

Ankit Kumar Dubey

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CAREER OBJECTIVE

To undertake a challenging career in the field, which involves real-time development, working experience in projects, and utilizing acquired expertise, creative talents, and commitment to attain greater efficiency.

ACADEMICS

- M.Sc. Biotechnology, 2017-2019, REVA University, Bangalore, Karnataka
- B.Sc. Biotechnology, 2014-2017, North Eastern Hill University, Shillong, Meghalaya

PROFESSIONAL EXPERIENCE

- April 2022-Present: Research Associate, Lupin Ltd., Pune
- April 2021- March 2022; Officer, Lupin Ltd., Pune.
- December 2019- September 2020; Project Associate, Department of Biotechnology, IIT Madras, Chennai.
- July- December 2019; Junior Data Analyst, MedGenome Labs Ltd. Bengaluru, Karnataka.

PROJECT EXPERIENCE

- Dissertation Research Fellow, Laboratory for Conservation of Endangered Species (LaCONES), CSIR-Centre for Cellular and Molecular Biology, Hyderabad. Jan -June 2019
- Project Trainee, North Eastern Hill University, Shillong, Meghalaya. April -June 2017

RESEARCH PROJECTS

- **Title - “Study of the Antimicrobial Activity of the Leaves Extract of *Rhus semialata* and its Phytochemical Analysis” (June - December 2017)**

Background – The leaves extract of *Rhus semialata* known to have antibacterial activity, so we explored its medicinal property using the disc diffusion and well diffusion method using the different microorganisms and analyzed for phytochemicals.

Results and Conclusion - The methanolic and aqueous extracts of the leaves of *Rhus semialata* showed antimicrobial activity against the test organisms. The aqueous extract showed antimicrobial activity against all the test organisms; hence, it is important to analyse the active compound present in the extract, which may be different from the methanolic and other solvents extract. This suggests that these fractions have broad spectrum of antimicrobial activity. The phytochemical analysis indicated presence of saponins, phenols, tannins, flavonoids and terpenes. However, the methanolic extracts showed the absence of alkaloids.

- **Title – “Development of primary fibroblast cells from the frozen-thawed ear skin piece of Hyena collected post- mortem” (Jan - June 2019)**

Background – Fibroblast has potential to be used in functional studies and thereby the generation from frozen thawed ear skin piece tissue of Hyena and its in-vitro characterization was carried out.

Results and Conclusion - The present study done indicated that the fibroblasts were successfully derived from the frozen- thawed ear skin tissue of Hyena collected post-mortem. The explant technique was found to be suitable for the establishment of cell lines, especially fibroblasts. The population doubling time of fibroblasts derived from the frozen- thawed tissue of Hyena collected post-mortem was 31.75 hours. The Karyotyping analysis of the cell lines from different passages showed the chromosomal count of $2n=40$ which is the genetic constitution of the Striped Hyena.

- **Title: “Identification and Characterization of Non-Enzymatic RAS Effector, RASSF7 as a potential transcription factor” (Dec 2019- Sep 2020)**

Project Not Completed due to COVID-19 pandemic

AWARDS AND ACHIEVEMENT

- 2021, Emerging Scientist Award, International Scientist Awards on Engineering, Science, and Medicine, VDGOOD Professional Association.
- 2020, Young Achiever Award, Institute of Scholars, Bangalore, Karnataka.
- 2020, Certificate of Excellence (Book Writing, Research Data Management, Certified Peer Reviewer), Researcher Academy, Elsevier.
- 2020. Teacher Innovation Award, ZIIEI, Sri Aurobindo Society.
- 2014. Certificate of Honour. B.S.F Senior Secondary School, Shillong, Meghalaya.

REVIEWER OF INTERNATIONAL JOURNALS

- Frontiers in Pharmacology (ISSN 1663-9812)
- Indo-Global Journal of Pharmaceutical Sciences (ISSN 2249-1023)
- InSc-International Journal of Basic and Applied Sciences

