Divya Dubey

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# Activities

## Research Assistant | 2019-03- present

*Project: Sequencing Cassava Viruses from Kenya*

* Completed lab training and received a certificate
* Procedural skills:
	+ Gel electrophoresis, Isolating and analyzing RNA, UV spectroscopy
	+ Data processing, statistical analysis
	+ Bioinformatics programs: AliView, Sequence Demarcation Tool, Recombination Detection Program, Benchling, R plots, SplitsTree
	+ High performance computing: RNA-seq workshops, R studio workshops, Amarel

## rutgers undergraduate research journal| 2019-09 - present

*Position: Junior founder, Outreach Coordinator*

* Gained skills to peer-review papers through a 1.5 credit class taken in fall of 2019
* Collaborated to finalize submission guidelines and logistics of this journal which is being launched in spring of 2020
* Developed a brand-new curriculum with a team of 13 junior founder for the fall semester 2020
* Manage correspondence with the team of graduate students and faculty reviewers for the journal

## Aresty Summer science program| Summer 2019

*Project: Sequencing Cassava Viruses from Kenya*

* Selected for an intensive program of undergraduate research exclusively for rising sophomores
* Earned a stipend of 3000$ and free housing on Rutgers campus for 10 weeks of work as a research assistant
* Contributed a total of 400 hours of work in the lab
* Presented a poster at the end of the 10 weeks summarizing my progress
* Learned general lab procedures such as quantitative PCR and RNA quantitation
* Learned the history of experimental evolution
* Evolved a lineage of RNA bacteriophage phi 6 by inoculating it onto its host *Pseudomonas* bacteria daily
* Prepared RNA genomes for sequence analysis and analyzed Sanger sequence results

## Member | 2014-2016

*Waksman Club*

* Experience with PCR, creating recombinant DNA and various pipetting techniques
* Sequenced, analyzed and banked segments of Duckweed DNA through the FinchTV program
* Conducted research on the structure and functions of important enzymes in Duckweed

# Education

## Rutgers University| Graduation year: 2022

## West Windsor Plainsboro High School South | 2014-09 – 2018-05

# Datasets | 2020 – 07 – 28

* Recombination detection program (RDP4) results for ACMV and ACMBFV DNA-B
	+ DOI: [10.5281/ZENODO.3975834](https://doi.org/10.5281/ZENODO.3975834)
* Recombination detection program (RDP4) results for EACMV-like DNA-B sequences (7 "species")
	+ DOI: [10.5281/ZENODO.3965029](https://doi.org/10.5281/ZENODO.3965029)
* Multiple alignment of ACMV and ACMBFV DNA-B sequences
	+ DOI: [10.5281/ZENODO.3964979](https://doi.org/10.5281/ZENODO.3964979)
* Multiple alignment of DNA-B sequences from CMMGV, EACMCV, EACMV, EACMKV, EACMMV, EACMZV, SACMV (7 "species")
	+ DOI: [10.5281/ZENODO.3965023](https://doi.org/10.5281/ZENODO.3965023)
* Multiple alignment of DNA-B sequences from EACMV, EACMKV, EACMMV, EACMZV, SACMV (5 "species")
	+ DOI: [10.5281/ZENODO.3965025](https://doi.org/10.5281/ZENODO.3965025)
* Multiple alignment of ICMV and SLCMV DNA-B sequences
	+ DOI: [10.5281/ZENODO.3964977](https://doi.org/10.5281/ZENODO.3964977)

# Posters

* Recombination drives species-level diversity of cassava mosaic begomoviruses| 3rd author|2020-02
	+ Presented at the Microbiology symposium at Rutgers University
* Recombination drives species-level diversity of cassava mosaic begomoviruses| 3rd author|2020-01
	+ Presented at the New York Area Population Genetics conference at New York University
* Recombination drives species-level diversity of cassava mosaic begomoviruses| 3rd author|2019-11
	+ Presented at Geminivirus meeting at North Carolina State University
* Widespread Recombination in Cassava Begomovirus DNA B Sequences|1st author|2019-08
	+ Presented at Aresty Summer Science symposium at Rutgers University

# Certificates and Honors

* Dean’s List Fall 2018, Fall 2019, Spring 2020
* Appreciation Certificate from the Indian Business Association for community service| 2017-08
* Semifinal contestant in the Meri Aawaz Suno singing competition hosted by Jhoom Events| 2018-05
* Appreciation for Volunteer Services at the Special Olympics, New Jersey Division| 2017-04
* Appreciation for Volunteer Services for the Indian Health Camp of New Jersey | 2017-08

# Volunteer Work

## School of environmental biologial sciences Ambassador | 2020-06 - Present

*Student Ambassador in Outreach*

* Organized a virtual no talent, talent show event for the Rutgers SEBS students
* Panelist in the International Student Admissions information session
* Panelist in the SEBS Open House for prospective students

## A2E with the Youth Empowerment Club at Rutgers | 2018

*Team Leader and Tutor*

* Lead the 3rd grade team of tutors at the Roosevelt Elementary School for the 1st semester of college
* Personally tutored 2-3 third grade students in math, science, history, reading and writing
* Coordinated weekly activities for the children after their tutoring sessions

## Rutgers Scarlet day of service | 2019-09

*Beach cleanup at Gateway National Recreation Area – Sandy Hook*

* Dedicated an entire day to cleaning up the Sandy Hook beach

# Hard Skills

* MS office suite
* Java programming
	+ Completed CS111
* Bilingual (Hindi and English) and proficient in French