

PERSONAL INFORMATIONS

Name **Parni Nijhawan**

Email

WORKING EXPERIENCE

- Date 10/10/2017 — 17/04/2018
 - Name and address of the employer Jawaharlal Nehru Center for Advanced Scientific Research (IISc.) A deemed University
 - Kind of employment Research assistant I was working as a research assistant on the sequencing of PTAP duplication in the HIV viral genome with a PhD student under the guidance of professor Dr. Ranga Uday Kumar in a well known HIV research laboratory at Jawaharlal Nehru Center for Advanced Scientific Research ,Bangalore, India. I worked there for a period of 7 months i.e from October 2017 to April 2018.

- Date December 2016 — May 2017
 - Name and address of the employer VIT University
 - Kind of employment Major Project
Aim - Synthesis of Nanoparticles and Estrogen Degradation Using Nanoparticles (Titanium Dioxide)
 - Titanium dioxide nanoparticles were Synthesized using Sol gel Method .
 - The effect of various concentrations of TiO₂ was henced studied.
 - Estrogen was degraded using Titanium dioxide Nanoparticles.
 - Individually handled project under the guidance of my faculty incharge Mrs. Jayanthi Abraham

- Date July 2016 — November 2016
 - Name and address of the employer VIT University
 - Kind of employment Minor Project
Aim -Formulation of Cosmetics using Macroalgae (Ulva reticulata and Sargassum spp.)
 - A face pack formulation using extracts of Ulva reticulata and Sargassum sp. was made. The extracts were also subjected to antioxidant assays and anti microbial screening.
 - Worked as project head under the guidance of my faculty incharge Mr. Sutindhiran K

- Date January 2016 — May 2016
 - Name and address of the employer VIT University
 - Kind of employment Major Project
Aim- Study the Anti biofilm and Anti quorum sensing activity of plant extracts of Plumeria alba, Pisonia alba, and Cynodon dactylon.
 - The plant extracts were subjected to antioxidant assay and tested for anti biofilm and anti quorum sensing activity with Chromobacterium as the indicator organism. Some phytochemical tests were also performed.
 - A team work where I was responsible for checking the anti biofilm activity.
 - The work weas carried under the Guidance of Professor Bhaskara Rao.
 - Plant extracts of Plumeria and Pisonia were found to be active inhibitors of biofilm formation

- Date July 2015 — November 2015
 - Name and address of the employer VIT University
 - Kind of employment Minor Project
Testing the anti bacterial and anti fungal activity of Streptomyces and some Fungi
 - Different bacterial and fungal strains were used to check the above mentioned properties of Streptomyces.

- Worked as team head.
- My work was to isolate all the the different strains of actinomycetes from marine water and fungal strains from nearby areas.
- Anti bacterial and anti fungal activities were studied in a manner similar to Kerby boyers Antibiotic sensitivity test.

- Date
- Name and address of the employer
- Kind of employment

June 2014 — June 2015

Delhi University (Government Funded Project)

Aim - To Study the Microbiological and Physicochemical quality of ground water in Delhi and NCR.

- Ground water was analysed for bacterial contamination and its other chemical properties such as TDS, pH etc.
- Studied morphology, type of bacteria and their basic properties on different media under different environmental conditions.
- High bacterial contamination was found in water collected from Madanpuri Khadar belt, Dwarka etc.
- Paper Published in Delhi Journal of Undergraduates.

CURRENT POSITION

Research Student (PhD) at Sapienza University of Rome.

I am working on HIV ,Tuberculosis and HCV infections. Title :Psycosexual health and systemic, mucosal immune activation in hiv-infected art suppressed and uninfected women: evaluation of biomarkers and environmental stimuli

My major tasks are to maintain a record of CD4 Cel count using the flow cytometer and perform immune actiavtion, MDC8 activation, Polyfunctional antibody analysis

EDUCATION AND TRAINING

- Date
- Name and type of training institution
- Qualification awarded

October 2018 to Present

Department of Public Health and Sanitation, Infectious Disesae Unit, Sapienza University of Rome,Italy.

