

PRASHANT SAXENA

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SKILLS

- Immunology & Immunoinformatics
- Molecular modelling & Drug design
- Molecular Docking
- Molecular Dynamics & Simulation
- QSAR Modelling & Analysis
- NGS Data Analysis
- Programming: R & Python

CAREER HIGHLIGHTS

- Awarded Best Poster presentation Award
- Published research papers in peer-reviewed journals.
- Presented research work in International/National Conferences.
- Supervised the thesis work of various students.

PERSONAL DETAILS

Date of Birth	18-Dec-1990
Father's Name	R. K. Saxena
Nationality	Indian
Sex	Male
Marital Status	Married
Languages known	English & Hindi

PROFESSIONAL SUMMARY

A professional with 6+ years of experience in academics & administration with hands-on expertise in Bioinformatics tools & insilico drug designing. Having a deep commitment towards teaching & research. Adapt at mentoring team members for accomplishing tasks.

WORK EXPERIENCE

Assistant Professor, Department of Biotechnology

Kunwar Satyavira College of Engineering and Management, Bijnor (UP) | 2015 - Till Date

- Promoted as Head of Biotechnology Department.
- Organized Tech-Fest, a technical event to showcase the technical ideas, for consecutive 3 years.
- Member of Exam Core Committee, for managing all sort of exam-related work.
- Foster student's commitment towards learning by connecting course material to broader themes.
- Develop examinations & writing skills to monitor students' progress and understanding.
- Demonstrated a continued commitment towards teaching through full participation in the college community.

EDUCATION HIGHLIGHTS

Ph.D - Biotechnology (Thesis Submitted)

IFTM University, | 2016-2017

Title: Comparative In Silico Studies On Proteome Of Chikungunya Virus For Vaccine Development

M. Tech - Bioinformatics

Satyabhama University, Bioinformatics | Batch 2013-2015

- Participated in 7 International Conferences/Seminar.
- Member, of the International Society of Computational Biology.
- **Dissertation:** Comparative transcriptome analysis of Taxus species for the production of Taxol, an anticancer drug.

B. Tech - Bioinformatics

Satyabhama University, Bioinformatics | Batch 2009-2013

- Participated in 2 National & 2 International Seminar/Conferences.
- Member of the International Society of Computational Biology
- **Dissertation:** Insilico Characterization and Epitope mapping of *Coccidioides immitis*

ACHIVEMENTS

- Awarded Best Poster Presentation Award at BIOSPECTRUM-2019 Kolkata.
- Translator at NPTEL & Swayam (English to Hindi)
- Promoted as Head of Department.
- Awarded Star of Excellence in the year 2013.
- Gold Medallist for outstanding grades during B.Tech & M.Tech

PUBLICATIONS

- Amin, I., **Prashant Saxena** Glioblastoma a Malignant Form of Tumor: a Review on Its Cellular Target, Route, and Its Treatment. Curr. Tissue Microenviron. Rep. (2022). <https://doi.org/10.1007/s43152-022-00037-4>
- Sanjay Mishra, Ram B. Singh, **Prashant Saxena**, Amit Kumar Mani Tiwari and Abbas Ali Mahdi, "A Review on Genetically Modified Organisms and Foods Perspective and Challenges", IOSR-JBB, 6(4), 2020:19-25.
- **Prashant Saxena**, Sanjay Mishra, "Chikungunya Outbreak from 1952-2019: A Prospective to Cope-Up with this Re-emerging Disease", Biointerface for Applied Chemistry, 11(4), 1174-1187 (2020).
- **Prashant Saxena**, Madhavi Saxena & Sanjay Mishra, "Binding Pattern of cTAP Binding Epitopes of S-27 Strain with the Common HLA Alleles for the Chikungunya Vaccine Development: An In-silico Study" (2020), IOSR-JPBS, 15(4): 29-34.
- **Prashant Saxena**, Mishra, S. Study of the Binding Pattern of HLA Class I Alleles of Indian Frequency and cTAP Binding Peptide for Chikungunya Vaccine Development. Int J Pept Res Ther 26, 2437–2448 (2020)
- Indra Pratap Singh, Sara Hasan, **Prashant Saxena**, RNAi: Gene Silencing, Int J Res in Engg, Science and Management 2(9): 2019.
- Shivani Sharma, **Prashant Saxena**, "Predicting evolution of coloured vision in mammals through system biology approach" Onl J Bioinform., 16(2): 188-193, 2015.
- **Prashant Saxena**, Balashankar K, "Comparative transcriptome analysis for non model Taxus species for taxol biosynthesis" J. Chem. Pharm. Res., 2015, 7(3):806-813.
- **Prashant Saxena**, Jemmy Christy, Risk assessment studies on HLA association with drug induced hypersensitivity caused by anti-tuberculosis drugs – an in silico approach, BMC Infectious Diseases 05/2014; 14(suppl 3):45.
- **Prashant Saxena**, Shashank Srisimal, Inamul HM, "A global comparison and analysis of neuraminidase H1N1 strain of influenza A", Int J Pharm PharmSci, Vol 7, Issue 4: 259-263.
- **Prashant Saxena**, Jemmy Christy, "Epitope prediction and structural analysis of PRA antigen of Coccidioides", Int J Pharm PharmSci, Vol 6, Issue 9, 238-343.
- Jitendra K Gupta, **Prashant Saxena**, Rohit Thakur, Inamul HM, "Virtual Screening of Solanine and its derivatives to analyse inhibitory activity towards Acetylcholinesterase for the treatment of Alzheimer's disease", Int Muldisci Research Journal. 05/2014; II(II):1999-2012.

