

HOME

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Rohtak
Haryana
124001

WORKPLACE

Assistant Professor
Room No. 225-A
Centre for Bioinformatics
Maharshi Dayanand University
Rohtak-124001
Haryana



At present:

Working as Assistant Professor in Centre for Bioinformatics, M.D.U. Rohtak since 19/09/2013.

Experience:

Worked as Research Associate at Centre for Biotechnology, M.D.U. Rohtak from July 2013 to Sep 2013. (Awarded UGC-BSR Scholarship)

Worked as Teaching Associate (Bioinformatics) from July 2012 to April 2013 in Department of Biotechnology , DCRUST, Murthal, Sonapat.

Worked as Assistant Professor (Bioinformatics) from Aug 2011 to May 2012 in Department of Biochemistry , Kurukshetra University Kurukshetra.

Worked as Assistant Professor (Bioinformatics) from Sep 2010 to April 2011 in Department of Biochemistry , Kurukshetra University Kurukshetra.

Educational Qualification:

Exam Passes	University/ Board	Year of Passing	Percentage of marks obtained	Division	Subject studied including options
Metric	CBSE	2002	76.6%	First	Hindi, English, Math, Science Social Science
10+2	CBSE	2004	73.4%	First	Physics, Chem, Biology, Hindi, English
B.Sc. Medical	Panjab University, Chandigarh	2007	72.3%	First	Chemistry, Botany, Zoology, Eng
M.Sc. Bioinformatics	Banasthali University	2009	73.7%	First	Subjects related to Bioinformatics
Pre. Ph.D	M.D. University, Rohtak	2013	58%	Second	Computational and System Bio, Research Methodology and Trends in biotechnology

Ph. D.	M.D. University, Rohtak	2017	Subject: Biotechnology <u>Title of Thesis:</u> “ <i>IN-SILICO</i> CHARACTERIZATION AND VALIDATION OF <i>ASPERGILLUS FUMIGATUS</i> ALLERGENS AS PROTECTIVE MOLECULES” <i>Chief Supervisor: Prof. Anil Kumar Chhillar</i>
Any other exam	CSIR/UGC NET exam held in Dec, 2009 Qualified HTET (Biology), Nov 2011.		

Publications:

1. **Dangi M**, Singh B, Chhillar AK. (2016). Reverse Vaccinology: An Epitope Based Approach to Design Vaccines. *Current Bioinformatics* 11(5):537-550.
2. **Dangi M**, Singh B, Chhillar AK. (2017). Reverse Vaccinology to Computationally Screen Antigenic Epitopes as Potential Vaccine Candidates from Clostridium botulinum Strain Hall A. *Current Bioinformatics* 12(4):349-360.
3. **Dangi M**, Singh B, Dhanda SK, Chaudhary R, Chhillar AK. (2017). Comprehensive Analysis and Annotation of Available Fungal Allergens for the Presence of T-cell and B-cell epitopes and Development of the SVM Based Classifiers for in silico Prediction of Novel Allergen Sequences. *Anti Infective Agents* 15: (E-pub Ahead of Print) DOI: 10.2174/2211352515666170504160927
4. **Khatri S, Phougat N, Dangi M and Chhillar AK.** (2017). Antibacterial, antioxidant, chemical constituents and cytotoxicity evaluation of Terminalia arjuna (Roxb. ex DC.) Wight & Arn. *Asian J Pharm Clin Res*, 10; 1-6.
5. Renu Chaudhary, Meenakshi Balhara, Deepak Jangir, Mrridula Dangi, **Mehak Dangi**, Savita Khatri, Anil K. Chhillar. (2018) The Sesamum indicum Rhizosphere Associated Bacterium: A Source of Antifungal Compound. *Current Topics in Medicinal Chemistry* 18(1) DOI : 10.2174/1568026618666180206102140
6. Renu Chaudhary, Meenakshi Balhara, Mrridula Dangi, **Mehak Dangi**, Anil K. Chhillar. (2018) **Rhizosphere microbiome: An emerging frontier in causing and curing infectious diseases.** *Asian Journal of Pharmaceutical and clinical research* 11.

BOOK CHAPTER

1. Dangi M, Kumari R, Singh B, Chhillar AK. **Publisher:** Springer **Name of book:** Bioinformatics: Sequences, Structures, Phylogeny, **Editor:** Asheesh Shanker **BOOK CHAPTER No.16:** Advanced in-silico tools for designing of antigenic epitope as potential vaccine candidates against Corona virus. (**ACCEPTED**)

Publications during Post Graduation:

Articles published in National Training Program on Proteomics and Structural Bioinformatics, organized by National Dairy Research Institute, Karnal. (2009).

