

VEDANT JOSHI

Nationality: Indian

Phone: +91 7720960264

Date of Birth: 05/08/1999

Gender: Male

Email: vedantjoshi.niperk@gmail.com ; vedantsuniljoshi@gmail.com

LinkedIn: www.linkedin.com/in/vedant-joshi-5ba639131

Address: National Institute of Pharmaceutical Education and Research, Kolkata, India.

EDUCATION AND TRAINING

Course/Education	Institute/University	Year of Passing	Performance
M.S.(Pharm)Pharmaceutics	National Institute of Pharmaceutical Education & Research, Kolkata	2023	Sem III SGPA -10
Bachelor of Pharmacy	MGV's Pharmacy College, Nashik	2021	First Division
Science, Intermediate (+2)	KTHM college, Nashik	2017	80%
Matriculate, 10 th	Shree Swaminarayan English Medium School, Nashik	2015	89.20%

PROJECT

Fabrication and Characterization of 3D-printed Biodegradable Microneedle | Prof. Dr. Pallab Datta, Assistant Professor, NIPER Kolkata. [07/2021 – current].

- Stereolithography (SLA) 3D printing is the most widely used resin 3D printing process. SLA is a member of the vat photopolymerization family of additive manufacturing technologies, also known as resin 3D printing. These machines all work on the same principle: they use a light source—either a laser or a projector—to cure liquid resin into hardened plastic.
- Learned the principle and working of several equipment's: 3D printers (SLA and FDM), Texture Analyzer, Rheometer, Lyophilizer, and SEM (sample preparation).
- Earned knowledge of software: AUTODESK Inventor, Fusion 360, AUTODESK CFD, PrusaSlicer, Blender.

Synthesis of Biodegradable resin for 3D printing | Prof. Dr. Sreya Gupta, Assistant Professor, NIPER Kolkata. [02/2023-03/2023]

- The resin used in 3D printing is called photopolymer resin, which is a liquid that turns into plastic through a chemical reaction with UV light. This resin has an acrylate group in it which under the presence of photoinitiators undergo photopolymerization.
- Hand-on-experience with the handling of various chemicals for the synthesis and further characterization/interpretation of this resin using AT-IT and NMR (only sample preparation).

The effect of change in concentration, pH, and temperature of glucose solution on specific rotation and optical rotation | Prof. Dr. Debatosh Datta, Visiting Professor, Centre for Healthcare Science & Technology, IEST, Shibpur. [02/2023 – 02/2023]

- A polarimeter is a scientific instrument that measures the angle of rotation caused by passing polarised light through an optically active substance. This was used to evaluate the effect of changes in concentration, pH, and temperature on optical rotation and specific rotation.
- Learned the principle and workings of the Polarimeter MCP-150 (Anton Paar, America) and pH meter (EUTECH Instruments pH 700).

Industrial Application Based Course Project | Prof. Bhushan Wagh, Professor at MGV's Pharmacy College, Nashik. [09/2018 – 08/2019]

- Pharmaceuticals: Preparation of tablet, capsule, ointment, suspension, emulsion, syrup, powder, and granules.
- Cosmetics: Formulation and preparation of the following cosmetic preparations: lipsticks, shampoos, cold cream and vanishing cream, toothpaste, hair dyes, and sunscreens.

MENTORSHIP ROLE

GPAT tutor at MGV's college.

Helped student solve their doubt regarding the exam and also guided them through the exam.

Organized a two-day workshop on 3D printing.

Taught the faculty members the principle and working on 3D printers along with that gave them a hands-on-experience on 3D printers.

LABORATORY SKILLS

Practical Skills

Fabrication of Tablet, Microneedle, and Microfluidic chip using the 3D printer (SLA); Preparation of Nanoparticles using Probe Sonicator and lyophilizer; Bioprinting of Scaffold using Bioprinter.

Instrumental Skills

3D Printing (Stereolithography and Fused Deposition Modelling), UV-Visible spectroscopy, Dissolution and Disintegration Apparatus, Friability Apparatus, Rheometer, Texture Analyzer, Ph Meter, Zetasizer, High-Speed Homogenizer, Probe Sonicator, Polarimeter, Refractometer and, Sample Preparation (DSC, TGA, SEM).

Software Skills

MS Office (Word, Excel, PowerPoint); Data retrieval using SciFinder, PubMed, Google Scholar, and Science Direct; Reference management using software like Endnote and Mendeley; Use of Software like ChemDraw, Autodesk, Fusion 360, Blender, and Pymol.

SCHOLASTIC ACHIEVEMENTS

Achievements	Performance	Year
Graduate Pharmacy Aptitude Test (GPAT)	Secured AIR750 among 8000 aspirants across the country.	2021
NIPER JEE 2021	Secured AIR 650 across 3653 aspirants across the country	2021
Maharashtra Health and Technical Common Entrance Test (MH-CET)	Scored 98 percentile across 40,000 across the state.	2017

POSITION OF RESPONSIBILITY

Position of Responsibility	Duration
Magazine Committee member of Spectra NIPER Kolkata	07/2023 – 07/2023
Core team member of spectra NIPER Kolkata	08/2021 – 08/2021
Class Representative at MGV's Pharmacy college	08/2017 – 07/2018

EXTRA CURRICULAR ACTIVITY

Conference and Workshop

- Attended a Preconference Workshop – (2022) “Advances in 3D Printing and Bioprinting & Publishing, Scientific Writing, and Communication” organized by Society for Tissue Engineering and Regenerative Medicine India (STERMI) in association with The Society for Biomaterials & Artificial Organs India (SBAOI) held at IIT-Indian Institute of Technology, Guwahati.
- Attended an International Conference on “Biomaterials, Regenerative Medicines and Devices” organized by Society for Tissue Engineering and Regenerative Medicine India (STERMI) in association with The Society for Biomaterials & Artificial Organs India (SBAOI). held on Dec 15th -18th 2022 at IIT-Indian Institute of Technology, Guwahati.
- Attended a National Conference organized by NEOTIA University on the topic of Drug delivery “Design and Development of Drug Delivery and Drug Targeting Systems” and secured 2nd prize in a Poster presentation.
- Attended an international conference organized by the Eminent College of Pharmaceutical technology on the topic “Drug Discovery and Development for Infectious Diseases” and secured 2nd prize in the poster competition.
- Participated in two-day state-level seminar on the current scenario of Natural Product stature in Commerce, Industry, and Regulation’ organized by Mahatma Gandhi Vidyamandir’s Pharmacy College.

REFEREES

Dr. Pallab Datta	Assistant Professor, Dept. of Pharmaceutics, NIPER Kolkata	pd@niperkolkata.edu.in
Dr. Sreya Gupta	Assistant Professor, Dept. of Medicinal Chemistry NIPER Kolkata	Sreya.gupta@niperkolkata.edu.in
Dr. Santanu Kaity	Assistant Professor, Dept. of Pharmaceutics, NIPER Kolkata	Santanu.kaity@niperkolkata.ac.in