills

English, Hindi and Assamese(Read, Write and Speak)

Computer Skills

- Experienced in ICT classes
- Delivering interactive content over smart class platforms such as Edurite (During 2011-2012 in VKV NEEPCO)

Computer Education

- 6 Month diploma in computer application and maintenance from Epitome, Dibrugarh Centre
Proficient in :MS Word and PowerPoint

Hobbies :Drawing and Painting

Employment Exchange Registration Number : 8748230/06/2023

As Resource Person:

- Ø Participated as **Eminent speaker** in National level 1 week familiarization workshop on Remote access to Lab: Lab on screen from 27th July to 1st August **2021** organized by Jorhat Kendriya Mahavidyalaya in association with Jorhat Engineering College.
- Ø Participated as **Resource person** in Faculty Exchange Program on 23rd November and 26th November **2021** for 5th semester students organized by Department of Zoology, Bahona College, Jorhat .

Seminar as participants

1. Participated in National Seminar and Student Research Conclave on issues and challenges of Environment safety for sustainable development from 5th to 7th June **2022**, organized by IQAC, IIC-JKM, Community college and Science and Technology Forum, Jorhat Kendriya Mahavidyalaya in association with Chitkara University Punjab, Rainforest Institute Jorhat and CSIR North East Institute of Science and Technology, Jorhat (with a paper entitled “Physiological Effects of Light Pollutions on Human”).**(Oral presentation)**
2. Participated in National Seminar and workshop on Significance of soft skill and life skills and its pertinence in career development from 24th to 26th June **2021** organized by Jorhat Kendriya Mahavidyalaya Jorhat and SSP Mandal’s CT Bora college, Pune India
3. Participated in National Seminar 3rd National Conference on Recent Advances in Science and Technology from 17th -20th August **2020**, Organized by Assam Science and Technology University under TEQIP- III Project of world bank and MHRD, NewDelhi (with a paper entitled “Screening, Docking and Molecular Dynamics Simulations to identify Novel Nonpeptidic Inhibitors of FP2”).
4. Participated in 107th Indian national Science Congress held in the University of Agricultural Sciences Bangalore from 3rd to 7th January **2020** (with a paper entitled “ Computer Aided design of Nonpeptidic Falcipain 2 inhibitors: Virtual screening, Docking and MD simulations”).
5. In a National Seminar , from 5th and 6th February **2020** organized by Department of Life Sciences Dibrugarh University (with a paper entitled “ Ligand Based Virtual screening of novel Falcipain 2 inhibitor of *Plasmodium falciparum*”).**(Oral presentation)**
6. Participated in a National Seminar , from 24th to 25th February **2018** organized by Department of Pharmaceutical Sciences Dibrugarh University (with a paper entitled “ Molecular Dynamics Simulation of *P. falciparum* Haemoglobinase falcipain 2 in its apo and holo state”).**(Oral presentation)**
7. Participated in UGC Sponsored National seminar “Recent trends in Theoretical and Applied Statistics in Department of Statistics”, Dibrugarh University during 11-12 March, **2016** (with a paper entitled “Application of statistical Mechanics in studying equilibrium conformation of falcipain -2”).**(Oral presentation)**
8. Participated in UGC Sponsored National seminar on Research in Biological Sciences for sustainable development with application of Mathematics and allied branches, Bahona College, Jorhat, 10-11 May, **2013**(with a paper entitled “Modeling and Simulation of nerve cells”)
9. Participated in UGC Sponsored National seminar on Ornamental Fishes of NE India, DSK College, 29-30 Jan **2006**

