

Dr. Ashis Kumar Goswami

Assistant Professor (Contractual) of Pharmacognosy
Dept. of Pharmaceutical Sciences, Dibrugarh University
Assam.

Date of Joining 01.03.2024.

Permanent Address

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Dibrugarh- 786001, Assam
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Date of Birth: 15/09/1987

Skills

Research

- Standardization of traditional health practices of communities residing in north-east India.
- Drug discovery from natural sources.
- Phytochemistry.
- *In silico* drug discovery.

Academic

- Teaching students in under-graduation (B.Pharm) post-graduation (M.Pharm).
- Implementation of academic guidelines of Pharmacy Council of India.

Education

2016-2022 Dibrugarh University, Assam, Ph.D. in Pharmaceutical Science

Dept. of Pharmaceutical Sciences

Thesis title: Evaluation for potential biological activity with special emphasis on the anti-amoebic activity of *Homalomena aromatica* Schott. and *Rubus moluccanus* L.

Supervisor: Dr. Hemanta Kumar Sharma

2012-2014 Dibrugarh University, Assam, M. Pharm in Pharmacognosy

Dept. of Pharmaceutical Sciences

Thesis title: Investigation of pharmacognostic parameters and screening of analgesic and anti-inflammatory activity of *Coptis teeta* Wall. on rodents

Supervisor: Dr. Anshul Shakya

2007-2011 Dibrugarh University, Assam, B.Pharm

Dept. of Pharmaceutical Sciences

Professional Experience

18.04.2022- 28.02.2024 Asst. Professor of Pharmacognosy

Girijananda Chowdhury Institute of Pharmaceutical Science, Guwahati

05.10.2020-13.04.2022 Asst. Professor of Pharmacognosy

Regional College of Pharmaceutical Sciences, Guwahati

01.02.2019-30.11.2019 Teaching Assistant

Dept. of Pharmaceutical Sciences, Dibrugarh University

01.08.2017-30.09.2020 Young Scientist Fellow

Dept. of Health Research, Govt. of India

27.08.2014-31.01.2015 Asst. Professor of Pharmacognosy

Jayoti Vidyapeeth Women's University, Jaipur

Award**1. Dr. P.D. Sethi National Awards, 2022****2nd Prize, Research Publication**

For the paper titled “Validated High-Performance Thin-layer Chromatography-Mass spectrometry method and stability study of linalool in the volatile oil of the rhizomes of *Homalomena aromatica* Schott.”

Grants**1. Scheme: International Travel Scheme for Young Scientist (Grant ID: ITS/2022/000816)**

Agency: Science and Engineering Research Board, Dept. of Science & Technology, Govt. of India

Grant Amount (in INR): Rs 1,54,416/- (Rs. One lakh fifty-four thousand four hundred and sixteen only)

Amount Sanctioned to attend the 25th International Symposium for High-Performance Thin Layer Chromatography, Slovenia

2. Scheme: Human Resource Development Scheme of Dept. of Health Research for Young Scientist (Grant ID: R. 12014/02/2017-HR)

Agency: Dept. of Health Research (DHR), Ministry of Health and Family Welfare, Govt. of India.

Grant Amount (in INR): Rs. 28,87,992/- (Rupees twenty-eight lakh eighty-seven thousand nine hundred ninety-two only).

Amount sanctioned for the project, “Evaluation for antiamebic activity of the secondary metabolites of *Homalomena aromatica* Schott. and high-throughput screening of the derivatives of isolated compound(s) targeting thioredoxin reductase of *Entamoeba histolytica*.”

3. Scheme: Biotechnology Industry Research Assistance Council and Society for Research and Initiatives for Sustainable Technologies and Institutions (BIRAC-SRISTI) Appreciation Award. (BIRAC SRISTI PMU-2016/0011)

Agency: Society for Research and Initiatives for Sustainable Technologies and Institutions.

Grant Amount (in INR): Rs. 1,00,000/- (Rupees One lakh only).

Amount sanctioned for the project, “Practice of dysentery from Shodh Yatra 33rd Haryana by Santosh-Evaluation of anti-dysenteric activity of plant extracts based on ethnomedicinal practices.”

Other achievements:

1. Qualified All India Council for Technical Education (AICTE) Graduate Pharmacy Aptitude Test (GPAT) 2013 with All India Rank of 873.
2. Dibrugarh University Research Fellowship (DURF) for the session 2016-2017.

Publications:

1. Gogoi, Neelutpal, **Ashis Kumar Goswami** and Dipak Chetia. “Quantitative assessment of an antimalarial flavonoid in the *Citrus maxima* (Burm.) Merr. hydroalcoholic root extract using HPTLC densitometric analysis.” *Chemistry Africa* 6 (2023), 2871–2878.
2. **Goswami, Ashis Kumar**, Neelutpal Gogoi and Hemanta Kumar Sharma. “Validated High-Performance Thin-layer Chromatography-Mass spectrometry method and stability study of linalool in the volatile oil of the rhizomes of *Homalomena aromatica* Schott.” *Journal of Chromatographic Science* 61.3(2023), 269-278.
3. Gogoi, Neelutpal, Purvita Chowdhury, **Ashis Kumar Goswami**, Aparoop Das, Dipak Chetia and Bhaskarjyoti Gogoi. “Integrated computational approach towards repurposing of antimalarial drug against SARS-CoV-2 main protease.” *Structural Chemistry* 33.5 (2022), 1409-1422.
4. Das, Sagarika, Suman Hazarika, Himangshu Sarma, **Ashis Kumar Goswami**, Hemant Kumar Sharma. “Green extraction and *in vitro* anti-mycobacterial activity of *Hydrocotyle sibthorpioides* Lam. and *Carica papaya* L. leaves collected from Assam, India. *Indian Journal of Natural Products and Resources*. 13.1 (2022), 60-66.

