

## Cover Letter

I am writing to express my interest to work as a Ph.D. student in your research group, please allows me to submit my resume for your review. Currently I am working as senior research fellow at Institute of Liver and Biliary Sciences, New Delhi, India. I have completed my M.Tech in Biotechnology from Amity University Gurgaon (Manesar), Haryana, India. After completing M.Tech I worked as a junior research fellow in the Department of Biotechnology at Amity University, Uttar Pradesh, India from Feb 2014 to Oct 2015. Then I worked as a research fellow in Centre for Medical and Diagnostic Research at Motilal Nehru National Institute of Technology, Allahabad, India from Oct 2015 to Jan 2017. I have good hands on experiences in molecular biology techniques as well as in microbiological techniques and basic knowledge of few bioinformatics software and tools. I have also published few book chapters and review articles related to biological sciences.

My academic curriculum provided me a good knowledge on different theoretical subjects implied in the research projects, and the capacity to integrate different disciplines of biology. In addition, working in different disciplines and with different people has permitted me to develop a keen attitude towards good team work, management, communication and great interpersonal skills to work autonomously. Further, I have completed my undergraduate and postgraduate studies in English medium, thus I believe I have well command over my language and won't be facing any problems in communicating in your country.

I am very enthusiastic and keen to work under your guidance and equally confident that I will be able to provide valuable contribution to your laboratory's future prospective and initiatives.

Thank you very much and I appreciate your time. Please find my CV with all the details below. I am looking forward for your kind communication.

Thanking You.

Sincerely

Gaurav Yadav

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## Gaurav Yadav

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### Objective

To seek a Ph.D. level position in a growth oriented research group in the field of Astrobiology so as to make full use of my potentials, gives me enough encouragement to work for the growth of the group, my personal and professional enhancement of knowledge and confidence in the field of Astrobiology and wants to acquire the perfection in this area with further growth in my skills and capabilities.

### Research Work Experiences

- |                        |   |
|------------------------|---|
| Feb 2018-<br>Till yet  | Senior Research Fellow in a Science and Engineering Research Board, Department of Science and Technology funded research project at Institute of Liver and Biliary Sciences, New Delhi, India.  |
| Oct 2015 –<br>Jan 2017 | Research Fellow in MHRD funded multi-institutional research project entitled ‘Design and Innovation Centre’ at Motilal Nehru National Institute of Technology Allahabad.  |
| Feb 2014 –<br>Sep 2015 | Junior Research Fellow in a DBT funded research project entitled ‘Assessment of the anti-apoptotic property of lithium used as lithium chloride in combination with Coenzyme Q and Vitamin E against retinal ganglion cell degeneration’ at Amity University Uttar Pradesh (Noida). |

### Education

- |      |   |
|------|---|
| 2013 | MTech. (Biotechnology), Amity University Gurgaon (Manesar) Haryana, India           |
| 2011 | BTech. (Biotechnology), Uttar Pradesh Technical University, Lucknow, India          |
| 2006 | Higher Secondary Examination (English, Physics, Chemistry and Maths), I.S.C., India |
| 2004 | Secondary School Certificate Examination (PCMB), I.C.S.E., India                    |

### Professional Synopsis

- ✚ MTech.(Biotechnology) with 3+ years of research experience in government funded R & D projects.
- ✚ Area of study: Animal Biotechnology, Molecular Biology, Proteomics, Microbiology

## Training

Jan- July  
2013

**Organisation:-CSIR-Central Drug Research Institute, Lucknow, India**

Project:- *In Vivo & In Silico* study of herbal extracts of *Hibiscus rosa-sinensis* and *Saraca indica*.

June- July  
2012

**Organization:-Institute Of Transgene Life Sciences, Lucknow, India**

Project:- Industrial Training In Biotechnology.

June- July  
2010

**Organisation:-Biotech Park, Lucknow, India**

Project:-Isolation, Identification & Quantification of DNA, RNA & Blood Proteins using Molecular Biology Techniques.