PUBLICATIONS

1. Singla, R. K., Dhir, V., Madaan, R., Kumar, D., Singh Bola, S., Bansal, M., Kumar, S., **Dubey, A. K.**, Singla, S., Shen, B. (2022). The Genus *Alternanthera*: Phytochemical and Ethnopharmacological Perspectives. *Frontiers in pharmacology*, 13, 769111. <https://doi.org/10.3389/fphar.2022.769111>
2. **Dubey, AK.**, Gupta, VK, Kujawska, M. *et al.* Exploring nano-enabled CRISPR-Cas-powered strategies for efficient diagnostics and treatment of infectious diseases. *J Nanostruct Chem* (2022). <https://doi.org/10.1007/s40097-022-00472-7>
3. Mostafavi, E., **Dubey, AK.**, Teodori, L., Ramakrishna, S., Kaushik, A. (2022). SARS-Cov-2 omicron variant: A next phase of the COVID-19 pandemic and a call to arms for system sciences and Precision Medicine. *MedComm*, 3(1), e119. <https://doi.org/https://doi.org/10.1002/mco2.119>
4. **Dubey AK.**, Chaudhry SK, Singh HB, Gupta VK, Kaushik A. (2022). Perspectives on nano-nutraceuticals to manage pre and post covid-19 infections. *Biotechnology Reports*, 33, e00712. <https://doi.org/10.1016/j.btre.2022.e00712>
5. Madaan R., Singla, RK, Kumar S, **Dubey AK.**, Kumar D, Sharma, P., Bala, R., Singla, S., Shen, B. (2022). Bergenin - a biologically active scaffold: Nanotechnological perspectives. *Current topics in medicinal chemistry*.2 (2):132-149 <https://doi.org/10.2174/1568026621666211015092654>
6. Singla RK, Sharma P, **Dubey AK**, Gundamaraju R, Kumar D, Kumar S, Madaan R, Shri R, Tsagkaris C, Parisi S, Joon S, Singla S, Kamal MA and Shen B (2021) Natural Product Based Studies for the Management of Castration-Resistant Prostate Cancer: Computational to Clinical Studies. *Front. Pharmacol.* 12:732266. <https://doi.org/10.3389/fphar.2021.732266>
7. **Dubey AK**, Lavanya L, Sadananda D, Gouthami K, Elfansu K, Singh A, Singh AK. (2021) Inferences of Carbon Dioxide in Present-Day Cell Culture Systems: An Unacknowledged Problem and Perspectives. *Austin Therapeutics*. 6(1): 1033 (<https://doi.org/10.26420/austintherapeutics.2021.1033>)
8. Singh AK, Singh A, **Dubey AK** (2021). Repurposed Therapeutic Strategies towards COVID-19 Potential Targets Based on Genomics and Protein Structure Remodelling, *Biotechnology to Combat COVID-19* (ISBN 978-1-83968- 627-6) IntechOpen. (<http://dx.doi.org/10.5772/intechopen.96728>)
9. **Dubey AK**, Singh A, Kumar M, Singh AK. (2020) Race to the arsenal of COVID-19: Current alarming status and future directions. *Chemico-Biological Interactions*. 332, 109298. (<https://doi.org/10.1016/j.cbi.2020.109298>).
10. Singh A, **Dubey AK**, Singh AK. (2020) COVID-19: An Overview of Diagnostic Approach and Novel Directions for Treatment Strategies. *J Clin Infect Dis Pract* 5: 311.

11. **Dubey A.K.**, M Ligi, Datta G.P. (2019). Bio hydrogen: An alternative as a conventional approach to fossils. *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences*. Special Issue of NCCWLS 2019: 150- 155. (<https://doi.org/10.26479/2019.0501.72>)
12. **Dubey A.K.**, M. Ligi. (2019). Biosensors: A predominant connected science innovation. *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences*. Special Issue of NCCWLS 2019: 179-184. (<https://doi.org/10.26479/2019.0501.72>)

MEMBERSHIP

1. All India Council for Technical Skill Development (AICTSD). June 2020 – Present
2. International Association of Oncology (IAO) (PM10269543)- August 2020-Present
3. Institute of Scholars (Professional Member) (InSc20203282)- January 2020-Present

TECHNICAL QUALIFICATIONS

- Surface Plasmon Resonance (Biacore T200), FT-IR Spectroscopy, CD Spectroscopy, Western blotting, Electrophoresis, SDS-PAGE, DNA Extraction (Plant, Animal tissues, cell lines), RNA Extraction, Polymerase Chain Reaction, Primer Designing, Biomolecules Estimation Analysis, LN₂ Tanks handling, Generation and Maintenance of cell lines, Reagent Preparation, Microbial Culture, Plant Tissue Culture, Statistical Analysis, Laminar Air Flow, Microscopy, Microbial and CO₂ Incubators, Vortex Machine, Centrifugation Machines, Stirrer, pH meter, Gel Doc, PCR Machine, Freezers {4°, -20°, -80°}, Autoclave, Water Bath.
- Scientific Writing, Editing and Formatting of manuscripts.
- Good communication and Problem-solving skills
- Ability to motivate others and Team working skills.

Computer Skills

- MS Office Tools
- Basics in Bioinformatics Tools.

REFERENCES

1. Dr. Sambasiva Rao Brahmasani

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CSIR-CCMB, Hyderabad
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3. Dr. Sanjiban Goswami

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DECLARATION

I hereby declare that the above information is true and correct to the best of my knowledge.

Place: Pune, Maharashtra

Date: 17th May 2022