5. Gogoi, Neelutpal, Purvita Chowdhury, **Ashis Kumar Goswami**, Aparoop Das, Dipak Chetia and Bhaskarjyoti Gogoi. "Computational guided identification of a citrus flavonoid as potential inhibitor of SARS-CoV-2 main protease." *Molecular Diversity* 25.3 (2021), 1745-1759.
6. **Goswami, Ashis Kumar**, Hemanta Kumar Sharma, Neelutpal Gogoi, Ankita Kashyap, Bhaskar Jyoti Gogoi. "In vitro evaluation and molecular dynamics, DFT guided investigation of antimalarial activity of ethnomedicinally used *Coptis teeta* Wall." *Combinatorial Chemistry & High Throughput Screening* 25.2 (2022), 292-306.
7. **Goswami, Ashis Kumar**, Neelutpal Gogoi, Bhaskar Jyoti Gogoi and Hemanta Kumar Sharma. "Network-pharmacology and DFT based approach towards identification of leads from *Homalomena aromatica* for multi-target in-silico screening on *Entamoeba histolytica* proteins". *Current Drug Therapy* 15.3 (2020), 226-237.
8. **Goswami, Ashis Kumar**, Neelutpal Gogoi, Anshul Shakya, and Hemanta Kumar Sharma. "Development and validation of High-Performance Thin-layer Chromatographic method for quantification of berberine in rhizomes of *Coptis teeta* Wall, an endangered species collected from Arunachal Pradesh, India". *Journal of Chromatographic Science* 57.5 (2019), 411-417.
9. Laldinsanga, Himangshu Sarma, Taslima Jahan, **Ashis Kumar Goswami**, Hemanta Kumar Sharma. "Traditional anti-malarial drugs from Serchhip and Lunglei districts of Mizoram". *Current Trends in Pharmaceutical Research* 6.1 (2019): ISSN: 2319-4820. 76-104.
10. **Goswami, Ashis Kumar**, Hemanta Kumar Sharma, Anshul Shakya. "Evaluation of analgesic and anti-inflammatory activity of standardized methanolic extract of *Coptis teeta* Wall. rhizomes." *Current Trends in Pharmaceutical Research* 4.1 (2017):1-15.
11. **Goswami, Ashis Kumar**, Zartaj Wasmin Banu, Hemanta Kumar Sharma. "CNS effects of *Homalomena aromatica* based on linalool content: A review." *Current Trends in Pharmaceutical Research* 3.2 (2016): ISSN: 2319-4820. 20-38.
12. Baruah, Geetanjali, Dev Jyoti Kalita, **Ashis Kumar Goswami**, Dibya Jyoti Baishya, and Nabajit Deka. "Free radical scavenging potential and antibacterial activity of leaves of *Aphanamixis polystachya* (Wall.) R.N. Parker". *European journal of biomedical and pharmaceutical sciences* 3.8 (2016):309-313.ISSN : 2349-8870.
13. Saikia, Rahul, **Ashis Kumar Goswami**, and Hemanta Kumar Sharma. "Drug delivery to brain and bone marrow: a review". *European journal of Biomedical and pharmaceutical sciences* 3.4 (2016): 604-616. ISSN: 2349-8870.
14. Bora, Nilutpal Sharma, Bibhuti Bhusan Kakoti, Barnali Gogoi, and **Ashis Kumar Goswami**. "Ethno-medicinal claims, phytochemistry and pharmacology of *Spondias pinnata*: a review". *International Journal of Pharmaceutical sciences and Research* 5.4 (2014): ISSN (Online): 0975-8232, ISSN (Print): 2320-5148. 1138-1145.
15. Gogoi, Barnali, Bibhuti Bhusan Kakoti, Nilutpal Sharma Bora, **Ashis Kumar Goswami**. "Phytochemistry and Pharmacology of *Phlogacanthus Thyrsiflorus* Nees: A Review". *International Journal of Pharmaceutical Sciences Review and Research* 23.2 (2013): ISSN: 0976-044X. 175-179.
16. Shakya, Anshul, Neha Sharma, Deepali Gupta, and **Ashis Kumar Goswami**. "Anti-depressant activity of *Ficus religiosa* L.". *Current Trends in Pharmaceutical Research* 2.1 (2013): ISSN: 2319-4820.32-44.

