

Parul Sharma

Research: Computational Biology | Genomics | Metagenomics | Plant pathogens

P: parul-sharma.github.io

E: parulsharma@vt.edu

Skype: parul141993

PROFESSIONAL TIMELINE

Virginia Tech (2018 -Present)

Degree: Doctor of Philosophy

Major: Bioinformatics

Advisor: Dr. Boris Vinatzer

IIIT Delhi (2015 -2017)

Degree: Master of Technology

Major: Computational Biology

Advisor: Dr. Vinod Scaria

CSIR-IGIB Delhi (2016 -2018)

Position: Master's Thesis Fellowship

Advisor: Dr. Vinod Scaria

JIIT (2011 -2015)

Degree: Bachelor of Technology

Major: Biotechnology

Centre for Genetic Manipulation of Crop Plants, Delhi (2014)

Position: Intern

Advisor: Dr. Yaspal Singh Sodhi

Rajiv Gandhi Cancer Hospital and Research Centre, Delhi (2013)

Position: Intern

SKILLS

Languages: Shell Scripting | Python | R | Matlab | C | C++ | Html | Bootstrap CSS

Tools used: R-studio | Matlab | Linux | Eclipse | PyCharm | Jupyter Notebook | Github

PUBLICATIONS

DALIA- a comprehensive resource of Disease Alleles in Arab population, 2020, *Submitted for review*.

Mechan Llontop ME, **Sharma P**, Aguilera Flores M, Yang S, Pollock J, Tian L, Huang C, Rideout S, Heath LS, Li S, Vinatzer B. Strain-level identification of bacterial tomato pathogens directly from metagenomic sequences. *Phytopathology*. 2019 Dec 12(ja).

Genetic landscape of rare autoimmune disease variants in Qatar and Middle Eastern populations through the integration of whole-genome and exome datasets, 2019, *Submitted for review*.

Sivadas A, **Sharma P**, Scaria V. Landscape of warfarin and clopidogrel pharmacogenetic variants in Qatari population from whole exome datasets. *Pharmacogenomics*. 2016 Nov;17(17):1891-901.

Sharma G, Sharma S, **Sharma P**, Chandola D, Dang S, Gupta S, Gabrani R. Escherichia coli biofilm: development and therapeutic strategies. *Journal of applied microbiology*. 2016 Aug;121(2):309-19.

Dangayach S, **Sharma P**, Singhai P, Gupta N. Microbial removal of arsenic: Mechanisms and applications. *Asian Journal of Multidisciplinary Studies*. 2014 Dec;2(12):160.

ACCOMPLISHMENTS

Best Poster Award at the Annual TPS Graduate student Poster Show and Competition (2019).

Poster presentation at Research Showcase (2017) IIIT-Delhi.

Poster presentation at the national conference on "Recent Advances in Biological Sciences" organized by SYSCON AIIMS (2014).

TA for the following courses: Probability and Statistics | Intro to Math Bio | Critical Thinking.

Full tuition scholarship awarded by the Dept. of Biotechnology, India (DBT) for Master's degree.

Scholarship from MHRD, Government of India, for qualifying GATE and securing admission in IIITD.