PhD(Research Student)

- Date
- Name and type of training institution
- Qualification awarded

July 2015 — May 2017

Vellore Institute of Technology University

MSc. Applied Microbiology (88.7%)

- Date
- Name and type of training institution
- Qualification awarded

July 2012 — May 2015

Delhi University

BSc.(h) Microbiology (75.5%)

- Date
- Name and type of training institution
- Qualification awarded

April 2011 — March 2012

Lakes International School (C.B.S.E)

Senior secondary education (Science)(82%)

- Date
- Name and type of training institution
- Qualification awarded

April 2009 — March 2010

Lakes International School (C.B.S.E)

Higher secondary (9/10 CGPA)

SKILLS AND COMPETENCES

PERSONAL

MOTHER TONGUE

HINDI

OTHER LANGUAGES

- Reading ability
- Writing skills
- Oral expression skills

ENGLISH, ITALIAN

EXCELLENT

EXCELLENT

EXCELLENT

SKILLS AND COMPETENCES TECHNIQUES

Excellent knowledge of programs:

- Basic Microbiological Techniques
- Immune cell sorting ELISA
- Biomarker studies
- Evaluating Immune responses
- Flow Cytometric Analysis
- Plasmid DNA isolation
- Genomic DNA Isolation from bacteria and from human blood samples .
- PBMC Isolation from HIV positive patient blood samples.
- Primer designing
- Polymerase Chain Reaction (Long range, Nested, Droplet digital, Real time)
- Restriction Digestion
- Competent cells preparation and transformation.
- Cell culture (Handled HEK293T Cells).
- Hands on experience in study of biofilm formation, quorum sensing.
- Basic knowledge of all techniques used in molecular biology.

Research Techniques

- I am very well versed in handling and setting up PCRs, digestion, transformation, competent cell preparation.
- Immune activation of Infected cells.
- PBMC Isolation.
- ELISA
- I have hands on experience in working with biofilm forming bacterium such as *Cromobacterium* spp. etc.
- I am learning karyotyping and primer designing.
- I am good at maintaining cell cultures. Flow cytometry (Partly, as part of my research work)

Publications

- **Publication 1** - Microbiological and Physicochemical quality of ground water in a resettlement colony in Delhi, Delhi University Journal of Under graduates, Volume I, Issue 3, August 2015.
- **Publication 2** - Phytochemical screening, in vitro anti quorum sensing activity and antioxidant activity of extracts of *Plumeria alba*, *Pisonia alba*, *Cynodon dactylon*, Journal of Applied Pharmaceutical Science, Volume 7(02), pp. 162-166, February 2017.
- **Publication 3** - Impact of IFN-Free and IFN-Based Treatment on Blood Myeloid Dendritic Cell, Monocyte, Slan-DC, and Activated T Lymphocyte Dynamics during HCV Infection, Journal of Immunology Research, Volume 2020, Parni Nijhawan 3 Article ID 2781350, 11 pages, <https://doi.org/10.1155/2020/2781350>

Memberships

1. Member and team representative at SIMIT i.e Italian Society of Malative and Infectious Diseases à8Societa Italiana di Malative e Troicali),
2. Member and team representative at SIV (Italian Society of Virology)
3. Member International AIDS Society
4. Fund raiser at Juvenile Care Organisation.
5. Volunteer at AIDS Map.

Conferences Attended

- Impact Rome May 2019,
- 11th Italian Conference on AIDS And Antiviral Research ,Milan (June 2019)
- 3rd National Conference of Italian Society of Virology, Padua (September 2019)
- Stapa International Retreat , Rome June 2019 (Pasteur Institute) 8th
- International Conference on Neuro HIV.

Certificates

- VIT Bio summit (2015),(2016)
- Juvenile care (2016-17)
- VIT Chemistry Symposium
- PhD day Participant (May 2019)
- 11th Italian Conference on AIDS And Antiviral Research (June 2019)
- 3rd National Conference of Italian Society of Virology (September 2019)
- Stapa International Retreat 2019 (Pasteur Institute)

Extracurricular Activities

- Hobbies- Teaching, Dancing, Creative art, Travelling
- Participating in events like Bio summits and Symposiums
- Working for orphanages
- Playing Badminton
- Cooking

References

1. **Dr. Jayanthi Abraham**
Associate Professor
School of Bio sciences and Technology,
VIT University,Vellore,India.
2. **Dr.Bhaskara Rao**
Associate Professor
School of Bio Sciences and Technology,
VIT University,Vellore, India.
3. **Dr.Miriam Lichtner**
Associate Professor
Department of Public Health and Sanitation, Infectious Disesae Unit
Sapienza University of Rome,Italy.

I authorize the processing of my personal data present in the curriculum vitae pursuant to art. 13 of the Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data" and art. 13 of the GDPR (EU Regulation 2016/679).

ROMA, 25/08/2020