

Mrs. Nasera Firdausi

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Objective

To achieve job satisfaction by performing my duties and responsibilities assigned to me in an excellent way in the field of biological sciences.

**Experience
summary**

Project Senior Research Fellow (SRF) - July 2017 to December 2019

2.5 years of working experience as a project SRF under the supervision of **Dr. Monika Sachdev**, Principal Scientist, Endocrinology Division, CSIR-Central Drug Research Institute, Lucknow, Uttar Pradesh.

Project Title

“Study the effect of Mesenchymal Stem Cells on Ovarian Function and Fecundity in Goats.”

Technical Skills:

- Animal Handling (Rat and Mouse)
- Isolation of Bone Marrow from Rat, Mouse, and Goat
- Cell Culture and related techniques (ALP Staining, Karyotyping, MTT Assay)
- Magnetic Assisted Cell Sorting (MACS)
- Fluorescence Activated Cell Sorting (FACS)
- Extraction of DNA, RNA, and Protein
- SDS Page, Western Blotting, Agarose Gel Electrophoresis, and ELISA
- Immunofluorescence & Histological Analysis
- Conventional PCR, RT PCR, and Real Time PCR

Project Work

Master Thesis: From 6th January' 2016 to 5th July' 2016 (6 Months)

Project Title

“Diagnosis of Human Papillomavirus Infection in Cervical PAP Smear Samples.”

Supervisor

Dr. Monika Sachdev, Principal Scientist, Division of Endocrinology, CSIR-CDRI, Lucknow, U.P.

Technical Skills:

- Samples Collection of Cancerous Cervix and CIN Stages (Cervical PAP Smear, Urine, Blood, and Tissue)
- DNA Extraction from Liquid-Based Cytology (LBC) Samples
- Conventional PCR and Real-Time PCR
- Immunofluorescence Analysis
- Nanodrop Spectrophotometer, Gel Doc and Fluorescence Microscope

Bachelor Thesis: From January' 2013 to March' 2013 (3 Months)

Project Title

“Molecular Docking Study of Flavonoids as Potent Chemotherapeutic Agents of Dibenzo-al-Pyrene Induced Mammary Cancer: Inhibition of Cytochrome P450 2E1.”

Supervisor

Dr. Mohd Kalim Ahmad Khan, Assistant Professor, Dept. of Bioengineering, Integral University, Lucknow, U.P.

**Educational
Qualifications**

August' 2014- December' 2016	M.Tech in Biotechnology, Institute of Engineering and Technology, AKTU, Lucknow, Uttar Pradesh. Year of passing: 2016 Marks obtained: 1532 out of 2000 (76.60%) Division: First Division with Honours
July' 2009 – July' 2013	B. Tech in Biotechnology, Integral University, Lucknow, Uttar Pradesh. Year of passing: 2013 Marks obtained: 4355 out of 5550 (78.47%) Division: First Division with Honours
2005-2007	Intermediate (BSEB Board): R.M.R. Seminary +2, Patna, Bihar Year of passing: 2007 Marks obtained: 502 out of 900 (55.77%) Division: Second Division
2004-2005	High School (CBSE Board): Woodlands High School, Patna, Bihar Year of passing: 2005 Marks obtained: 350 out of 500 (70%) Division: First Division

IT Skills & Workshop

- MS Word, PowerPoint, Excel, Photoshop, ImageJ, Bioinformatics Tool like BLAST, FASTA, Clustal Omega.
- Attended workshop on Flow Cytometry in CSIR-CDRI, Lucknow

Poster Presentation & Conferences

- Presented poster on “*Profertility Natural Extracts for Males and Females in Infertile Rat Model*”.
- Attended National Symposium on “New Paradigm in Veterinary Medical Research and Management of Laboratory and Farm Animals: Scientific, Ethical and Welfare Perspectives & Annual Conventional of Laboratory Animal Science Association of India (LASAI)” from 28-29 April, 2018 held at UP Veterinary Council, Lucknow.
- Attended National Level Conference on “Nanoscience and Biotechnology-Present & Future Prospective” organized jointly by Department of Nano-biotechnology, Life Science Foundation India, Karnataka and Department of Bioengineering, Faculty of Engineering, Integral University, Lucknow on 20th April 2013.

Book Chapter & Abstracts

- Published Book Chapter on “*Gene Transfer in Bacteria*”.
- **N Firdausi**, BA Hakim, AK Agrawal, SK Agnihotri, D Singh, V Tyagi, R Singh, SK Ojha, T Narender & M Sachdev. *Profertility Natural Extracts for Males and Females in Infertile Rat Model*.
- **Akanksha Vyas**, Saurabh K Agnihotri, Ankita Jain, Bilal A Hakim, **Nasera Firdausi**, Deependra Singh, Vaishali Tyagi, Rahul Singh, Nidhi Srivastava, Madanlal B Bhatt, Kirti Srivastava, Rekha Sachan and Monika Sachdev. *Cancer Germ Line Antigens (CGAs) can be explored for early diagnosis of Cervical Cancer*.
- **R Singh**, BA Hakim, AK Agrawal, SK Agnihotri, D Singh, **N Firdausi**, V Tyagi, SK Ojha, T Narender & M Sachdev. *Pro-fertility Herbal Medication for Males and Females in Chemo-ablated Rat Model*.
- **A Vyas**, **N Firdausi**, A Jain, S Agnihotri, A Agarwal, B Hakim, D Singh, V Tyagi, MLB.Bhatt, R Sachan, M Sachdev. *Molecular Detection of HPV Infection from Cervico-Vaginal Fluid*.
- **A Jain**, S Agnihotri, AK Agrawal, BA Hakim, A Vyas, **N Firdausi**, V Tyagi, MLB.Bhatt, R Sachan & M Sachdev. *CABYR: An Early Diagnostic and Prognostic Marker for Cervical Cancer*.
- Mohd. Haris Siddiqui, Mohd. Kalim Ahmad Khan, Salman Akhtar, and **Nasera Firdausi**. *Molecular Docking Study of Flavonoids as Potent Chemotherapeutic Agents of Dibenzoal-Pyrene Induced Mammary Cancer: Inhibition of Cytochrome P450 2E1*.

Personal Details

Father's Name	Late Dr. Naseer Ahmad Retired Principal Scientist, CSIR-CIMFR, Dhanbad, Jharkhand
Date of Birth	14 th February 1990
Gender	Female
Nationality	Indian
Marital Status	Married
Languages	English, Hindi, Urdu

References

1. Dr. Mohammad Kalim Ahmad Khan, Associate Professor, Department of Bioengineering, Integral University, Lucknow
Email ID: mkakhan@iul.ac.in Mobile no. 8853265807
2. Dr. Salman Akhtar, Associate Professor, Department of Bioengineering, Integral University, Lucknow
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