Parul Sharma

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EDUCATION

INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY, DELHI
Mtech In Computational Biology
Cum. GPA: 8.0

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, SEC-62, NOIDA
Btech In Biotechnology
Cum. GPA: 7.8 (81%)

QUEEN MARY'S SCHOOL , DELHI
CBSE (%)| X: 86.6 |XII: 88.4

EXPERIENCE

IIIT-DELHI | RESEARCH ASSISTANT
Advisor: Dr. Subhadip Raychaudhuri | Aug'17 – present.
Post mitochondrial apoptotic pathway study using Monte Carlo Modelling

CSIR-IGIB, DELHI | MASTER'S THESIS STUDENT
Advisor: Dr. Vinod Scaria | May'16 – present.
Data Analysis using Exome sequencing data

CENTRE FOR GENETIC MANIPULATION OF CROP PLANTS, DELHI | INTERN
Advisor: Dr. Yaspal Singh Sodhi | Jun'14 –Aug'14.
Analysis of different Brassica species for Erucic acid and Glucosinolate contents by Gas chromatography (GC), Near infra-red spectroscopy (NIRS) and High performance liquid chromatography (HPLC).

RAJIV GANDHI CANCER HOSPITAL AND RESEARCH CENTER, DELHI | INTERN
Dec'13 –Jan'14
Pathological testing in Biochemistry, Microbiology, and Hematology deparment.

SKILLS

Languages:
Python| R| Matlab | Shell Scripting | C | Html | CSS
Worked on:
R-studio | Matlab | Linux | GATK | Annovar | VCFtools | SAMtools | Mutalyzer | Github
Interests:
Bioinformatics | Genomics | Personalized Medicine

PUBLICATIONS

- "Landscape of warfarin and clopidogrel pharmacogenetic variants in Qatari population from whole exome datasets", Pharmacogenomics. 2016.
- "Escherichia coli biofilm: development and therapeutic strategies", Journal of Applied Microbiology. 2016 .
- "Microbial removal of arsenic: Mechanisms and Applications", Asian Journal of Multidisciplinary Studies, Volume 2, Issue 12, 2014.

PROJECTS

- Clinical Genomics and Personalized Medicine initiatives for Arabian Countries. Jan'17-Dec'17.
- Naiive Bayes Classifier for gene expression data. March'17-April17.
- An online tool for reporting of ACMG approved incidental findings in sequencing data. Aug'16-Jan'17.
- Protein simulation using structure modelling tool- SMOG server. Oct'16-Nov'16
- Simulating Newtonian equations for multi-particle system in R. Aug'16-Sep '16.
- BAX activation in pre-mitochondrial apoptosis pathway using Monte Carlo simulations. March'16-July'16.
- Data analysis for whole-exome sequencing data to detect significant SNPs and CNVs that can be associated with the underlying genetic disease. Jan'16-May'16.
- To study the effect of Bacteriocin-like-inhibitory substances on bacterial biofilms. Aug'14-May'15.
- Role of Prebiotics, Probiotics, Synbiotics and gut microbiota in obesity. Aug'13 – Dec'13.
- Bioremediation of inorganic pollutants by microorganisms. Jan'13 – May'13.

ACCOMPLISHMENTS

- Poster presentation at Research Showcase'2017 IIIT-Delhi. Poster title: Pharmacogenetic Variant Analysis In Arab Populations From Exome Data.
- Poster presentation at the national conference on "Recent Advances in Biological Sciences" organized by SYSCON (Society of young scientists) AIIMS (2014). Poster title: Antimicrobial peptides as potential therapeutics against bacteria.
- Certified for "Rio+20 United Nations Conference on Sustainable Development India Program" Nov'13.
- Coursera course completion certificate for "Virology" from U. COLUMBIA Nov'13.
- EdX course completion certificate for "Introduction to Biology" from MIT Dec'13.
- TA for the following courses:
  Probability and Statistics | Intro to Math Bio | Critical Thinking.
- Attended over 10+ Institute seminars on NGS, Health Informatics, Proteomics, Structural Biology.