Adnan Raza

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GitHub: Woosflex , Website: woosflex.github.io

EDUCATION

Sharda University, Greater Noida, India
  B.Sc. (Hons.) Microbiology, Graduated   2020-2023
Awards: *First division with honours*

R.S.B.V. Gandhi Nagar, Delhi, India
  Senior School (Grade 12th), passed with 73.4%   2019

St. Andrews Scots School, Delhi, India
  High School (Grade 10th), excelled with 9.4/10 CGPA   2017

RESEARCH EXPERIENCE

Sharda University, Department of Life Sciences
Undergraduate Research Thesis with Prof. Vinod Joshi   Nov. 2022 – April. 2023
Comparison of Anti-HCV titre and p53 protein among HCV patients
  - Extracted whole RNA from blood samples of HCV positive patients.
  - Quantified HCV load and determined genotype of virus with RT-PCR.
  - Identified impact of infection on p53 expression using PCR.
  - Examined the mutation in p53 mRNA by differentiating using Gel Electrophoresis.

Sharda University, Department of Life Sciences
Summer Project with Dr. Annette Angel
Socio-Economic and COVID-19 transmission intervention: Impact of lockdown measures in India

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PROJECTS

AutophiGen: Automate Phylogenetic Analysis
  - Developed bioinformatics tool made in Python to automate phylogenetic analysis workflow as a personal project.
  - Implemented libraries such as BioPython, ete3 and APIs of EMBL to perform BLAST, Multi-Sequence Alignment using MUSCLE and create phylogenetic tree using Neighbour-Joining Algorithm.
  - Currently working on deploying the tool as a web-app for easy access and GUI-interface.
  - Link to the project's GitHub repo: AutophiGen

SKILLS

Technical Skills

- Python	- C	- LaTeX	- R
- Bash, zsh			

Laboratory Skills

- PCR	- Gel Electrophoresis	- ELISA	- Culturing Bacteria

- GWAS   -   Shotgun Sequencing

LEADERSHIP EXPERIENCE

Sharda University, Department of Life Sciences
Organized preparation of Scientific Models during Accreditation Council's visit
- Streamlined the production of models by students.
- Oversaw financial, management and administrative roles

Sharda University, Department of Life Sciences
Elected for the role of Class Representative for consecutive 6 semesters
- Distribution of study materials and maintenance of cloud storage of class materials
- Designed workflow for easy access to information, form submissions and discussions.

PUBLICATIONS

Submitted:
   Khandelwal, K., **Raza, A.**, Pandit, S., Nidhi, Alghamdi, S., Alqurashi, S.F., Sharaf, S.E.S., Albalawi, T.S., Malatani, D.A.S., Rustagi, S., Khan, Z.S., Malik, S., and KanuPriya. **Role of Metallic Nanoparticles as a potential disease control agent in Agriculture,** *Nano-Structures & Nano-Objects, Elsiever Publications*

COURSES & WORKSHOPS

CS50x: Introduction to Computer Science by **Harvard University**	Ongoing
International Workshop on Genome Informatics by **DeCode Life**	6 Jan. – 4 Feb., 2024
CS50p: Introduction to Programming with Python by **Harvard University**	Oct. 2023
Infection and Immunity by **Amity University Online**	July, 2023
MATLAB OnRamp by **MathWorks Training Services**	Oct., 2022
Introduction to Data Analysis using Excel by **Rice University**	Dec., 2021

PROFESSIONAL AFFILIATIONS

Member of **Global Initiative Academic Network (GIAN) IIT Kharagpur, India**	2022 - Present

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CONFERENCES AND WEBINARS

Attended:

Droplet Digital PCR World 2023 by Bio-Rad	June 2023
Interdisciplinary Research on Cancer Biology by UPES University	Sep. 2022
Understanding COVID-19 to Prepare for the Next Pandemic by Nature Conferences	
E-symposium on Cancer Epigenetics by Jaipur National University	Sep. 2021

REFEREES

Dr. Soumya Pandit

Assistant Professor, Department of Life Sciences
Sharda School of Basic Sciences and Research
Sharda University, India
Email:
PhD, IIT Kharagpur; Post Doc. Fellow, BGU Negev, Israel

Dr. Subhashree Ray

Assistant Professor, Department of Life Sciences
Sharda School of Basic Sciences and Research
Sharda University, India
Email: subhasree.ray@sharda.ac.in
PhD, CSIR-IGIB; Post Doc. ,Ehwa Womens University, University of Seoul, Yeungnam University