

Mr. SANDEEP DASHRATH BANSODE

Designation : ASSISTANT PROFESSOR
Email ID : sandeep.bansode@dpu.edu.in
Phone Number : 020-67919444 Extn. -9449/Mobile :9049782206
Qualification : M.Sc. Bioinformatics
Area of interest : Mathematical modeling and Simulation of Virus-Host Interaction

Bioinformatics Skills:

Biological databases, Sequence Analysis, Pattern/motif discovery, Data mining, Molecular dynamics and simulation, Microarray analysis, Comparative Genomics and Proteomics, Algorithms(Machine Learning, SVM, Artificial Intelligence, Genetic Algorithm),Mathematical modeling and Simulation,Genetics,Molecular Biology,Biochemistry,Immunology,Epidemiology.

Computer Skills:

Programming languages	Perl, Python,C, R-Bioconductor
Database	MySQL Microsoft Access, Oracle
Web programming	HTML, CSS, PHP,WAMP,LAMP
Operating System	Windows,Linux, Unix,Android,iOS.

Academic Project Details:

Name of institution	Description	Title of Project	Duration
Bioinformatics Centre, University of Pune,	M.Sc. Dissertation Project	“A Genus-Specific Protein patterns of viruses from VirGen Database”	Sep 2005 – May 2005

Work Experience:

Organization/Institute: Dr. D.Y. Patil Vidyapeeth's Dr. D. Y. Patil Biotechnology and
Bioinformatics Institute

Duration: From Feb 2017 to Present (4 Months).

Designation: Assistant Professor

Organization/Institute: Vidya Pratishthans School of Biotechnology
Duration: From Feb 2013 to Jan 2017(4 years).
Designation: Senior Scientist/Head (Bioinformatics)

Organization/Institute: **Trance Technologies**
Languages/Tools : Perl, Ajax, JSON, Java Script, Unix, Oracle.
Duration: From 01/10/2012 to 31/01/2013(4 months).
Designation: Software Engineer.

Organization/Institute: **National Research Centre On Plant Biotechnology (IARI) Pusa
Campus New Delhi**

Project Title : Generation, Characterization and use of EMS induced mutant of
Functional genomics in rice
Duration : April 2007 – September 2012 (5 years)
Designation : Research Associate.

Organization/Institute: **National Institute of Virology Pune**

Project Title : Multi-site monitoring of Human Influenza virus in India Phase-I
Scope of Project : Creation of Influenza virus patient Database.
Duration : From 16-01-07 to 31-03-07(3 months)
Designation : Programmer

Organization/Institute: **Vidya Pratishthan's School of Biotechnology**

Role/Responsibility : Teaching Basic course in Bioinformatics for B.Sc (Applied
Biotechnology), B.Sc. Biotechnology, M.Sc. Biotechnology.
(Theory and Practicals). Maintaining Bioinformatics Lab. Updation
of the institute website. Regular checking of the funding agencies
websites. Guided Six projects in Bioinformatics for B.Sc.
Biotechnology students. And a coordinator for aquaculture under
Biovillage Project, Development of Medicinal Plant Database.
Duration : From 01-12-05 to 13-01-07(1 year 1 month).
Designation : Research Associate.

Organization/Institute: **Bioinformatics Centre University of Pune**

Role/Responsibility : Working on Validation of Genus Specific Protein Patterns of
viruses (Calculation of Sensitivity and Specificity and Automation)
Languages/Tools : Perl, MySql, PHP, NCBI, ClustalW, Emboss, GCG
Package, VirGen, PDB, Unix, SGI Onyx Server.
Duration : From 01-5-05 to 01-11-05(6 months).
Designation : Research Associate

Awards:

DBT-JRF Qualified in 2005.

Conference Attended:

- 1 International Conference on 'Fifty Years of Discovery of Triple helical structure of Collagen: Progress & Perspectives' January 21-22,2005
- 2 International Conference on Bioinformatics (InCoB) IIT Delhi, December 18 - 20, 2006.
- 3 National Conference on Recent Trends in Biotechnology & Industry Academia Interaction (8 - 9 March 2010)

On- going projects:

- 1) Smart phone based diagnostic kit development for viruses.
May 2014 – Present.
- 2) Structural Analysis of Conformational Epitopes of Vp1 protein for sac brood virus. Feb 214-present.
- 3) Smartphone based Genome sequencing technology Feb 2008 – Present.
- 4) Genus Specific protein patterns of Viruses Oct 2005 – present.
- 5) Mathematical modeling and Simulation of Virus-Host Interaction
Jun 2005 – Present.

Invitation:

Invited As A Speaker.

BIT Life Sciences' 3rd Annual World Congress of Gene-2009

Time: December 1-7, 2009 Venue: Foshan, China

Theme: March into New Era of Bio-Economy

Website: <http://www.bitlifesciences.com/wcg2009>

1st Annual World Congress of Microbes-2011(WCM-2011)

Theme: From Disease Management to Industrial Biotechnology

Time: July 30-August 1, 2011

Venue: Beijing, China

2nd Annual World Congress of Virus and Infection (WCVI)

Time: July 30-August 1, 2011

Place: Beijing, China

Website: <http://www.bitlifesciences.com/wcm2011/>

6th Annual World Congress of Vaccine-2014 (WCV-2014)

Theme "Voice of Global Health"

April 25-28, 2014 in Dalian, China

International Conference on Physiological Computing Systems

(PhyCS 2014 - <http://www.phycs.org>),

Lisbon, Portugal (January 7 - 9, 2014) position papers.

Poster Presentation:

At International Conference on Bioinformatics (InCoB) IIT Delhi, December 18 - 20, 2006 on “Genus specific protein patterns of viruses”.

Publication:

- Urmila Kulkarni-Kale, Shriram G. Bhosle, G. Sunitha Manjari, Manali Joshi1, Sandeep Bansode, Ashok S. Kolaskar. 2006. Curation of viral genomes: Challenges, applications and the way forward , BMC Bioinformatics.
- Manuscript/Abstract Communicated In Nature journal May-2017 On “Structural Analysis of Conformational Peptide of VP1 Protein of Sac Brood Virus infecting Honey Bee”.

Strengths:

- 1 Proficient communication skills in English.
- 2 Proven ability to analyze and interpret large biological datasets
- 3 Strong written English and a familiarity with presenting biological result.
- 4 Experience with Perl scripting languages
- 5 Ability to both lead and work-at-par with members on a team.
- 6 Analytical and critical thinking.
- 7 Positive approach in all endeavors.
- 8 Appreciable formulation and implementation of assigned tasks.

Sandeep Bansode