

CURRICULUMVITAE

PERSONAL DETAILS

Name: MOHD FAIZ SAIFI

Father`s name: Mohd Rahees Ahmed

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OBJECTIVE:

Seeking a position to utilize my knowledge, skills, and abilities in the Research lab that offers a competitive environment, a true profession to put in the acquired knowledge and gain exposure to upcoming technologies while being resourceful, innovative and flexible.

EDUCATION

QUALIFICATION:

Qualification	School / College	University/ Board	Period/Year of Passing	Subjects	Status
Master of Science (M.Sc.) Applied microbiology	Department of Bioscience	Jamia Millia Islamia (central university) New Delhi	2019-2021	Microbiology	9.0 First Division with distinction
Bachelor of Sciences (B.Sc.) Zoology Honors	Hindu College, Delhi	University of Delhi, India	2016 –2019	Zoology (major)	7.311 First Division
Grade XII	B.K senior Secondary school	Central Board of Secondary Education (CBSE), Delhi, India	2016	Biology, Physics and Chemistry	90.1 First Division with distinction
Grade X	B.K senior Secondary school	Central Board of Secondary Education (CBSE), Delhi, India	2014	English, Science, Social Sciences, Mathematics, Hindi	9.8 / 10.0 First Division with distinction

AWARDS AND SCHOLARSHIPS

- Secured appreciation certificate in school for highest cumulative in Grade X.
- National scholarship for minority students (2017-2020)
- Honored with India's best HD of 2022 for providing best services to society Haqdarshak Pvt. Ltd.
- Secured Certificate of appreciation in a poster presentation at 7th International Conference on Translational Research 2023, All India Institute of Medical Science, New Delhi.
- **Third Prize** in a poster presentation entitled "**Mutational Landscape of Tumor Suppressor genes (TP53 and PTEN) in the Tissue and Liquid Biopsy samples of Cancer Patients with Translation Utility as Early Detection Marker**" at 7th International Conference on Translational Research 2023, All India Institute of Medical Science, New Delhi, India.

KNOWN SCIENTIFIC TECHNIQUES:

- Isolation of genomic DNA
- Isolation of plasmid DNA
- Primer designing
- Primary cell culture
- Dissection
- RT-PCR, qPCR
- RNA seq
- Immunocytochemistry (IHC), Immunohistochemistry (ICC)
- Flowcytometry
- CRISPR
- Dendritic cell isolation from the bone marrow,
- RNA extraction
- Gel electrophoresis, SDS-PAGE, Native PAGE, UREA page
- PCR, Gradient PCR
- Molecular cloning

SOFT SKILLS

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- Microsoft Access
- Microsoft Outlook

RESEARCH ARTICLE, ABSTRACT AND BOOK CHAPTER

1. Book chapter on title "**Mode of Transmission of Virus Causing Pandemic**" 2021 Publisher: Apple Academic Press, CRC, Taylor & Francis Group. (Saifi, Mohd Faiz, Colin E. Evans, and Neha Gupta. "Modes of Transmission of Coronavirus." In *Pandemic Detection and Analysis through Smart Computing Technologies*, pp. 1-28. Apple Academic Press, 2022.) (<https://www.taylorfrancis.com/chapters/edit/10.1201/9781003281610-1/modes-transmission-coronavirus-mohd-faiz-saifi-colin-evans-neha-gupta>)

