

CONTACT ME



BRT profile

 chaure@ftz.czu.cz

 +420-770-699-695

 [Aishwarya Chaure](#)



HIGHLIGHTS

- Advanced skills and knowledge in content creation and science communication
- Advanced skills in writing and developing CDPs (communication and dissemination plans)
- Extensive experience (2018–2023) in education, scientific research, and capacity building through international projects at Awassa University, Ethiopia.
- Designed and implemented blended learning programs, integrating in vitro biotechnologies to enhance student comprehension and drive research activities.
- Successfully coordinated teams of technicians and supervised research topics, modernizing course content and introducing cutting-edge technologies.
- Improved curriculum development processes with agile methodologies, boosting student satisfaction, research quality, and productivity.

Aishwarya Chaure

Postdoctoral Researcher & Project Manager



WORK EXPERIENCE

Project Manager

BioResources & Technology Division (BRT) at FTZ/CZU

July. 2025 - Ongoing

- International Project Planning & Coordination
- Project Monitoring & Delivery
- Cross-Team Communication
- Stakeholder & Partner Engagement
- Research oriented responsibility -
- Writing scientific articles
- Reviewing articles for Scientia Agriculturae Bohemica Journal, CZU

Postdoctoral Researcher

Laboratory of Ethnobotany and Ethnopharmacology at FTZ/CZU

Jan. 2025 - Ongoing

- Development and testing of a patented microlid device for evaluating the biological activity of volatile compounds.
- Manage and supervise laboratory research focusing on testing plant-derived volatile compounds and essential oils against a variety of pathogens.

Researcher and Teaching Assistant

Laboratory of Ethnobotany and Ethnopharmacology at FTZ/CZU

Sept. 2019 – Sept. 2024

- Conducted ethnobotanical surveys and collected medicinal plants from India for research.
- Prepared and extracted plant materials using steam distillation, cold pressing, and solvent extraction.
- Performed chemical analysis of plant-based extracts and essential oils, using GC-MS and HPLC-MS.
- Headspace
- Developed methodologies for antimicrobial activity and cytotoxicity assessment.
- Maintained and calibrated GC systems (Agilent GC-7890B with autosampler 7693).
- Taught and supervised Master's students in practical sessions on ethnobotanical practices, phytochemical extraction, distillation, and antimicrobial testing.



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Junior Researcher

Pt. Ravishankar Shukla University – Raipur, India

2018 - 2023; yearly Projects in Ethiopia on education, scientific research and capacity building at Awassa University, Ethiopia

- Conducted epidemiological surveys on traditional medicinal plant used by the local tribal population.
- Study plant-derived bioactive molecules using AAS, PCR, HPTLC, HPLC, and FTIR.
- Investigated the potential of screened medicinal plants for pharmaceutical application in treating Autoimmune diseases.



LANGUAGE SKILLS

- **English** - native speaker
- **French** - A1



EDUCATION HISTORY

Ph.D. in Agricultural Specialization - Tropical Agrobiology and Bioresource Management.

Czech University of Life Sciences, Prague

Year of Graduation: 2024

- Prague, Czech Republic
- Degree in Ethnobotany and Ethnopharmacology
- Dissertation research on "*Antimicrobial activity and chemical composition of essential oils and extracts from Indian medicinal plants*"

Masters in Biotechnology

Pt. Ravishankar Shukla University

Year of Graduation: 2013

- Raipur, India
- Degree in Biotechnology
- Dissertation research on "*Assessment of the antimicrobial potential of Silver and Copper nanoparticles against diarrhea-causing pathogens*"

Bachelors in Biotechnology

Pt. Ravishankar Shukla University

Year of Graduation: 2011

- Raipur, India
- Degree in Biotechnology



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COMMUNICATION SKILLS

- Excellent written and verbal communication skills obtained throughout studies and work experience
- Excellent graphical communication skills
- Confident, articulate, and professional speaking abilities
- High and confident ability to speak in public, in groups, or via electronic media.
- Excellent presentation and negotiation skills
- Confident in presenting scientific work at international conferences/symposiums and all forms of media

OTHER SKILLS AND EXPERIENCES

- Experience in teaching MSc and BSc students, subjects -
- Taxonomical identification and authentication of plants
- Evaluation and processing of ethnobotanical data
- Methods of antimicrobial susceptibility testing of plant-derived volatile agents
- Laboratory processing of plant samples
- Experience in co-supervising diploma thesis and research work of MSc and BSc students
- Technical skills -
- Handling gas chromatography (Agilent GC-7890B system with autosampler Agilent 7693)
- Headspace extraction - HS-SPME (Supelco - DVB/CAR/PDMS)
- High Performance Liquid Chromatography (Shimadzu nexera XR quaternary system)
- Fourier transform infrared spectroscopy (Bruker ALPHA II)

LIST OF PROJECTS



- TAČR SIGMA 4: Commercialization of a patented sealing microlid for testing volatile agents in the vapor phase
- AROMAPSY: A clinical aromatherapy study, seeks to assess the impact of EO blends via braintargeted nasal delivery on the consumption of benzodiazepines prescribed upon request in outpatient psychiatry", Université Paris Cité.
- GAMA 2 TACR TP01010050: Development of sealing lid for microtiter plates for testing of volatile agents, Czech University of Life Sciences Prague
- IGA 20205001: Evaluation of biological effects and chemical analysis of compounds obtained from tropical plant species, Czech University of Life Sciences Prague
- IGA 20195003: Biological activity and chemical composition of compounds isolated from medicinal and edible tropical plants, Czech University of Life Sciences Prague



LIST OF SCIENTIFIC PUBLICATIONS



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ARTICLES

- **Chaure, A.;** Houdkova, M.; Antih, J.; Urbanova, K.; Duskocil, I.; Naik, M.L.; Patel, K.S.; Kokoska, L. Validation of Broth Macrodilution Volatilization Method for Testing of Essential Oils in Liquid and Vapor Phase: Chemical Composition, Cytotoxicity, and Antibacterial Effect of Indian Medicinal Plants against Pneumonia-Causing Pathogens. *Molecules* 2023, 28, 4625.
- Houdkova, M.; **Chaure, A.;** Duskocil, I.; Havlik, J.; Kokoska, L. New broth macrodilution volatilization method for antibacterial susceptibility testing of volatile agents and evaluation of their toxicity using modified MTT assay in vitro. *Molecules* 2021, 26, 4179.
- Houdkova, M.; Vistejnova, L.; Antih, J.; **Chaure, A.;** Paurova, I.; Naik, M. L.; Novy, P.; Klein, P.; Deb, M. K.; Kokoska, L. (2025). New microplate disc volatilization assay for in vitro evaluation of toxicity and antimicrobial activity of volatiles in vapour phase. *Food and Chemical Toxicology*, 206, 115744. <https://doi.org/10.1016/j.fct.2025.115744>