



Biotechnology in Pharmaceutical India

International Academic Program

Concept

Intensive four-week program where the students will know about the India context, will gain professional skills and extend their professional network on the region. They will have knowledge of the Applications of Biotechnology in Pharmaceutical. The students take the courses at SRM University Delhi-NCR Sonapat, India, and they also will have a company visit and cultural activities.

Objectives

- Students will be able to design, conduct experiments, analyze and interpret data for investigating problems in Biotechnology and allied fields.
- Students will be able to understand the potentials, and impact of biotechnological innovation and their implementation for finding sustainable solutions to issues pertaining to the health sector.
- Career opportunities are for students with a biotechnology background.
- Research related skills: Demonstrate the ability to sense the scientific and technological trends in different academic and industry settings, and design experimental strategies to solve the scientific problems.

Academic Content

- Isolation, purification and morphological characterization of microorganisms, DNA isolation from Gram-positive and Gram-negative bacteria.
- Quantification of Genomic DNA Using Spectrophotometer, Integrity Checking of Genomic DNA by Agarose Gel Electrophoresis.
- Amplification of Genomic DNA Using Random Primers, Agarose Gel Electrophoresis of PCR Amplified Products, Cycle Sequencing Reaction (PCR Product) Run on PCR.
- RT-PCR Methods for detection of Antimicrobial Resistance.
- ELISA and Western blot
- Animal cell culture, and In vitro cytotoxicity studies for the mono/ combination of drugs.
- Phylogenetic characterization of bacteria for Analysis of molecular marker data for determination of genetic diversity.
- Introduction and Applications of Medical devices (Siemens COE).
- Guidance on Drug discovery and uses of Medical devices in Industries (Siemens COE).
- Developing microfluidic devices, and Bioreactors.
- Discussions on Job Prospects in the field of Pharmaceuticals Industries, and Academic and Technical requirements of Pharmaceuticals Industries.
- Interactions with Pharma-Industries and Identification of Job possibilities in the Pharmaceuticals

Details



TERM
4 Weeks



DATES
to be confirmed



DESTINATION:
India

Methodology

- 80 academic hours
- Lessons from Monday to Thursday.
- 5 hours per day (2 h theory and 3 h practical)
- Company visits
- Cultural visits

Host University

SRM University Delhi-NCR Sonapat, India
<https://www.srmuniversity.ac.in/>



Certification

At the end of the course, students will receive a certificate of academic accreditation from the University.

Services Included



ACCOMODATION

Double occupancy



ACADEMIC COURSE

80 academic hours



COMPANY VISITS

and guest lectures



MEALS INCLUDED

3 meals every day



24/7 COORDINATION

By Open Metier



CULTURAL

Visits



INTERNATIONAL MEDICAL

Insurance



AIRPORT TRANSFER

Only in group



TRANSCRIPT

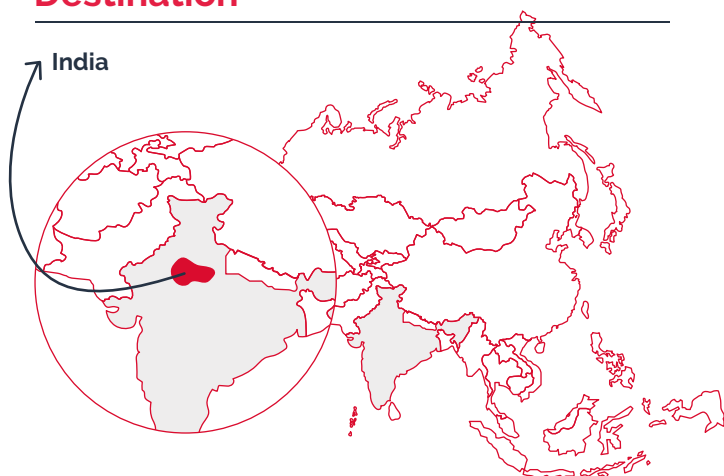
By the University



NOT INCLUDED

Air tickets and personal expenses

Destination



HEADQUARTER MÉXICO

Gonzalo Escudero

gescudero@openmetier.com

Cel. +52 442 250 1551

Skype: g.escudero08

HEADQUARTER ARGENTINA

Blanca Maffioly

bmaffioly@openmetier.com

Cel. +54 11 5592 6617

Skype: blanca.maffioly