- Title: "Homology Modeling: Principles and Procedure using SWISS-MODEL"
By: S. K. Sood, Mehak Dangi* and Puja Lather
Senior Scientist, Animal Biochemistry Division, NDRI, Karnal
*Banasthali University, Banasthali, Rajasthan
- Title: "Structural and functional annotation of genomes"
By: S.K. Sood, Puja Lather and Mehak Dangi*
Senior Scientist, Animal Biochemistry Division, NDRI, Karnal
*Banasthali University, Banasthali, Rajasthan
- Title: "Protein structure analysis using SWISSPDB VIEWER"
By: S.K. Sood, Puja Lather and Mehak Dangi*
Senior Scientist, Animal Biochemistry Division, NDRI, Karnal
*Banasthali University, Banasthali, Rajasthan

Article published in National Training Program on Application of Bioinformatics Tools in Animal Genome Analysis, organized by National Dairy Research Institute, Karnal. (2009).

- Title: "*IN SILICO* GENOME ANALYSIS"
By: S.K. Sood, Puja Lather and Mehak Dangi*
Senior Scientist, Animal Biochemistry Division, NDRI, Karnal
*Banasthali University, Banasthali, Rajasthan

Workshops/ Seminars/ Training and other related information:

- Participated in International symposium on Biodiversity and Biobanking (BIODIVERSE2018) organized by IIT Guwahati held from 27 Jan to 29 Jan 2018
- Attended workshop on Wildlife ecology and Seribioresources organized by Directorate of Sericulture, BTC; College of veterinary science, Khanapara and Association for the promotion of DNA fingerprinting and other DNA technologies held from 30 Jan to 01 Feb, 2018
- Attended one day National conference-cum-workshop on Emerging Infectious Diseases conducted by Biotechnology Department, MDU on 29 Nov 2017.
- Attended National seminar on Advances in Virology on 28 Sep 2017 conducted by CMBT, MDU.
- Attended workshop on Save ozone layer organized by Environment Science Department, MDU on 16/Sep/2016
- Attended National Research Colloquium MFEE-2016 conducted by Microbiology Department on 2/April 2016

- Participated in 2 days workshop on In-silico Drug Discovery by BioDiscovery Group 20-21 Sep 2014
- Participated in Symposium on "Current Trends in Bioinformatics" organized by Bioinformatics Centre, CSIR-IMTECH
- Participated Conference/Seminar on Molecular Pathology of Human Genetic Diseases held on 23rd Aug 2014 in Genetics
- Attended 3rd International Research Colloquium on Interdisciplinary Scope of Microbiology: IRCISM 2015, held on 31st January, 2015 by Department of Microbiology, M.D. University, Rohtak.
- Attended National Workshop on Bioinformatics, organized by Centre for Biotechnology, Maharshi Dayanand University, Rohtak. (2010)
- Done 6 month dissertation at National Dairy Research Institute, under the guidance of Dr. S.K. Sood, Sr. Scientist, Animal Biochemistry Division, NDRI, Karnal, Haryana, India (2009).
Topic: "Development of an ANN-QSAR model to predict the activity of a bacteriocin from its structure".
- Done the project in a team of 4 at Banasthali University during M.Sc. Bioinformatics (3rd sem) under the guidance of Asheesh Shanker, Sr. Lecturer (Bioinformatics), Banasthali University, Rajasthan (2008).
Topic: "Evolutionary Relationship of Plants Using Sequenced Chloroplast Genomes".
- 1 month project training at IBI BIOSOLUTION Panchkula, Haryana (2008), India.
Topic: "In-silico DRUG DESIGNING for Diabetes Mellitus".
- Attended the International conference on Molecular Biology and Biotechnology (ICMBB-2008) organized by Banasthali University, Rajasthan, India.
- Participated in International Computer Fair and Seminar (COFAS) held at Lucknow (2003), Uttar Pradesh, India.

