

## CURRICULUM VITAE

### **Parvez Singh Slathia**

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### **Research Interests:**

- Bioinformatics for designing vaccines
- Bioethanol production from lignocellulosic materials
- Probiotic studies on Lactic Acid bacteria

### **Externally funded research Projects:**

- Molecular Modeling and drug docking studies on Cystathionine beta lyase in pathogenic members of Enterobacteriaceae funded by University Grants Commission (UGC)
- Exploring potentials of probiotic bacteria as a potential source of phytate degrading enzymes and bacteriocin production funded by Department of Biotechnology, Govt. of India

### **Publications:**

- **Slathia PS**, Sharma P. (2016) Epitope based DNA vaccine design using epitopes predicted from Zika virus polyprotein. *International Journal of Infectious Diseases* 53, p149
- Sharma P, Raina N, **Slathia PS**, Katoch M, Bhagat D. (2016) Pretreatment strategies adopted for production of bioethanol from soft wood material of *Shorea robusta* and *Cedrus deodara* tree species. *New Biotechnology*. 33, Page S69
- Sharma P, **Slathia PS**. (2016) Physico-chemical studies of Devika river and its adjoining water bodies in Udhampur town. *Proceedings of Indian Ecological Society- International conference 2016*. 1, 67.
- **Slathia PS**, Sharma P. (2014) Analyzing pneumococcal surface protein A (PspA) variability for predicting conserved T cell epitopes and designing conserved epitope based DNA vaccine. *Pneumonia*. 3,120.
- **Slathia PS**. (2013) DNA Vaccine Design for Chikungunya Virus Based On the Conserved Epitopes Derived from Structural Protein. *Proceedings of the International Conference on Bioinformatics, Computational Biology and Biomedical Informatics* Pages 849
- Sharma S, **Slathia PS**, Verma V. (2012) *Jatropha curcas* as a source of biodiesel: its limitations and need for new plant resources. *Journal of Biofuels*. 2 (2) 98-106.
- Sharma P, **Slathia PS**, Somal P, Mehta P. (2012) Biotransformation of cholesterol to 1,4-androstadiene-3,17-dione (ADD) by *Nocardia* species. *Annals of Microbiology*. 62 (4) 1651-1659

- **Slathia PS**, Sharma P. (2012) Predicting conserved epitopes in the variants of amastin protein of *Leishmania major* and designing an epitope based immunogenic DNA vaccine. International Journal of Infectious Diseases. 16 (1), e314
- Akhoun BA, **Slathia PS**, Sharma P, Gupta SK, Verma V. (2011) In silico identification of novel protective VSG antigens expressed by Trypanosoma brucei and an effort for designing a highly immunogenic DNA vaccine using IL-12 as adjuvant. Microbial Pathogenesis 51(1-2) 77-87.

### **Memberships of Professional Societies**

- Life Member of International Society of Infectious Diseases (ISID)
- Life Member of Asian federation of Biotechnology (AFOB)
- Life Member of Biotech research Society of India (BRSI)
- Life Member of Indian Science Congress Association

### **Countries Visited**

USA, the Netherlands, Belgium, Thailand, Singapore, Hong Kong, South Korea, Austria, Hungary, Slovakia, Germany, France

### **Papers Presented at International Conferences:**

- Production of ethanol from alkali pretreated pine needles using different fermentation methods at 5<sup>th</sup> International conference on Advances in Chemical, Biological and Environmental Engineering (ACBEE-17) 29-30 March, 2017 at Singapore.
- Epitope based DNA vaccine design using epitopes predicted from Zika virus polyprotein at International Meeting on Emerging Diseases 4-7 November, 2016 at Vienna, Austria.
- Bioethanol Production from Acid Pretreated Pine Needles Using Simultaneous Saccharification and Fermentation (SSF) and separate hydrolysis and Fermentation (SHF) at 1<sup>st</sup> International conference on Recent Advances in Bio-Energy Research 14 – 17 March, 2015 at Sardar Swaran Singh National Institute of Renewable Energy, Kapurthala, Punjab.
- Analyzing pneumococcal surface protein A (PspA) variability for predicting conserved T cell epitopes and designing conserved epitope based DNA vaccine at 9<sup>th</sup> International Symposium on Pneumococci and Pneumococcal Disease 9-13, March, 2014 at HICC, Hyderabad, India.
- DNA vaccine design for Chikungunya virus based on conserved epitopes derived from structural protein at 4th Immunoinformatics and Computational Immunology Workshop in conjunction with ACM-BCB conference 22-25, September 2013 Washington DC, USA
- Use of Bioinformatics tools for designing a DNA vaccine based on conserved epitopes located in the variants of structural polyprotein of Chikungunya virus with IL-15 as adjuvant at 2nd Antivirals Congress. 11-13 November 2012. Cambridge, MA, USA.
- Prediction of conserved epitopes in amastin protein of *Leishmania major* for designing epitope based immunogenic DNA vaccine at 15th International Conference of Infectious Diseases. June 13-16, 2012 at Bangkok, Thailand.
- Ethanol production from wheat straw using simultaneous saccharification and fermentation with *Trichoderma* as cellulase source at International conference on New Horizons in Biotechnology Nov 21-24, 2011, Trivandrum, India

- Targeting Cystathionine beta lyase in Leishmania: In silico approach at the 10th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases. November 3-5, 2010, Amsterdam, the Netherlands
- Jaiv Oorja: A Biofuels database at The Eighth Asia Pacific Bioinformatics Conference January 18-21, 2010, Bangalore, India
- Simultaneous Saccharification and Fermentation of *Saccharum munja* for ethanol production at the International Conference on Emerging Trends in Biotechnology (ETBT, 2009) Dec. 4-6, 2009, Varanasi, India

#### **Papers Presented at National Conferences:**

- Bioinformatics analysis of conserved epitopes in Pneumococcal surface protein A (PspA) of *Streptococcus pneumoniae* for designing DNA vaccine at India Biodiversity Meet-2013 March 14- 16, 2013. Kolkata, India
- Predicted conserved epitope based peptide vaccine design against West Nile Virus (WNV) and Japanese Encephalitis Virus (JEV) at 7th J&K State Science Congress October 13-15, 2011, Jammu, India
- DNA Vaccine against Ebola virus: an *in silico* approach at the Silver Jubilee symposium on Bioinformatics. February 2, 2011, Pondicherry, India
- Molecular modeling and Drug docking studies on cystathionine beta lyase in *Salmonella typhimurium* at the Silver Jubilee symposium on Bioinformatics. February 2, 2011, Pondicherry, India
- Cellulosic ethanol production from *Saccharum munja* and *Typha latifolia* at North Zone Meet & National Symposium on “Microbial Diversity and Bio-prospecting” Oct. 29-30, 2010, Jammu, India

#### **Academic Qualification**

<b>Qualification</b>	<b>Board/University</b>	<b>Duration</b>
Ph.D (Biotechnology)	University of Jammu	Currently Pursuing
M.Sc. (Biotechnology)	University of Jammu	2003-05
B.Sc.	University of Jammu	2000-03

#### **National Level Exams Qualified**

- Qualified CSIR NET JRF Exam in 2006
- Qualified GATE 2005 with 95.20 percentile
- Qualified combined entrance exam for Admission to M.Sc. biotechnology conducted by Jawahar Lal Nehru University, Delhi, India

#### **Scholarships & Awards**

- Received full time scholarship during the period of M.Sc. from Department Of Biotechnology, Govt. of India
- Junior Research Fellowship from CSIR
- Travel grant awarded by Department of Science & Technology, Govt. of India
- Travel grant awarded by Department of Biotechnology, Govt. of India