

## Dr. Deepak Pandey

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### Qualifications:

- Ph.D. (Biotechnology), Himachal Pradesh University, Shimla, India (2011).
- M.Sc. (Biotechnology), Himachal Pradesh University (HPU), Shimla, India (2005).

### Professional training and past positions:

- Worked as Scientist-B at Central Tasar Research & Training institute, Ranchi, Central Silk Board, Ministry of Textiles, Govt. of India (from November 5, 2015 to September 12, 2016).
- Worked as Research Associate on the project entitled “Function of caseinolytic proteases in *Mycobacterium tuberculosis* pathogenesis” at National Institute of Immunology, New Delhi India (from August 5, 2011 to September 30, 2014).
- Ph.D. from Department of Biotechnology, Himachal Pradesh University, Shimla, India under the guidance of Dr. Duni Chand entitled “Studies on acyltransferase activity of amidase from *Bacillus* sp. APB-6 and synthesis of anticancerous acetohydroxamic acid” (2011).
- Winter training during M.Sc. at Amrit Banaspati Co (ABC) Ltd, India, Punjab, India, titled "Application of Biotechnology for Bio-bleaching and Environmental Pollution Control in an Agro-based Paper Mill”(January-March 2005).
- One year in-house project at Department of Biotechnology, HP University, India on “Purification and characterization of acyltransferase from *Nocardia globerula* NHB-2” (March 2004-April 2005).

### Services offering or going to offer:

- Teach/ demonstrate molecular biology and biochemical techniques to the MSc students.
- Supervise students for short term training and PhD.

### Research areas & interest:

- Prostate pathologies (BPH & prostate cancer).
- Ovarian cancer.

### **Projects: ongoing, submitted and past:**

- Intramural research project entitled “To study the effects of dietary flavonoids on prostate epithelial cells growing under the influence of prostate stromal cells” funded by AIIMS, New Delhi (2017-19).

### **Publication list (including submitted):**

#### **Papers**

- Choudhury AR, Gupta S, Chaturvedi PK, Kumar N, **Pandey D**\*. Mechanobiology of cancer stem cells and their niche. *Cancer Microenviron*, 2019 (doi: 10.1007/s12307-019-00222-4: **\*Corresponding author (Impact Factor: 3.00)**)
- Choudhury AR, Kumar N, Sandeep K, **Pandey D**\*. Stem cell repertoire in the prostate epithelium. *J Stem Cell Res Ther*, 2019; 5(2): 44-46. (doi: 10.15406/jsrt.2019.05.00133: **\*Corresponding author**)
- Singh R, **Pandey D**, Dhariwal S, Sood P, Chand D. Bioconversion of acrylonitrile using nitrile hydratase activity of *Bacillus* sp. APB-6. *3 Biotech*, 2018; 8(5): 225 (doi: 10.1007/s13205-018-1207-1) (**Impact Factor: 1.497**)
- Singh R, **Pandey D**, Devi N, Chand D. Bench scale production of butyramide using free and immobilized cells of *Bacillus* sp. APB-6. *Bioprocess Biosyst Eng*, 2018; (doi:10.1007/s00449-018-1951-y) (**Impact Factor: 2.139**)
- Choudhury AR, Kumar N, Sandeep K, **Pandey D**\*. Biotechnological Potential of Stem Cells. *J Stem Cell Res Ther*, 2017; 3(1): 212-219. (doi: 10.15406/jsrt.2017.03.00090: **\*Corresponding author**)
- Kumar P, **Pandey D**, Thakur V, Thakur A, Chand D. Hyperproduction of tannin acylhydrolase in submerged fermentation from *Aspergillus fumigatus*. *J Adv Microbiol*, 2017; 3(2): 60-77 (ISSN Online: 2349-7785)
- Yadav D, Sandeep K, **Pandey D**, Dutta RK. Liposomes for Drug Delivery. *J Biotechnol Biomater*, 2017; 7: 276. (doi: 10.4172/2155-952X.1000276)
- **Pandey D**, Singh R and Chand D. An improved bioprocess for synthesis of acetohydroxamic acid using DTT (dithiothreitol) treated resting cells of *Bacillus* sp. APB-6. *Bioresour. Technol*, 2011; 102, 6579–6586. (**Impact Factor: 5.807**)

