

CURRICULUM VITAE



Dr. Nivedita Kolvekar
Assistant Professor
CES's Parvatibai Chowgule College of Arts and Science,
Margao.

EDUCATIONAL QUALIFICATION

Ph.D (Awarded on 21st July 2024)

BITS Pilani K K Birla Goa campus, India

Ph.D entitled as 'Studies on Purification and Characterization of a Phospholipase and a Serine Protease from Indian Russell's Viper Venom'

M.Sc-Biotechnology

Karnataka University Dharwad, India.

M.Sc Thesis: "Anti-microbial and insect repellent activity of methanolic extract of *Marrubium vulgare*"

Additional Qualification: Qualified KSET examination in the year 2014

B.Sc (Chemistry, Zoology, Biotechnology)

J.S.S College, Dharwad, India.

Pre- University

S.M.P.U Science college Dharwad, Karnataka, India.

S.S.L.C

Pavan English Medium High School, Dharwad, India.

WORK EXPERIENCE

| Sr. No | Post | Title of the work | Institute/University | Duration | Research/Teaching |
|--------|--------------|--|---|-------------------------------|-------------------|
| 1. | MSc. Project | Anti-microbial and insect repellent activity of methanolic extract of <i>Marrubium vulgare</i> | Karnataka University Dharwad and Agricultural University of Dharwad | Sep 2013- Feb 2014 (6 months) | Research |

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|----|-----------------------------------|--|--|---|-----------------------|
| 2. | Summer research project Intern | Characterization of genes involved in terpenoid biosynthetic pathway | Organic chemistry division, National Chemical Laboratory, Pune | 15 th Dec 2014- 14 th June 2015 (6 months) | Research |
| 3. | Project Assistant II | CSIR-NCL-IGIB Joint research initiative interfacing chemistry and biology | Organic chemistry division, National Chemical Laboratory, Pune | 11 th Mar 2015- 1 st Sep 2016 (18 months) | Research |
| 4. | Teaching faculty | - | Aryabhata Pre University Science College | 1 st Jul 2017- 28 th Feb 2018 | Teaching |
| 5. | Research Associate | Studies on the effect of Russell's viper venom on regulation of cell morphology, apoptosis and further characterization of the active compounds (ICMR) | BITS Pilani K K Birla Goa Campus | 30 th Jul- 2018 30 th Nov 2021 | Research and teaching |
| 6. | Ph.D Student | Purification and Characterization of a Phospholipase and a Serine Protease from Indian Russell's viper venom | BITS Pilani K K Birla Goa Campus | Jan 2019- Jun 2024 | Research and teaching |
| 7. | Mentor | Mentoring students joined for the Online Programme | Online Programs at BITS, Pilani. | Feb 2024- Jul 2024 | - |

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|----|--------------------------|--------------------------|--|--|----------|
| 8. | Student Co-Instructor | Practice school I (PS-1) | Practice School Divison, BITS Pilani K K Birla Goa campus | 28th May 2024- 23 rd Jul 2024 | - |
| 9. | Assistant Professor (LB) | - | Department of Biotechnology, Parvatibai Chowgule College of Arts and Science (Autonomous), Margao, Goa | Jan 2025- Apr 2025 | Teaching |

PUBLICATIONS

- **Kolvekar, N.**, Bhattacharya, N., Sarkar, A., & Chakrabarty, D. (2022). How snake venom disintegrins affect platelet aggregation and cancer proliferation. *Toxicon*, 106982.
- **Kolvekar, N.**, Bhattacharya, N., Mondal, S., Sarkar, A., & Chakrabarty, D. (2024). Daboialipase, a phospholipase A2 from *Vipera russelli russelli* venom possesses anti-platelet, anti-thrombin and anti-cancer properties. *Toxicon*, 107632.
- Bhattacharya, N., **Kolvekar, N.**, Mondal, S., Sarkar, A., & Chakrabarty, D. (2023). SPAD-1, a serine proteinase associated disintegrin from Russell's viper venom disrupts adhesion of MCF7 human breast cancer cells. *Toxicon*, 221, 106979.
- Bhattacharya, N., **Kolvekar, N.**, Mondal, S., Sarkar, A., & Chakrabarty, D. (2023). Biological activities of Vipegrin, an anti-adhesive Kunitz-type serine proteinase inhibitor purified from Russell's viper venom. *Toxicon*, 232, 107213.
- **Kolvekar, N.**, Bhattacharya, N., Mondal, S., Sarkar, A., & Chakrabarty, D. Viprutoxin, a serine proteinase from Russell's viper venom kills A549 lung cancer cells. 2024 (In communication)

WORKSHOPS AND SYMPOSIA

- Poster presentation and delivered a talk titled "Nature's Double-edged Sword-Phospholipase and a Serine Protease from Russell's viper venom" in the International Conference on Sustainable Healthcare from Biological Resources during 20-22 May, 2025.
- I was part of the organizing committee for the world congress of International Society on Toxinology which was held at the **National University of Singapore** in May 2024. I have presented a poster entitled "Cytotoxic agents from *Vipera russelli russelli* venom" and also was selected to give a flash talk at the conference. Selected for being a **member of future science committee at International Society on Toxinology 2024**.
- Selected to present my Ph.D work entitled "Anti-coagulant, anti-platelet and anti-cancer properties of a phospholipase from Russell's viper venom" at a webinar organized by International Society on Toxinology (IST) November 2023.
- **Life time student member of Society of Biological Chemists (SBC).**
- Poster presentation on Proteomics Day (Two interesting toxins from *Vipera russelii russelii* venom) at BITS Pilani K K Birla Goa Campus 2023.
- Poster presentation in 21st world congress of the International Society on Toxinology 2022.

- Participated in one day workshop on Research with Animals and Animal care 2022 at BITS Pilani K K Birla Goa Campus.
- Volunteered for International Conference on Drug Discovery held at BITS Pilani K K Birla Goa Campus Nov 10-11 2022.
- Attended NMR workshop and hands on training held at BITS Pilani K K Birla Goa Campus 2022.
- Attended workshop on Schrodinger Drug Discovery software training held at BITS Pilani K K Birla Goa Campus 2022.
- Poster presentation in 11th Asia pacific congress of the International Society on Toxinology 2021.
- Poster presentation at National Seminars on ‘Life and Life Processes: Interdisciplinary Approach for sustainable Development’ 2021.
- Participated in National Level conference on “Endocrinology and Reproductive biotechnology held on Feb 2013 at the department of biotechnology and Microbiology Karnataka University Dharwad, India.
- Participated in National Level conference on environmental Studies, “Biotechnology for sustainable development” held on Nov 2012 at the department of biotechnology and Microbiology Karnataka University Dharwad, India.
- Participated in State level conference on mesmerizing fields of Biotechnology (2011) held at S.D.M College Ujire, Karnataka, India.

AWARDS AND ACHIEVEMENTS

- **Poster Award** in the International Conference on Sustainable Healthcare from Biological Resources during 20-22 May 2025 at BITS Pilani K K Birla Goa Campus.
- **Winner of Science exhibition** “International year of chemistry 2011” held at JSS college Dharwad during Under graduate level.