

Dr. Faiza Rao

Assistant Professor
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Marital status: Single

I want to develop my career as a scientist. My target is to improve my skills and abilities to find novel strategy and innovative treatment of human diseases, especially reproductive and neurodegenerative diseases.

Education

Highest Qualification
Major
University
Session
Scholarship

PhD
Genetics (human genetics)
University of Science & Technology of China
2012-2016
China Scholarship Council (CSC) Scholarship

Qualification
Major
University
Session

MSc
Zoology
Bahauddin Zakariya University, Multan
2009-2012

Qualification
Major
University

Session

BSc
Zoology, Botany, Chemistry
Government Degree College for Women, Katuchry road, Multan.
2005-2008

Qualification
Major
University

Session

FSc
Pre-Medical
Government Degree College for Women, Katuchry road, Multan.
2002-2005

Work Experience

- Assistant Professor in University of Central Punjab (present job)
- One year experience in The Women University Multan, appointed as Assistant Professor (IPFP contract).
- Four year research experience in University of Science & Technology of China (2012-2016).

Publications

- **Rao F**, Tian H, Li W, Hung H, Sun F. 'Potential role of punicalagin against oxidative stress induced testicular damage'. *Asian J Androl.* 2016; 18, 627-632 (PMID:26763544) (IF: 3.259)
- **Rao F**, Zhai Y, Sun F. 'Punicalagin Mollifies lead acetate induced oxidative imbalance in male reproductive system'. *Int. J. Mol. Sci.* 2016; 17(8):1269. doi:10.3390/ijms17081269. (PMID: 27529221) (IF: 3.687)
- Zhai Y, Yao G, **Rao F**, Wang Y, Song X, Sun F. 'Excessive nerve growth factor impairs bidirectional communication between the oocyte and cumulus cells resulting in reduced oocyte competence'. *Reprod Biol Endocrinol.* 2018; 16(1):28. (PMID: 29580253) (IF: 2.852)

Awards and Research Grants

- Chinese Government **Scholarship awarded** for PhD in Genetics (2012-2016).
- 2012 Pakistan Global Graduate competition for **Alltech's Young Scientist Award**, participation certificate.
- Selected by Higher Education Commission, Pakistan for **Interim Placement of Fresh PhDs** Program as Assistant Professor.
- Received Start up **Research Grant** from Higher Education Commission, Pakistan of PKR490855 /- with project No: 21-1256/SRGP/R&D/HEC/2016

Research and Work Experience

- Worked on “**Inventory of butterflies of Multan District**”, in Supervision of **Dr. Aleem Ahmad Khan** (Professor) in „Institute of Pure & Applied Biology” in Bahauddin Zakariya University, Multan (2010-2012).
- Worked on “**Molecular mechanism of male infertility**” in **Laboratory for Reproductive Biology** in University of Science & Technology of China (2012- January 2014).
- Worked to identify mechanisms of male infertility influencing factors such as age, environment pollutants during Gametogenesis in International Peace Maternity & Child Health Hospital School of Medicine, Shanghai Jiao tong University, Guangyuan Road, Xuhui District, Shanghai, China (2014-2015).
- Worked in “Aberrantly high concentration of NGF inhibits cumulus cells glycolysis in a bidirectional communication dependent manner” in **Laboratory for Reproductive Biology** in University of Science & Technology of China (2014-2015).
- Worked in sequential expression and identifying Long Non-coding RNA in specific stages of mouse spermatogenesis in **Laboratory for Reproductive Biology** and **Laboratory of Transcription Regulation in Science and Brain Aging** in University of Science & Technology of China (2012-2016).

Subjects taught to Postgraduate classes

- Developmental Biology
- Cell Biology
- Animal Behaviour
- Human Physiology
- Reproductive Physiology
- Animal Physiology

Reviewer in Journals & Conferences

- Andrology
- Reproduction
- Annals of Chronic Diseases
- International Journal of Biology
- 2nd International Conference on Public Health and Medical Sciences
- 2nd International Conference on Food Science & Nutrition Engineering

Membership of Scientific Societies and Committee member

- Member of International Society of Genetic Genealogy.
- Member of Pakistan Science Club.
- Member, Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEES).
- Life-Time membership of Global Research & Development Services (GRDS)
- Full Membership of Organization for Women in Science for Developing World.
- Committee member of The 2nd International Conference on Biomedical and Biological Engineering BBE May 26-28,2017 / Guilin, China.

International Advisory Board Member

- The IRES – 195th International Conferences on Medical and Health Science (ICMHS).

Technical Program Committee Member

- The 2nd International Conference on Biomedical and Biological Engineering BBE 2017 (26-28th May 2017 Guilin, China)

Organized, Presented, Attended Conferences, Lectures and Workshop

- 1st Nature Immunology-Cellular & Molecular Immunology Joint Conference: Inflammation, Stress and Immune Homeostasis, June 17-19, 2015 Hefei, China.
- 3rd International Conference on Biotechnology Challenges and Opportunities in Pakistan on February 8-9, 2017 at University of South Asia, Lahore.
- Career Development Workshop for Women in Science, organized by Career Counseling Center, 21-22 February, 2017 at The Women University, Multan.
- Organized Lecture on Polycystic Ovarian Syndrome (PCOs) in The Women University Multan. March 14th 2017.
- 37th Pakistan Congress of Zoology (International), Organized by Government College University, Faisalabad. February 28-March 2, 2017.
- Actively participated in 4th National Hands-on Training Workshop on Bioinformatics, Faisalabad. 5-6 August 2017.

Skills

- **Cell culture** (got training to culture NT2, 293T, NIH3T3, GC1, GC2, DU145, HepG2, MCF-7 cells)
- **Co-culturing** (cumulus-cell-oocytes, oocyctomized cumulus cells and oocytes)
- **Flow cytometry** (analysis of apoptosis, reactive oxygen species ROS, cell cycle)
- **In Vitro Assays** (assays were performed developing a new drug from fruit)
- **Gel Electrophoresis** (trained for macromolecule analysis)

- **SDS-Page** (trained to separate proteins from samples of mixture, prepared in project)
- **Western blot** (trained to detect specific proteins in sample homogenate)
- **Transfection** (siRNA constructs trained for detecting lncRNA in major Lab project for male infertility)
- **Immunostaining** (identifying specific protein involved in infertility project)