REFRESHER COURSES AND ORIENTATION COURSES

S.No.	Programme	Duration	Organized by
1.	Orientation Course	four weeks	UGC- Academic Staff College, H.P. University, Shimla (H.P.) from 02.06.14 - 28.06.14
2.	Refresher Course	three weeks	UGC- HRDC Jai Narayan VyasUniversity, Jodhpur from 03.02.17 - 22.02.17.
3.	Workshop on Open Source Alternatives in Engineering Studies	6 days	School of Engineering, GC Goenka University from 6 th to 11 th July 2015

CONTRIBUTION TO DEPARTMENTAL ACTIVITIES

- Tour Incharge Educational tour of (MSc. Pre and Final) students to Dhanchauli from 5 Feb to 9 Feb 2014.
- Coordinator of Talent Hunt Contest held on 27/Sep/2013 in CBINF.
- Member of Admission Committee during 2014-15, 2015-16, 2016-17, 2017-18 admissions.
- Member of Organizing Committee of National Workshop held from 13 to 14th Dec 2013.
- Organizing secretary of National Workshop held on 29th March 2014.
- Member of inspection committee for Laxmi College of Education, Sidhrawali Gurgaon.
- Member of inspection committee for Rao Mool Chand College of Education Mohindergarh.
- Tour Incharge Educational tour of (MSc. Pre and Final) students to Dhanchauli from 1 Oct 2015 to 5 OCT 2015
- Member of Selection Committee for Research Personnel in DBT-BIF (2014-2015)
- Member of Departmental purchase committee since 2014.
- Judge for Declamation Competition in Zoology Department held on 5/10/2015
- IQAC officer of Department since 2015 and onwards.
- Member of Departmental purchase committee (2015-2016)
- Time Table incharge since 2015.
- Member of PG board of studies in Bioinformatics since 2015.
- Tour Incharge of Educational tour of (MSc. Pre and Final) students to Manali from 13 Oct 2016 to 18 OCT 2016.
- Co-chair Poster Making Competition in Centre for Biotechnology held on 14/09/2017
- Member of Organizing Committee of National Conference cum Workshop held from 7 to 8th Nov 2016
- Member of PG board of studies in Bioinformatics (2016-2017)
- Member of Faculty of Life Sciences (2016-2017)
- Member of Alumni Association (2016-2017)
- Participated in All India Survey on Higher Education (17/March/2017)
- Judge for Poster making Competition in Environment Sustainability Management Cell , MDU held on 06/02/2018
- Event organizer in Bioinfo fest-2018 held on 15th to 17th March, 2018 in CBINF, MDU.
- Member of organizing committee for National conference on Recent Advancements in Bioinformatics held during Bioinfo fest 2018.

POSTER PRESENTATIONS

S. No	Title of the Poster presented	Title of the Conference / Seminar etc and organiser	Dates of the event	Whether international / national / state / regional / university or college level
1	Development of an ANN-QSAR model to predict the activity of a bacteriocin from its structure	54 th Annual Conference of AMI-2013 organized by AMI, NIFTEM and M.D.U, Rohtak	November 17-20, 2013	(International)

2	Prediction of potential vaccine candidates of Clostridium botulinum strain Hall A using in silico Reverse Vaccinology approach	National Conference cum Workshop on Molecular Modeling and Drug Designing organized by Centre for Bioinformatics, M.D. University, Rohtak.	20th-21st March 2015	National
3	Reverse Vaccinology to discover promising vaccine candidates by employing subtractive <i>in silico</i> approach on the proteome of Ebola virus	2 day National Conference on Biotechnology CDLU, Sirsa	(Feb-11,12-2016)	National THIRD POSITION
4	Development of SVM based classifiers to identify antimicrobial peptides	National Conference on Big data analytics cum Workshop on CADD, CBINF, MDU	7 to 8 th Nov 2016	National FIRST POSITION
5	Applications of Bioinformatics in Forensics	National Seminar on Current Scenario in Forensic Investigative Techniques, Dept. of Genetics , MDU	7/Sep/2017	National
6	Development of a SVM based classifier for Identification of Antigenic Proteins.	National Conference on Emerging Trends in Biochemistry	15-16/Sep/2017	National
7	Biodiversity informatics: Digitization of Network of diverse life forms.	International symposium on Biodiversity and Biobanking (BIODIVERSE2018) organized by IIT Guwahati	27-29/1/2018	International
8	RV4molds: A reverse vaccinology pipeline to screen potential vaccine candidates in molds	International conference on sustainable agriculture, energy environment and technology., Environment Science, MDU.	24-25/2/2018	International
9	An integrated <i>Chyikungunya Virus</i> Database to facilitate Therapeutic Analysis: CHKVBD	Global Congresson Biotechnology, Nanotechnology, Energy and Environment [GCBNE-2018]	25-26/4/2018	National FIRST POSITION

Personal Details:

Date of birth: Jan 28th, 1987

Gender: Female

Status: Married

Nationality: Indian

Mehak Dangi Hooda
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