

# BRIJESH SINGH YADAV

Assistant Professor, Ph.D.

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[Research Gate](#)

## Personal Details

Date and place of birth: 10.07.1981, Ghazipur, India

## Education

2014 – Doctor of Philosophy in the field of Viral Genomics, H.N.B. Garhwal Central University and India Veterinary Research Institute Izzat Nagar, India

Thesis title: "Development and Validation of DNA Microarray chip for Diagnosis of Viruses Prevalent in India"

2007 – Master of Science in the field of Bioinformatics, A.P.S. University Rewa, India

Thesis title: "Active Site Structure Prediction in Catalytic Protein through Artificial Neural Network" at Indian Institute of Information Technology, Allahabad, India

2004 – Bachelor of Science, Central University of Allahabad, India

## Professional Career:

- 2017- up to present: Assistant Professor, Center of Bioengineering, University for Information Science and Technology "St. Paul the Apostle", Ohrid, R. Macedonia
- 2016- 2017: Visiting Scientist, Agriculture Research Organization, Ministry of Agriculture, Israel
- 2013-2016: Post Doc Fellow, Danny Chamovitz Lab, Tel Aviv University, Israel
- 2009-2013: Senior Research Fellow, Division of Biochemistry, India Veterinary Research Institute Izzat Nagar, India

## Scholarships and Grants

- FEBS Transcontinental YTF award to attend course at Italy 2018.
- NPDF grant by Department of Science and Technology Board, govt. of India 2017-2019
- ARO Visiting scientist (Ministry of Agriculture and Rural Development) Israel, 2016-2017
- The PBC Fellowships for Outstanding Post-doctoral Researchers from China and India -2013-2016
- NSF (National Science Foundation) travel and lodging grant to attend the Plant metabolic workshop at University of Minnesota, USA 2015
- MHRD India (Ministry of Human Resource Development) Scholarship 2013 for Research in Israel from Indian students

## Courses thought:

### *Master studies*

- Data Mining
- Basics of Bioinformatics
- Computer Aided Drug Designing

### *Undergraduate studies:*

- Genetics
- Bioinformatics
- Ecology
- Artificial Intelligence
- Human Computer Interaction
- Data Mining
- Pattern Recognition

## Professional Membership

1. Biochemical Society- No.01080510
2. ASPB (American Society of Plant Biology) Id. 34637198
2. International Society for Applied Life Science (ISALS) No. 2015 – 10071981 Since 2012
3. International Association of engineering (IAENG) No. 65209, Since 2012

**Research Interests:** Systems Biology, Computer Aided Drug Design, Biological Data Mining, Plant Abiotic stress and Metabolomics, Metagenomics, Big Data Analysis.

### **Selected Publications:**

1. B.S. Yadav, T. Lahav, E. Reuveni, S. Freilich, DA. Chamovitz. Multidimensional patterns of metabolic response in abiotic stress-induced growth of *Arabidopsis thaliana*. *Plant Molecular Biology*, 2016 Dec; 92(6):689-699.
2. S. Gupta, Brijesh S. Yadav, Utkarsh Raj, S. Freilich, Pritish K. Varadwaj. Transcriptomic analysis reveals changes in expression of genes in *T. aestivum* cv. root in response to nutrients deficiency. *Frontiers in Plant Science*. 2017; 8: 1025.
3. Katz, E; Nisani, S; Yadav, BS; Woldemariam, M; Shai, B; Obolski, U; Ehrlich, M; Shani, E; Jander, G; Chamovitz, D. The glucosinolate breakdown product indole-3-carbinol acts as an auxin antagonist in roots of *Arabidopsis thaliana*. *The Plant Journal*. 2015; 82(4):547-55.
4. Brijesh Singh Yadav\*, Vijay Tripathi, Ajeet Kumar, Md.Faheem Khan, Abhijit K. Barate, Ajay Kumar and Bhaskar Sharma. Molecular modeling and docking study of Dectin-1 (PAMP) receptor of *Bubalus bubalis*. *Expr Mol Pathol*. 2012 Feb; 92(1):7-12.
5. Brijesh S. Yadav\*, Mayank Pokhriyal, Dinesh P. Vashista and Bhaskar Sharma. Animal viruses Probe Dataset (AVPDS) for microarray based diagnosis and identification of viruses. *Current Microbiology*. March 2014, Volume 68, Issue 3, pp 301-304.