

Dr. AJITH S MSc, PhD.

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EDUCATION

Doctor of Philosophy in Biotechnology Research Guide: Dr. V Krishna	2018 – 2022
Thesis Title:	Micropropagation, Phytochemical Screening and Evaluation of Pharmacological properties of <i>Buchanania lanzan</i> Spreng.
Master of Science Biotechnology (MSc)	2013 – 2015
MSc final year project	Molecular Docking studies of Gyrase Inhibitor; Weighing Earlier Screening Bedrock
Bachelor of Science (Seed Technology, Botany, Chemistry) Sahyadri Science College Shivamogga.	2010 – 2013

RESEARCH EXPERIENCE

Junior Research Fellow	Dept. of Biotechnology, Kuvempu University, Shankaraghatta, Shivamogga Jan 2016 – Jan 2021
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- Conducted field Surveys, collected, and taxonomically identified plants. The herbarium of the collected medicinal plants was stored in Kuvempu University herbaria.
- Microbial interaction of collected plants with fungal pathogens was studied.
- As many as medicinal plants were subjected to plant tissue culture studies and Micropropagation of many medicinal plants were achieved in Plant tissue culture laboratory,
- Histological studies of plant sections and preparation of slides.
- Phytochemical screening of medicinal plants viz. extraction, preliminary phytochemical analysis, profiling of complex extract, isolation of phytocomponents, characterization, and structure elucidation.
- The pharmacological evaluation and preclinical studies of crude extracts of plants and isolated phytocomponents viz. antibacterial activity, antioxidant activity, hepatoprotective activity, antinociceptive activity, analgesic activity, anticancer activity, anti-diabetic activity, etc.

1. **Ajith.S**, Krishna, V., Shastri, S. L. Ravi, S., (2018). Dormancy breaking of stored seeds of *Buchanania lanzan* Spreng. - An endangered medicinal plant of the Western Ghats, *JETIR*, 5, 237–243.
2. **Ajith. S**, Krishna V., Ravikumar S., Vinay N M., (2020). Chemical profiling of *Buchanania lanzan* spreng essential oil and its biological activities. *Asian journal of pharmaceutical and clinical research*, 103-108.
3. **Ajith.S**, Krishna V., Ravikumar S., (2021) Micropropagation of *Buchanania lanzan* spreng.-an endangered medicinal plant of the Western Ghats. *International Journal of Botany Studies*, 4(3), 147-151.
4. Naveen Kumar, Santosh Kumar Rajanna, Sachin Somashekhar Nayaka, **Ajith Sheshagiri**, Ravi Kumar Shiva Kumar, and Thippeswamy Basaiah. (2019) "Effect of Biological pre-treatment with the selective fungi *Aspergillus niger* and *Phanerochaete chrysosporium* ncm 1197 on enzymatic hydrolysis of areca nut (*Areca catechu* L.) Husk for bioethanol production by yeasts and *Zymomonas mobilis* ncm 2915." *Asian Journal of Microbiology, Biotechnology & Environmental Sciences Paper*, 21(1),157-166
5. Ravikumar, S., Krishna, V., & **Ajith, S.** (2020). *Bridelia scandens* wild. A new source for Podophyllotoxin production in vitro by feeding coniferyl alcohol. *Asian j pharm clin res*, 13(11), 50-54.
6. Ravikumar Shivakumar, Krishna Venkatarangaiah, Sudhesh Shastri, Ravishankara Burladinni Nagaraja, and **Ajith Sheshagiri**. "Antibacterial Property and Molecular Docking Studies of Leaf Calli Phytochemicals of *Bridelia scandens* Wild." *Pharmacognosy Journal* 10, no. 6 (2018).
7. Ravishankara B, Riaz Mahmood, V Krishna, Vinay Kumar NM, **Ajith S** (2021) Analgesic and Anti-inflammatory activity of fruit extract phytochemicals of *Chloroxylon swietenia* DC. *International Journal of Botany Studies*, 4(3), 153-161.
8. Santosh Kumar, H., Ravi kumar Kumar, S., Kumar, N. N., & **Ajith, S.** (2021). Molecular docking studies of gyrase inhibitors: weighing earlier screening bedrock. *In Silico Pharmacology*, 9(1), 1-10.
9. Sudhesh Shastri, Krishna Venkatarangaiah, and **Ajith sheshagiri** (2021): seed germination and micropropagation studies of *Mammea suriga* kosterm." *journal of microbiology, biotechnology and food sciences* 211-216.

