

# Dr. Manisha Pandey

M.Sc. D.Phil (Botany), University of Allahabad

Email- [pandeymanisha81@gmail.com](mailto:pandeymanisha81@gmail.com) Mob-09455470286/ 7069255355



Manisha Pandey

## **EDUCATIONAL QUALIFICATIONS**

- 1. Doctor of Philosophy, University of Allahabad, Allahabad (June 2014 – July 2017)**
  - Thesis Title: Studies on Scientific validation of traditional uses of some plants in cosmetics
  - D. Phil Course work: Six month D. Phil course work as per UGC regulation 2009 ( Aug 2014- Feb 15); Grade : A
- 2. Masters in Botany (M.Sc.), Banaras Hindu University, Varanasi (B.H.U) (July 2011 – 2013)**
  - Dissertation Title: Diversity of Cyanobacteria in Varanasi
  - Grade: 8.51/10
- 3. Bachelor of Science (B.Sc.), University of Allahabad, Allahabad (2007-2010)**
  - B.Sc. :Botany, Zoology, Chemistry
  - Percent: 66.64, I<sup>st</sup> division
- 4. Bachelor of Education (B.Ed.), University of Allahabad, Allahabad (2010-2011)**
  - Percent 57.42, II<sup>nd</sup> division

## **HONOURS AND AWARDS**

- 1. Qualified CSIR-NET-LS:** December, 2016
- 2. Prof. Panchanan Maheshwari Award,** for best paper presentation entitled **“IPR issues in relation to GM crops.”** (Research section) in National seminar on GM Crops: Challenges to the Environment and Health. Organized by Department of Botany, University of Allahabad, Allahabad and Swadeshi Jagran Manch, Allahabad on 11 April, 2015.

## **EXPERIMENTAL SKILLS**

- 1.** Isolation of DNA, RNA from Bacteria.
- 2.** Synthesis and characterizations of different nanoparticles.
- 3.** Handling of instruments like SEM, FTIR, ANAXOMATE advance instrument, UV Vis instrument.
- 4.** Working on RT-PCR, Gel Doc. and Elisa reader (Model Name: Spectra Max plus 384 of Molecular Devices, USA) Anaxomate advance instrument and CO<sub>2</sub> incubator etc.
- 5.** Culture of Aerobes and anaerobes bacteria, fungus and dermatophytes.

## **RESEARCH EXPERIENCES**

**Doctor of Philosophy, University of Allahabad, Allahabad**

**(June 2014 – July 2017)**

*Supervisor: Prof. Anupam Dikshit*

- Culturing aerobic *S. epidermidis* and anaerobic *P. acnes* bacteria
- Isolation and identification of bacteria using biochemical techniques and selective media
- Preparation of herbal extracts through *Rota evaporator* against causal organisms
- Extraction of essential oils through *Clevanger apparatus*
- Synthesis of Silver Nanaoparticles and testing their antibacterial activity
- Determination of MIC and IC<sub>50</sub> values of selected medicinal plants and Silver Nanoparticles through Spectra Max plus 384 of Molecular Devices, USA.
- Testing of antibacterial activity through Disc Diffusion Technique
- Determination of Free radical scavenging activity
- Development of Herbal Formulations
- Testing on Mice for effectiveness of herbal formulation against Acne Vulgaris

**Dissertation, Banaras Hindu University, Varanasi**

**(December 2012-July 2013)**

*Supervisor: Prof. K. D. Pandey*

- Preparation of media
- Isolation of Cyanobacteria from paddy fields in area around Varanasi
- Identification through Gram Staining and Electron Microscope

## **ACADEMIC EXPERIENCE**

- Undergraduate Labs: Microbiology/ Mycology, Angiosperm Taxonomy and Plant Anatomy, Plant pathology & Applied Microbiology
- Postgraduate Labs: Fungi/ Plant pathology
- Helped Post-Graduate Students in their Dissertation Work in the fields of : Clinical Microbiology

## **RESEARCH PUBLICATIONS**

**Research paper published / communicated in National / International Journals**

- **Pandey M**, Qidwai A , Kumar R, Pandey A, Shukla SK, Pathak A and Dikshit A (2017). Pharmacological and antibacterial aspect of *Psidium guajava* L. against Acne vulgaris. Int J Pharm Sci Res. 8(1): 145-50.doi: 10.13040/IJPSR.0975-8232.8(1).145-50.
- **Pandey M**, Qidwai A, Kumar R, Pandey A, Shukla SK, Pathak A and Dikshit A (2017) Investigation for invitro antibacterial activity of *Citrus Sinensis* L. against

*Propionibacterium acnes*. International Journal of Current Advanced Research 6 (8) 5400-5404. DOI: <http://dx.doi.org/10.24327/ijcar.2017.5404.0717>