Workshops as participant

1. Participated in Brain Storming Meeting series on Game Changing Technologies on 5th June **2023** organized by Advance Computation and Data Sciences Division, CSIR-North East Institute of Science and Technology, Jorhat.
2. Participated in workshop on Intellectual Property Rights(IPR) and IP management for startup on 31st May **2023** organized by Institution’s Innovation Council in collaboration with IQAC, Jorhat Kendriya Mahavidyalaya, Jorhat.
3. Participated in national seminar and workshop on Significance of soft skill and life skills and its pertinence in career development 24th to 26th June **2021** organized by Jorhat Kendriya Mahavidyalaya Jorhat and SSP Mandal’s CT Bora college, Pune India
4. Participated in Recent Advances in Bioinformatics, 23rd -26th May **2019** Organized by CSIR North East Institute of Science and Technology.
5. Participated in the **hands on training** on molecular modelling and molecular dynamics simulations on 25th – 27th February **2019**, organized by Distributed Information Center AAU,

- Jorhat.
6. Participated in **National Workshop** on Potential Biotechnology Programmes Using Bioresources of N.E.India,12th-14th September **2019** Organized by DBT-NECAB,AAU.
 7. Participated in the **hands on training** on molecular modelling and molecular dynamics simulations on 28th – 30th february **2017**,organized by Distributed Information Center AAU, Jorhat.
 8. **Workshop** on capacity building in grant writing skill and effective management of intellectual property rights in biotechnology by university and research institutions of N.E Regions, 16th -18th november **2016**, organized by Biotechnology Consortium India Limited, New Delhi.
 9. Participated in Two Days National **Workshop** on Research Paper and Project Proposal Writing 24 th and 25 th October, **2016** Organized by Dibrugarh University Research Scholars' Association (DURSA).
 10. Participated in DBT Sponsored week long **workshop** on Biochemical and Molecular techniques in Biology teaching and Research, organized by Centre for studies in Biotechnology, Dibrugarh University, 23-28 February, **2015**
 11. Participated in DBT Sponsored 3 day workshop on Chemoinformatics and Rational Drug Designing, Organized by Bioinformatics Infrastructure Facility, Centre for studies in Biotechnology, Dibrugarh University, 22-24 sept, **2014**

Webinar as participant

1. Participated in National Webinar on Indigenous Resources of North East India for entrepreneurship development, Organized by CSIR-NEIST, s a part of road show of global Bio India on 17th November **2023**
2. Participated in National Webinar on intellectual property rights in agricultural sectors under the aeigs of World bank -ICARfunded national higher Education Projects(NAHEP), Organized by Swami keshwanand rajasthan agricultural university, Bikaner, on july17, **2020**
3. Participated in 2 day National Webinar on Pease, security and social justice: impact of covid 19 on women, Organized by women cell bahona college in association with IQAC Bahona college Jorhat, on july 20th-21th , **2020**
4. Participated in **International Webinar** on Food Safety Policies and Regulation, Organized by department food science and nutrition, college of community science in collaboration with National Higher Education Project(NAHEP) , on july 27th -28th , **2020**
5. Participated in national Webinar on how to read scientific literature, organized by MANAV in collaboration with national center for cell science , on august 10th , **2020**

Awards

- Awarded with the Fellowship of Women Scientist -A under the scheme of KIRAN DST(2017).
- BSc(Zoology) First Class with Distinction (2007)

Life Member

- Life Member of Indian Science Congress Association (Membership number L38273 of 2019)

Design of New curricula and courses

- Design of New curricula and courses Vermicomposting Technology as Addon in Under Graduate level in Jorhat Kendriya Mahavidyalaya, Jorhat, Assam

Development of complete MOOC

- A four credit four quadrant mooc on Dibrugarh university fifth semester course on endocrinology has been developed and submitted to mooc platform udemy.com . The course has been approved and is live in the said MOOC platform

E content

- Development of ebook
Book Name: Parasitology
Author: Dr. Trisha Rajguru
ISBN: 9788196289614
- Editor of ebook for complete course
Book Name: Environment and Public health
Editor: Dr. Trisha Rajguru
ISBN:9788196289638
- Contribution to development of e content module in a ebook
Module 1: Introduction (Unit1)
in an e book entitled “Environment and Public health”
ISBN: 9788196289638

Declaration

All the information given above are true to the best of my knowledge and belief.

Trisha Rajguru