10. Vinaykumar NM, Riaz Mahmood, V Krishna, B Ravishnakara, **Ajith S** (2021). *In vitro* Anti-Inflammatory And In Vivo Wound Healing Activity Of *Gardenia Gummifera* L.F Fruit And Stem Bark Methanol Extracts In Rats. *International Journal of Pharmaceutical Research* 13(1)
11. Ullas Prasana S, Krishna V., Ravikunar S., **Ajith S**, (2022) Supplementation of Urea as the nitrate source of MS medium and high-frequency regeneration of plantlets of *Musa paradisiac* cv. Malnad Rasbale. *Indian Journal of Agricultural Sciences*.
12. Ullas Prasanna Sadarahalli, Guruprasad Nadabhaga Manjunatha, Thammaiah Chekkera Kuttappa, **Ajith Sheshagiri**, Manjunath Kumbar (2022) Application of *Pseudomonas* strains for biocontrol of commercial crops susceptible to plant pathogens: A Review. *Agriculture review*.
13. Ullas prasanna, Krishna*, Ravi kumar, N. M. Vinay kumar, sachin S. Nayaka, k. Raagavalli and S. Ajith (2022). Trichoderma spp. intervened activation of defensive enzymes in *Musa paradisiaca* cv. Malnad Rasbale plantlets. *Journal of Biological Control*, 36(2), 000-000.

CONFERENCES / WORKSHOPS

- National Symposium on “**Current Trends In Biotechnology Research**” Organized by the Department of Biotechnology and Bioinformatics, Kuvempu University, Shankaraghatta on 31st March 2016
- **Phytochemical Screening and *In vitro* Antibacterial activity of *Buchanania lazana*** presented a poster during International Symposium held at Adichunchanagiri Institute for Molecular Medicine on January 2018
- National Conference on “**Biotechnology in Healthcare: Bench to Bedside**” Organized by the Department of Biotechnology, Sahyadri Science College, Shimoga.
- Two day workshop for PG Students **Research Opportunities In Biotechnology and Allied Studies** held at Dept. of Biotechnology and research Centre, Bapuji institute of Engineering and Technology, Davangere October 2013

- Ten Days National Workshop and Hands-on Training on “**Plant microbial interaction for the production of Therapeutic Compounds**” Kuvempu University, Shimoga, October 2019.
- Workshop on ‘**Role of plant taxonomy in the conservation of biodiversity,**’ Departments Kuvempu University Shankarghatta. November 2016.
- National conference “Frontiers research in diversity and taxonomy of medicinal plants presented poster ***In vitro* regeneration of celastrus paniculatus from stem explant culture.** Organized by the Biological Science Departments Kuvempu University.

TECHNICAL SKILLS

- ✓ **Instruments handling and maintenance:** HPLC, GC, Lyophilizer, Bioreactor, Biospectrophotometer, Auto Bioanalyzer, Rotary evaporator, Incubated shaker, Cold centrifugation units, Biosafety cabinets, Inverted and fluorescent microscopes, PCR thermocyclers, Sonicator, Server/GPU, Automated largescale sterilizers, etc.
- ✓ **Plant Tissue Culture:** Media preparation, Inoculation of explant, callus culture, suspension culture, Somatic embryo development, Histology, Micropropagation, etc. Plant grafting, budding, plant breeding, paper towel method,
- ✓ **Phytochemistry:** Preliminary phytochemical analysis, thin layer chromatography, preparative chromatography, column chromatography, fractionation, isolation of phytocomponent from complex extracts.
- ✓ **Pharmacology:** Animal handling, biochemical analysis of samples, animal dissection, isolation of test samples from dissected animals, histology of tissue samples, evaluation of phytocomponents on animal models.
- ✓ **Molecular Biology:** Isolation and analysis of DNA and RNA from cells/tissues of animals, plants, ancient and long-term preserved insect samples.
- ✓ **Biochemistry:** SDS-PAGE, ELISA, Lyophilization, quantification, Sonication, 2D Gel Electrophoresis.
- ✓ **Information Technology and Statistics:** Operating System: Windows and Linux; MS Office, Adobe Photoshop, Corel DRAW, SPSS, and Graph Pad Prism.

PERSONAL PROFILE

Ability to form and work in a team and can easily handle the pressure.

Proven leadership ability.

A truthful and reliable person who carefully prioritize work and always try to exceed expectations.

Always act with honor and integrity Ability to take a quality decision.

Proven ability in scientific troubleshooting.

Effective time management with great respect for deadlines.

Excellent communication and presentation skills.

Open-minded to new ideas and committed to self-improvement attention to detail.

HOBBIES

Chess, Cricket, Travelling, Gardening, Writing, Photography

MY WEBSITES

Google Scholar - <https://scholar.google.co.in/citations?user=0mQ7NvMAAAAJ&hl=en>

Research Gate - <https://www.researchgate.net/profile/Ajith-Bhat>

Linkedin - <https://www.linkedin.com/in/dr-ajith-bhat-207ba05b/>

REFERENCE

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1	Dr. V Krishna Professor, Dept. of Biotechnology Kuvempu University, Shnakraghatta – 577 451, Shimoga, Karnataka, India	krishnabiotech2003@gmail.com Mobile: +91 9448681856
2	Dr. Riaz Mahmood Professor, Dept. of Biotechnology Kuvempu University, Shnakraghatta – 577 451, Shimoga, Karnataka, India	tsriaz@gmail.com riaz_sultan@yahoo.com Mobile: +91 8447284636