- Qidwai A, **Pandey M**, Shukla SK, Kumar R, Pandey A, Dikshit A (2016). Antibacterial activity of *Mentha piperita* L. and *Citrus limetta* L. against *Propionibacterium acnes* (anaerobic bacteria). Int J Pharm Sci Res. 7(7): 1000-08.
- Qidwai A, **Pandey M**, Shukla SK, Kumar R, Pandey A, Dikshit A (2017). The Emerging Principles for Acne Biogenesis: A Dermatological Problem of Puberty. Elsevier, Human microbiome journal. (In press).
- Qidwai A, **Pandey M**, Shukla SK, Kumar R, Pandey A, Dikshit A (2017). Risk factor Assessment for *Acne vulgaris* in Human and Implications for Public Health Interventions in north central India: a Survey-Based Study. Asian J Pharm Clin Res, Vol 10, Issue 5, 2017, 1-6.
- Qidwai A, **Pandey M**, Kumar R, Dikshit A (2017). Comprehensive evaluation of pharmacological properties of *Olea europaea* L. for Cosmeceuticals prospects Springer Nature Customer Support.
- Pathak A, Mishra R.K., Shukla SK, Kumar R, Pandey M, **Pandey M**, Qidwai A and Dikshit A (2016). In-vitro evaluation of antidermatophytic activity of five lichens. Cogent Biol. 2: 1197472.
- Shukla SK, Kumar R, Pathak A, Pandey M, Qidwai A, **Pandey M** and Dikshit A (2017). Impact of Eco-friendly soil microbe on *Microtyloma uniforum* (Lam.) verdc: A medicinal pulse. Int J of Life sci and Phar Res..

#### Conference Proceeding Journal

- Kumar R, Shukla SK, Qidwai A, **Pandey M**, Pandey A (2016). Preparation, Characterization and antifungal evaluation of thymol encapsulated polymeric nanoparticles (TNPs) .

#### Book Chapter Published

- Shukla SK, Mishra RK, **Pandey M**, Mishra V, Pandey A, and Anupam Dikshit (2014). Plant metal interaction: emerging remediation techniques, chapter **21**, pp. 500-517. Land Reformation using PGPR in the context of Heavy metal contamination.

Elsevier Book, USA.ISBN: 978-0-12-803158-2. Elsevier Inc., 225 Wyman Street, Waltham, MA 02451.

#### **Research paper presented in national / international Conferences**

- **Invitro Investigative antibacterial activity of *Citrus sinensis* L. against *Propionibacterium acnes*** in International Conference of Current Scenario and Prospects of Nanotechnology and Bio-Statistics in **U.P. Rajarshi Tandon Open University** Allahabad from March 09-10, 2017.
- **“*Eucalyptus citriodora* L. antibacterial activity against treatment of Acne Vulgaris.”** in XXXIX All India Conference of Indian Botanical Society, held at Department of Botany, Ranchi University, Ranchi, Jharkhand from Oct. 21-23, 2016.
- **“Antibacterial activity of Zinc oxide nanoparticles against treatment of Acne Vulgaris.”** in International Conference of Current Scenario and Prospects of Nanotechnology and Bio-Statistics **U.P. Rajarshi Tandon Open University** Allahabad from February 25-26, 2016.
- **“Antibacterial activity of *Rubia Cordifolia* L. against Acne Vulgaris.”** In Biosangam 2016, MNNIT, Allahabad from February 4-6 2016.
- **“*Wrightia tinctoria* R. Br.: A promising herb for the treatment of some water borne diseases.”** In National seminar on “Emerging Trends in green technology and agriculture science.” Held at Swami Vivekanand University, Sagar (M.P.) on 14 Nov. 2014.
- **“IPR issues in relation to GM crops.”** In National seminar on GM Crops: Challenges to the Environment and Health. Organized by Department of Botany, University of Allahabad, Allahabad and Swadeshi Jagran Manch, Allahabad on 11 April, 2015.

#### **WORKSHOP/TRAINING EXPERIENCE**

- **“Workshop on Statistical Thinking & Data Analysis”** held at Department of Statistics, University of Allahabad. Allahabad. (2016)
- **“Biodiversity Awareness Workshop”** Organized by CSIR- National Botanical Research Institute and Department of Botany, University of Allahabad, Allahabad. Sponsored by Uttar Pradesh State Biodiversity Board (March 2015)

- **“Self Financed Short term course on “Biotechnology, Health and Diagnostics.”** Held at centre for medical diagnostics and research, Motilal Nehru National institute of technology Allahabad, Allahabad (January, 2015)

## PERSONAL DETAILS

- Date of Birth : 8 Aug 1989
- Gender : Female
- Marital status : Married
- Linguistic Abilities : Hindi, English
- Correspondence Address :  
C/O Shashi Kant Pandey  
D4/10 – Vikramnagar Colony  
Bopal Ambli Road, Behind ISKCON Temple  
Ahmedabad

## RECOMMENDATIONS

1. Prof. Anupam Dikshit, FNASc, Deptt. of Botany, University of Allahabad, Allahabad
2. Prof. K. D. Pandey, Deptt. of Botany, Banaras Hindu University, Varanasi
3. Prof. Archana Mankad, Deptt. of Botany, Bioinformatics and Climate Change Impacts Management, University School of Science, Gujarat University