#### **Book Chapters:**

- Kumar N, **Pandey D**, Halder A. Preventive, diagnostic and therapeutic applications of baculovirus expression vector system. In: Kumar D, Gong C (Eds). *Trends in Insect Molecular Biology and Biotechnology*. First edition. Austria: Springer; 2018: pp 163-191.
- Singh A, Kumar K, Kumar N, Chaudhary DP, **Pandey D**\*. Protein purification: Basic principles and techniques. In: Bhatt AK, Bhatia RK, Bhalla TC (Eds). *Basic*

### **Proceedings in International Conferences**

- Chand D, Arora K, **Pandey D**, Kumari P, Devi N and Singh R (2013). Batch and fed-batch synthesis of butyrylhydroxamic acid using alginate gel entrapped *Bacillus* sp. APB-6: in proceedings of XXI<sup>st</sup> International Conference on Bioencapsulation, Berlin, Germany: p 01.
- **Pandey D**, Chand D, Singh R and Bhalla TC (2008). Encapsulation of resting cells of *Nocardia globerula* NHB-2 in agar gel beads and optimization of process parameters for amidohydrolase activity: in proceedings of XVI<sup>th</sup> International Conference on Bioencapsulation organized by Dublin City University, Dublin, Ireland: p66.
- Singh R, Chand D, **Pandey D** and Bhalla TC (2008). Encapsulation of resting cells of *Nocardia globerula* NHB-2 in alginate gel beads and optimization of process parameters for their acyltransferase activity: in proceedings of XVI<sup>th</sup> International Conference on Bioencapsulation organized by Dublin City University, Dublin, Ireland: p64.
- Chand D, Vitzthum F, Sogani M, **Pandey D**, Singh R, Verma N and Bhalla TC (2007). Batch and fed-batch mode synthesis of acetohydroxamic acid using acyltransferase activity of resting cells of *Nocardia globerula* entrapped in alginate gel beads: in proceedings of XV<sup>th</sup> International Conference on Bioencapsulation, Vienna, Austria: S1-05.

### **Abstracts**

- **Pandey D**, Pandey RK, Minz A, Singh R and Chand D (2006). Purification and Characterization of amidase from *Bacillus* sp. APB-6: in abstracts of 47<sup>th</sup> Annual conference of Association of Microbiologists of India (AMI) organized by Barkatullah University, Bhopal, India: p 180.
- Chand D, Kumar D, **Pandey D**, Verma N and Singh R (2006). Production of wide-spectrum amidase from *Bacillus* sp. APB-6: in abstracts of 47<sup>th</sup> Annual conference of Association of Microbiologists of India (AMI) organized by Barkatullah University, Bhopal, India: p 180.
- Verma N, Chand D, Kumar D, Singh R and **Pandey D** (2006). Isolation, screening and production of L-glutaminase producing microbes: in abstracts of 47<sup>th</sup> Annual conference of Association of Microbiologists of India (AMI) organized by Barkatullah University, Bhopal, India: p 188.
- **Pandey D**, Chand D, Verma N, Patel SKS, Dubey NK, Tyagi N and Bhalla TC (2005). Purification and characterization of acyltransferase from *Nocardia globerula* NHB-2: in abstracts of 46<sup>th</sup> Annual conference of Association of Microbiologists of India (AMI) organized by Osmania University, Hyderabad, India: p 75.
- Patel SKS, Chand D, **Pandey D**, Verma N, Kumar D, Tyagi N and Bhalla TC (2005). Isolation and screening of acyltransferase producing bacterial strains and optimization

of production and reaction conditions: in abstracts of 46<sup>th</sup> Annual conference of Association of Microbiologists of India (AMI) organized by Osmania University, Hyderabad, India: p 75.

- Tyagi N, Chand D, **Pandey D**, Verma N, Patel SKS, Kumar D and Bhalla TC (2005). Purification and Characterization of amidase from *Nocardia globerula* NHB-2: in abstracts of 46<sup>th</sup> Annual conference of Association of Microbiologists of India (AMI) organized by Osmania University, Hyderabad, India: p 47.