Book Chapters:

1. Das, Bhrigu Kumar, Anupam Sarma and **Ashis Kumar Goswami**. "Gut-health pharmacology: Integrating microbiota insights with natural product based therapies". *Biochemical and Molecular Pharmacology in*

Drug Discovery Drug Discovery Update. Mithun Rudrapal, Chukwuebuka Egbuna and William Chi Shing Cho. 1st ed. Elsevier, 2024. 377-399. ISBN: 9780443160134. eBook ISBN: 9780443160141.

2. Saikia, Ananta and **Ashis Kumar Goswami**. "A Review On The Genus *Zanthoxylum* With Special Reference To Its Phytochemistry And Traditional Uses". *The Marvel Plant Of Meghalaya: Zanthoxylum Acanthopodium DC*. Hemanta Kumar Sharma and Kamruz Zaman. 1st ed. Deutschland: Lap Lambert Academic Publishing, 2016. 1-17. ISBN: 978-3-659-88413-9. Print.
3. Sharma, Pallavi, **Ashis Kumar Goswami**, and Kamruz Zaman. "In-Vitro Antehelminthic And Cytotoxic Activity Of The Aqueous Extract Of *Zanthoxylum Acanthopodium*". *The Marvel Plant Of Meghalaya: Zanthoxylum Acanthopodium DC*. Hemanta Kumar Sharma and Kamruz Zaman. 1st ed. Deutschland: Lap Lambert Academic Publishing, 2016. 27-33. ISBN: 978-3-659-88413-9. Print.
4. Sonowal, Bhairabi, **Ashis Kumar Goswami**, and W Lyngdoh. "Phytochemical Screening And Evaluation For Antimicrobial Activity Of N-Hexane Extract Of The Fruits Of *Zanthoxylum Acanthopodium* Collected From Meghalaya, India.". *The Marvel Plant Of Meghalaya: Zanthoxylum Acanthopodium DC*. Hemanta Kumar Sharma and Kamruz Zaman. 1st ed. Deutschland: Lap Lambert Academic Publishing, 2016. 39-50. ISBN: 978-3-659-88413-9. Print.
5. **Goswami, Ashis Kumar**, Dolly Das, and Pallavi Sharma. "TLC, HPTLC And FTIR Analysis Of Various Extracts Of The Seeds Of *Zanthoxylum Acanthopodium* Of Meghalaya". *The Marvel Plant of Meghalaya: Zanthoxylum Acanthopodium DC*. Hemanta Kumar Sharma and Kamruz Zaman. 1st ed. Deutschland: Lap Lambert Academic Publishing, 2016. 71-83. ISBN: 978-3-659-88413-9. Print.

Patent Granted:

Title of Invention: A method for evaluating the antimalarial activity of the methanol extracts of *Coptis teeta*.

Patent Office: Pretoria, Republic of South Africa

Publish Date: 25.05.2022

Patent number: 2022/03092.

Workshops/Training

- Five days training on CAMAG HPTLC Systems at India Specific HPTLC Applications Research Laboratory in Mumbai, India, 2019.
- National Workshop on Research Paper and Project Proposal Writing at Dibrugarh University, Dibrugarh, 2016.
- Workshop on Application of NMR for Structural elucidation of Organic Compounds, at SAIF, North-Eastern Hill University, Shillong, 2016.
- Workshop on LaTeX, at Centre for Computer Studies, Dibrugarh University, Dibrugarh, 2016.
- One-day Workshop on Patent Search, at Intellectual Property Right Cell, Dibrugarh University, Dibrugarh, 2015.

Conferences

- 25th International Symposium for High-Performance Thin Layer Chromatography, Slovenia
- National Conference on Current Research in Drug Discovery and Development, at Dibrugarh University, Dibrugarh, Assam, 2019.
- International Conference on Nutraceuticals and Chronic Diseases, at IIT Guwahati, Guwahati, Assam, 2019.
- National Seminar on Emerging Global Trends in Pharmaceutical Nanotechnology, at Dibrugarh University, Dibrugarh, Assam, 2018.
- National Conference on Ethno-medicine and Traditional Health Practices in North-east Region of India, at NIPER Guwahati, Guwahati, Assam, 2018.
- National Seminar on Natural Resources for Drug Discovery and Development, at Dibrugarh University, Dibrugarh, Assam, 2019.

- National Seminar on Recent Trends in Theoretical and Applied Statistics-II, at Dibrugarh University, Dibrugarh 2017.
 - International Conference on Harnessing the Sub-Himalayan Plant Diversity for Human Welfare, at Dibrugarh University, Dibrugarh 2015.
 - 4th Indian National Seminar of Asian Network of Research on Antidiabetic Plants- Plants in Diabetes: Prospects and Challenges, at Dibrugarh University, Dibrugarh 2015.
 - International Conference cum Exhibition on Drug Discovery and Development from Natural Resources, at RIPANS, Aizwal, Mizoram 2014.
 - National Conference on Indigenous Health Practices with Special Reference to the Tribes of North East India, at Dibrugarh University, Dibrugarh 2013.
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Declaration:

I hereby declare that all the information given above is true to the best of my knowledge.

Ashis K. Goswami

(Dr. Ashis Kumar Goswami)

Place: Dibrugarh

Date: 04.09.2024