2. Review article on “**Housekeeping genes are not just housekeeping genes.**” 2023, Publisher: Nature Research (a subsidiary of Springer Nature) (United Kingdom). (In Press)
3. Book chapter on the title “**ECG signals and their implications in significant heart pathologies**”. (Sheeba Kalam, Mohd Faiz Saifi, and Neha Gupta) Iterative International Publishers, 2023. (<https://www.doi.org/10.58532/V3BJBT4P1CH2>)
4. Abstract presented on “**The evolution of ELOV2 gene promoter methylation as an age estimation biomarker in Indian population by methylation-specific PCR assays**” at 7th International Conference on Translational Research 2023, All India Institute of Medical Science, New Delhi.
5. Abstract on title “**Mutational Landscape of Tumor Suppressor genes (TP53 and PTEN) in the Tissue and Liquid Biopsy samples of Cancer Patients with Translation Utility as Early Detection Marker**” at 7th International Conference on Translational Research 2023.
6. Abstract presented on “**Age estimation based on DNA methylation using real time methylation specific PCR based assay in India population**” organized by Department of Anthropology, at National Seminar, Exploring New Frontiers in Forensic Science and Anthropology.
7. Review article on “**The Regulation of Cancer-Associated Thrombosis by Podoplanin**”. Neha Gupta ^{1,*}, Mohd Faiz Saifi* ², Yohei Hisada ^{3,4,**}, Colin E. Evans ^{5,6,7,8,**} publisher “thrombosis research,2023. (<https://doi.org/10.1016/j.tru.2024.100174>)

INTERNSHIPS AND EXPERIENCE

- Internship training from 14.06.2018 - 29.07.2018 on “**Drosophila model system for research**” at Daulat Ram College (University of Delhi). In collaboration with Sansriti Foundation sponsored by Star College project, DBT, Govt. of India.
- Internship training from 02.07.2018 - 06.07.2018 on “**Zebra fishes as a tool for experimental biology**” at Daulat Ram college (University of Delhi). In collaboration with Sansriti Foundation sponsored by Star college project, DBT, Govt. of India.
- Part-time working at Chegg India as a biology Subject Matter Expert.
- Training for Six months from 01.01.2021 - 01.06.2021 as a Research trainee at the Virology unit, Department of Microbiology, Vallabhbhai Patel Chest Institute (University of Delhi), New Delhi 110007 From 01.01.2021 to 01.06.2021 (six months).
- Worked as a Research Intern at VPCI in a project entitled “**Aptamer functionalized liposomes: A way towards immune targeted RNA based vaccine against influenza virus**”.
- Worked as a community leader in Haqdarshak Pvt. Company ltd. For four months.
- Worked as an Operation analyst at Edumarz Pvt. Ltd.
- Member of a **SPECTRUM Journal Club** and associated with JK Scientists.
- Worked as Project Intern in a project entitled “**Development of a Recombinant Vaccine against the Hepatitis E Virus and immunological characterization of Hepatitis E Cohort and potential vaccine recipient cohort**” for two years at Department of Gastroenterology and HNU, AIIMS New Delhi.
- Currently Working as **JRF** in a project entitled “**Detection and Molecular Characterization of Diarrheagenic Escherichia coli as a cause of morbidity and mortality in children under 5 years of age presenting with acute diarrhea**” at Postgraduate Institute of Child Health, Sector - 30, Noida.

DISSERTATION

Research work submitted in this thesis entitled “**Validation of housekeeping genes in bone marrow-derived dendritic cells during cell differentiation**” been carried out by me under the supervision of **Prof. Madhu Khanna** (Head of Department), Virology Unit, Department of Microbiology, Vallabhbhai Patel Chest Institute (University of Delhi), New Delhi 110007.

For high-throughput gene expression analysis, real-time PCR is quickly becoming the technique of choice. However, precise normalization of gene expression against a control gene is essential to obtain valid data from real-time PCR analysis. The results reveal that the housekeeping genes are expressed differently in the samples studied. GAPDH and HPRT had the most steady expression in distinct tissues or cell types at different cell differentiation stages, whereas 18s RNA had the least stable expression. Beta-actin, one of the most extensively used housekeeping genes, has unacceptably high expression variability, which limits its utility as an internal control.