## Techniques Learned

- ✚ Have an experience of **molecular biology** techniques like:
  - RT-PCR
  - 16s RNA based DNA sequencing using NGS method
  - ELISA
  - SDS-PAGE
  - Western Blotting
- ✚ Cell lines cytotoxicity studies
- ✚ Immunohistochemistry
- ✚ Microbial isolation from rhizosphere, culturing and their identification
- ✚ In vivo toxicity study, Animal handling, Histopathology
- ✚ Basic knowledge of bioinformatics, phylogenetic tree construction using phylip software, chromas etc. docking using autodock.

## Accolades

- ✚ Has completed the online course "**Astrobiology and the Search for Extraterrestrial Life**" by The University of Edinburgh on Coursera. Certificate earned at Monday, June 11, 2018.
- ✚ Has completed the online course "**Mindshift: Break Through Obstacles to Learning and Discover Your Hidden Potential**" by McMaster University on Coursera. Certificate earned at Wednesday, October 18, 2017
- ✚ Seven days workshop on 'DNA Sequencing: Applications in Diagnostics and Health Care Innovation' at Centre for Medical Diagnostic and Research (CMDR), MNNIT Allahabad.
- ✚ Seven days workshop on 'Flow Cytometry: Application in Research, Diagnostics and Health Care Innovation' at Centre for Medical Diagnostic and Research (CMDR), MNNIT Allahabad.
- ✚ Two days workshop on 'In-silico strategies for disease pathway analysis and biomarker discovery' at Biotech Park, Lucknow.
- ✚ One day Author workshop organized by 'Springer' at MNNIT Allahabad.

## Publications

### Research Article:

- 1) Maras JS, Das S, Sharma S, Sukriti S, Kumar J, Vyas AK, Kumar D, Bhat A, **Yadav G**, Choudhary MC, Sharma S, Kumar G, Bihari C, Trehanpati N, Maiwall R, Sarin SK. (2018) Iron-Overload triggers ADAM-17 mediated inflammation in Severe Alcoholic Hepatitis. *Sci Rep.* 8:1

### Book Chapters:

- 1) **Yadav G.** et al. (2017) Emerging Significance of Rhizospheric Probiotics and Its Impact on Plant Health: Current Perspective Towards Sustainable Agriculture. In: Kumar V., Kumar M., Sharma S., Prasad R. (eds) **Probiotics and Plant Health.** Springer, Springer Nature Singapore
- 2) Vishwakarma K, Sharma S, Kumar V, Upadhyay N, Kumar N, Mishra R, **Yadav G**, RK, Kumar and Tripathi DK (2017) Current Scenario of Root Exudate- Mediated Plant- Microbe Interaction and Promotion of Plant Growth. In: Kumar V., Kumar M., Sharma S., Prasad R. (eds) **Probiotics inn Agroecosystem,** Springer Nature Singapore

### Review Articles :

- 1) Vishwakarma K, Upadhyay N, Kumar N, **Yadav G**, Singh J, Mishra RK, Kumar V, Verma R, Upadhyay RG, Pandey M and Sharma S (2017) Abscisic Acid Signaling and Abiotic Stress Tolerance in Plants: A Review on Current Knowledge and Future Prospects. *Front. Plant Sci.* 8:161.
- 2) Tripathi DK, Tripathi A, Shweta, Singh S, Singh Y, Vishwakarma K, **Yadav G**, Sharma S, Singh VK, Mishra RK, Upadhyay RG, Dubey NK, Lee Y and Chauhan DK (2017) Uptake, Accumulation and Toxicity of Silver Nanoparticle in Autotrophic Plants, and Heterotrophic Microbes: A Concentric Review. *Front. Microbiol.* 8:7

## Personal Dossier

**Father's Name** – Mr. Rajendra Prasad Yadav

**Contact Address**– 91/3, North Malaka, Allahabad, Uttar Pradesh- 211001

**Date of birth** – 1<sup>st</sup> July, 1987

**Languages Known** –English, German (Elementary), Hindi