BOOK CHAPTER:

- **Prashant Saxena**, Sanjay Mishra, Ram B. Singh, and Madhvi Saxena, "In silico Clinical Trials: A Broad-Spectrum Scope of CADD", Nova Publication, ISBN: 978-1-53619-739-6.
- Ram B. Singh, Sanjay Mishra, **Prashant Saxena**, Madhvi Saxena, Priya, Manal M.A. Smail6, and Sudha R Velluri, " Genetically modified organisms and foods: perspectives and challenges" Academic Press Elsevier ISBN: 978-0-12-819815-5

PRESENTATIONS- ORAL

- NCGI-15, SRM University, Chennai, India, Jan 21-23, 2015, "Identification of unknown enzymes of the metabolic pathway of Taxol using Next-Generation sequencing (NGS) approach" Prashant Saxena, G. Ramesh Kumar.
- CIMI-13, NCW, Coimbatore, India, Oct 3-4, 2013, "Insilico Characterization and epitope mapping of *Coccidioides immitis*" Prashant Saxena, Jemmy Christy.
- BIOTREK-13, SAACE, Kancheepuram, India, Sep 27, 2013, "Drug Delivery System based on Nanotechnology" Prashant Saxena, Xavier Suresh.
- BIOFLARE-12, ANITS, Visakhapatnam, India, Feb 17-18, 2012, "Computational approach for drug designing" Prashant Saxena.

PRESENTATIONS-POSTER

- 2 Day Virtual International Conference on "Recent Advances in Drug Discovery" Dr. Rajendra Gode Institute of Pharmacy Amravati "Study the Interaction Patterns of cTAP1 & HLA Class I alleles with the Antigenic Peptides of Chikungunya Virus", 15-16 December 2021.
- 3rd International Conference on Biological Science "BIOSPECTRUM-2019" University of Engineering & Management, Kolkata, India, 8-10 August 2019, "Study the binding patterns of HLA class-I & cTAP binding peptides for chikungunya" Prashant Saxena, Sanjay Mishra. ISBN: 978-93-5361-17-2, Page: 125.
- NGBT, International conference on Next Generation Genomics and Bioinformatics, SGRF, Bangalore, India, Nov 17-19, 2014. "Prediction of the missing enzymes of Taxol biosynthesis pathway using Next-Generation sequencing (NGS) approach" Prashant Saxena, G Ramesh Kumar.
- ISSHID, 2nd International Science Symposium on HIV & Infectious Diseases, YRG care, Chennai, Jan 30-Feb 1, 2014, "Risk assessment studies on HLA association with drug-induced hypersensitivity caused by anti-tuberculosis drugs" Prashant Saxena, Jemmy Christy.
- ISRTMSF, 6th International Symposium on Recent Trends in Macromolecular Structure and Function, University of Madras, Chennai, India, Jan 22-24, 2014. "Molecular modelling and docking studies of natural compounds to inhibit cell wall growth of Mycobacterium tuberculosis" Prashant Saxena, Xavier Suresh.
- RACDD, International conference on Recent Advances in Computational Drug Design, IISc, Bangalore, Sep 16-17, 2013. "Insilico Studies of Natural Lead Structures targeting Influenza" Prashant Saxena, Jemmy Christy.
- International Conference on Structural and Functional Genomics, Sastra University, Thanjoor, India, Jan 3-5, 2013. "Insilico Characterization and epitope mapping of *Coccidioides immitis*" Prashant Saxena, Jemmy Christy.
- ISRTMSF, 5th International Symposium on Recent Trends in Macromolecular Structure and Function, University of Madras, Chennai, India, Jan 23-25, 2012. "Delay in the functioning of PME protein of *Musa acuminate*" Prashant Saxena, M. Xavier Suresh.

CERTIFICATE COURSES/FDP'S

- 5 Days Faculty Development program on "Computer Genomics Tools for Next-Generation Sequencing and Biomedical Data Analysis" Organized by ATAL Academy, Coordinated by Bharathiar University.
- Online Course on "Introduction to Genomic Technology" authorized by Johns Hopkins University and offered through Coursera.
- 5 Days Faculty Development Program on "Computer Science and Biology: Impact of Bioinformatics and Molecular Biology on Drug Discovery" Organized by ATAL Academy, Coordinated by College of Engineering & Technology, IILM Academy of Higher Learning.
- 5 Days Faculty Development Program on "Application of Biotechnological and Analytical Tools in Pharmaceutical Research" Organized by ATAL Academy, Coordinated by MIET Meerut.
- One-week Course on Instructional Planning & Delivery – Student Evaluation Conducted by Education & Educational Management Department, NITTTR – Chandigarh.
- One-week Course on Energy Sources & Energy Conservation by Electrical Engineering Department, NITTTR – Chandigarh.
- 4 Days Workshop on "Academics Leadership" organized by CALEM-AMU, under scheme by PMMMNMTT MHRD Govt. of India.
- 12 Weeks course on "Bioinformatics & Algorithms" attended online, through NPTEL and attain the Elite Certificate.
- 5 Days Faculty Development Program on Universal Human value organized by AICTE, govt. of India.
- 5 Days Faculty Development program on "online UHV Refresher 1" organized by AICTE, govt. of India.