CERTIFICATES COURSES

1. **COVID-19: What You Need to Know (CME Eligible) 21/June/2020 to 30/June/2020 (one week) (Osmosis)**
2. **Outbreaks and Epidemics 18/May/2020 to 18/June/2020 (One month) (Johns Hopkins University)**
3. **COVID-19 Contact tracing 17/July/2020 to 25/July/2020 (one week) (Johns Hopkins University)**
4. **Mind Control: Managing Your Mental Health during COVID-19 14/June/2020 to 21/June/2020 (University of Toronto)**

LEADERSHIP ROLES AND RESPONSIBILITIES

- **Earthlings, the Wildlife Society of Hindu College** – Executive member of Earthlings Society, which is one of the ecological societies of Hindu College. The society has active collaboration with bigger organizations such as WWF engaged in fundraising and awareness campaigns.
- **Mecca 2016** - Member of the organizing committee of Mecca 2016 - the annual cultural fest of Hindu College, University of Delhi.
- **SPIC MACAY Society for the Promotion of Indian Classical Music and Culture amongst Youth** – Head executive of SPIC MACAY Society of Hindu College & coordinator.
- **7th International Conference on Translational Research** -Volunteer at the conference, conducted by AIIMS New Delhi, on 15 to 18th October 2023 at AIIMS, New Delhi.

WORKSHOPS AND QUIZZES

1. Participated in a workshop conducted by the Council of Scientific and Industrial Research (NISIR) on “*Skill training program in science communication, science journalism and scientific writing.*” · Attended a workshop on “*Let’s fight mosquitoes might* ” conducted by the Department of Zoology, Hindu College, and won 4th place in a quiz competition.
2. Participated in a workshop conducted by the Department of Zoology, Hindu College, during VERVE 2017, on Darwin's Day.
3. Attended workshop on “**AIR POLLUTION** ” conducted by Earthling Wildlife Society of Hindu College.

4. Attended Five Days' National Online Faculty Development Program on "**Paradigms of Research: From Synopsis to Thesis**" organized by IQAC and Knowledge Resource Center, Adarsha Science, J.B. Arts and Birla Commerce College, Dhamangaon Rly, from 05th to 09th October, 2020.
5. Participated in a webinar on "**Challenges and Opportunities in Polar Research**" organized by the Department of Environmental Science, Jamia Millia Islamia (Central University), New Delhi - 110025, INDIA.
6. Attended the webinar on "Biology and Medicine: Recent Advances", held on 10-10-2020, conducted by the Department of Zoology, Aligarh Muslim University, Aligarh-202002.
7. Participated in open days for college, organized by CSIR-Institute of genomics and Integrated Biology, which conducted many workshops on different topics such as Genetics, Molecular biology, and microbiology.
8. Participated in **IDEATHON 2021** from 07.02.2021 to 21.02.2021, the theme of our project was "**Removing "Fright "by reaching "Heights' "**. Our idea focuses on a digital Mobile application for the Children suffering from a chromosomal anomaly i.e., "Down Syndrome". That will not only help in enhancing their cognitive skills.
9. Participated In **Manav Scientific Reading and Comprehension Self-Assessment Module** (Subject Category - Microbiology) from Sept-Oct 2021.
10. Participated in Workshop-cum-training Programme on "**Proposal Writing and Ethical Issues in Biomedical Research**". Under Aegis of Multidisciplinary Research Unit (MRU), VPCI, Delhi. Participated in a Workshop on **Biostatistics** on 25 Feb. 2021. Under Aegis of Multidisciplinary Research Unit (MRU), VPCI, Delhi.
11. Participated in a Workshop entitled "**CRISPR Based Technologies for Cell, Virus, and Animal Genome Editing**". Conducted on 15th October 2023 at AIIMS, New Delhi.

INTEREST

- Basketball
- Reading novels
- Reading research paper

REFEREE DETAILS

Reference 1
Dr. Neha Gupta, INSA, NASI awardee.
Inspire faculty (faculty of Natural science),
Address: 306B, Dept. of Biosciences, Jamia Millia Islamia University, New Delhi 110025 India.
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Reference 2
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Associate Professor,

Department of Zoology, Hindu college, University of Delhi, Delhi, India.

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