

LAKSHMI SATHI DEVI

Researcher

CONTACT

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SKILLS

- Good analytical and research skills
- Reviewing, reporting, and research
- Excellent communication and presentation skills
- Polymer and organic synthesis
- Drug delivery
- Nuclear Magnetic Resonance (NMR)
- Rheology
- Gel Permeation Chromatography (GPC)
- Dynamic Light Scattering (DLS)
- RAMAN spectroscopy

LANGUAGES

English

Bilingual or Proficient (C2)

Hindi

Intermediate (B1)

Italian

Beginner (A1)

PROFESSIONAL SUMMARY

Dedicated **pharmaceutical chemistry** professional with a motivation of meeting state-of-the-art research goals utilizing advanced techniques and systematic practicals. Meticulous and well-trained in bringing top-notch expertise in analyzing materials and contributing to successful product development. Demonstrated knowledge of experimental and practical application strategies.

WORK HISTORY

Marie Skłodowska Curie-RISE SECONDMENT, 01/2022 - 01/2023
Percuros B.V- Leiden, The Netherlands

- Designing and development of combinatorial delivery system in order to implement standardized procedures for response and follow-up assessments to be performed multidisciplinary by radiologists, surgeons, and gastroenterologists.
- Skilled in hydrogel formulations and analyzing characterizations such as Rheology, DLS, and RAMAN.
- Attended and presented at various pharmaceuticals and chemistry based conferences.

POST-GRADUATE RESEARCHER, 11/2020 - 07/2021

University of Camerino - Camerino, Italy

- Learned new characterization techniques such as NMR, FT-IR, GPC and their application in analyzing the formulated products.
- Performed accurate quantitative analysis of targeted data research, collection, and report preparation.
- Conducted own research in the field of expertise of polymeric nanoparticle development for pharmaceutical applications

RESEARCH INTERN, 05/2019 - 06/2019

Biolim Center For Science and Technology - Tamil Nadu, India

- Nanotechnology - Nanocomposites development and their photocatalytic degradation studies.
- Attended meetings and presentations to learn more details about the basics of nanotechnology.

UNDERGRADUATE STUDENT RESEARCHER, 08/2018 - 02/2019

Mar Thoma College - Tiruvalla, Kerala, India

- Bachelor of Science - Thesis
- Physicochemical Analysis of Water - Water quality assessment by analyzing traces of different pollutants in drinking water samples from different urban natural water resources.

STUDENT RESEARCH FELLOW, 10/2017 - 12/2018

Kerala State Council For Science Technology and Environment - Kerala, India

- Soil Analysis - Analysis and assessment of heavy metal pollution and its impacts in different soil samples collected from the local urban areas.
- Used critical thinking to break down problems, evaluate solutions and make decisions.

EDUCATION

Ph.D. : PHARMACEUTICAL SCIENCES AND CHEMISTRY (Ongoing)

University of Camerino - Camerino, Italy

- Thesis: Biopolymer-based multifunctional delivery systems.

Master of Science: CHEMISTRY AND ADVANCED CHEMICAL METHODOLOGIES, 07/2021

University of Camerino - Camerino, Italy, Italy

- Thesis: Advanced Nanotechnology in the biomedical field

Bachelor of Science: CHEMISTRY, 03/2019

Mar Thoma College - Tiruvalla, Kerala- India, India

- Thesis: Physicochemical Analysis of Water
- Awarded STUDENT RESEARCH FELLOWSHIP by Kerala State Council For Science Technology and Environment, Government of Kerala, India for a project titled "Analysis and Assessment of heavy metal pollution and its impacts in soil".

PUBLICATIONS

Lakshmi Sathi Devi, Cristina Casadidio, Maria Rosa Gigliobianco, Piera Di Martino, Roberta Censi, Multifunctionality of cyclodextrin-based polymeric nanoparticulate delivery systems for chemotherapeutics, combination therapy, and theranostics, International Journal of Pharmaceutics, Volume 654, 2024, 123976, ISSN 0378-5173, <https://doi.org/10.1016/j.ijpharm.2024.123976>.