

# *Dr. Faiza Rao.*

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## *Education*

<b>Highest Qualification</b>	PhD
<b>Major</b>	Genetics (human genetics)
<b>University</b>	University of Science & Technology of China
<b>Session</b>	2012-2016
<b>Scholarship</b>	China Scholarship Council (CSC) Scholarship
<b>Qualification</b>	MSc
<b>Major</b>	Zoology
<b>University</b>	Bahauddin Zakariya University, Multan
<b>Qualification</b>	BSc
<b>Major</b>	Zoology, Botany, Chemistry
<b>University</b>	Government Degree College for Women, Katuchry road, Multan.
<b>Qualification</b>	FSc
<b>Major</b>	Pre-Medical
<b>University</b>	Government Degree College for Women, Katuchry road, Multan.

## *Work Experience*

- **Post doctorate** Research Fellow at Xiamen University, China (2019-2020).
- **Chairperson** of Zoology department in Punjab Group of Colleges (2018-2019).
- One-year experience in The Women University Multan, appointed as **Assistant Professor** (IPFP contract 2016-2017).
- Four-year **research experience** in University of Science & Technology of China (2012- 2016).

## *International Journal 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: 2.8)

- **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: 4.1)
- 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: 2.5)
- Decidualization process; essential for embryo implantation. (**Paper submitted** in Cell Research, 15 February 2020).
- Reactive oxygen species: A Friend or Foe in endometrial decidualization. (**Paper submitted** in Scientific Reports, 1st March 2020).

### *Awards and Research Grants*

- Post-doctorate **High Talent Category A** fellowship, Xiamen University.
- 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).

### *Reviewer in Journals & Conferences*

- Reproduction
- International Journal of Biology
- International Journal of Environmental Research and Public Health
- Andrology
- Molecules
- Medical Sciences
- Annals of Chronic Diseases
- 2<sup>nd</sup> International Conference on Public Health and Medical Sciences
- 2<sup>nd</sup> International Conference on Food Science & Nutrition Engineering

### *Membership of Scientific Societies and Committee member*

- Member of Organization for Women in Science for the Developing World (OWSD) Pakistan Chapter.
- 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 2<sup>nd</sup> International Conference on Biomedical and Biological Engineering BBE May 26-28,2017 / Guilin, China.

### *International Advisory Board Member*

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

### Technical Program Committee Member

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

### Presented, Organized, Attended Conferences.

### Lectures and Workshop

- 1<sup>st</sup> Nature Immunology-Cellular & Molecular Immunology Joint Conference: Inflammation, Stress and Immune Homeostasis, June 17-19, 2015 Hefei, China.
- 3<sup>rd</sup> 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 14<sup>th</sup> 2017.
- 37<sup>th</sup> Pakistan Congress of Zoology (International), Organized by Government College University, Faisalabad. February 28-March 2, 2017.
- Actively participated in 4<sup>th</sup> National Hands-on Training Workshop on Bioinformatics, Faisalabad. 5-6 August 2017.

### Skills

- **Cell culture** (got training to culture NT2, GC1, GC2, DU145, HESc cells)
- **CoCs and denuded oocyte** collection.
- **Flow cytometry** (analysis of apoptosis, reactive oxygen species ROS)
- **Gel Electrophoresis**
- **ISH**
- **Western blot** (trained to detect specific proteins in sample homogenate)
- **Transfection** (siRNA constructs trained for detecting lncRNA in major Lab project for male infertility)
- **Model handling** (Mouse, *C.elegans*)