

# AMMARA KHALID

## PERSONAL INFORMATION

**Father's Name:** Syed Khalid Ashraf  
**Date of Birth:** 29-01-1986  
**Marital Status:** Married  
**Nationality:** Pakistani  
**Religion:** Islam  
**Organization:** Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore  
**E-mail:** [amara.mmg@pu.edu.pk](mailto:amara.mmg@pu.edu.pk)

## ACADEMIC BACKGROUND

I have maintained 1<sup>st</sup> division throughout my academics, and my area of specialization in studies is *Bioinformatics*.

Degree / Certificate	Year	Specialization	Institution
PhD	In progress	Microbiology and Molecular Genetics	University of the Punjab, Lahore
MS	2011	Bioinformatics	International Islamic University, Islamabad
BS (Hons.)	2008	Bioinformatics	International Islamic University, Islamabad
Intermediate (HSSC)	2003	Pre-Medical group	Federal Board, Islamabad
Matric (SSC)	2001	Science	Federal Board, Islamabad

## PROFESSIONAL EXPERIENCE

### Research Officer – MMG (2012 – 2018)

I have served the Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, in 2012 as **Research Officer** for over 5 years. During this phase, I had the honor to teach subjects of my choice such as *Bioinformatics* and *Gene and Genome Analysis*, and supervise research works of BS and MS level students. My areas of interest in research include Computer-aided drug designing, Genetics and Proteomics Analysis.

### Visiting Faculty

I also serve as a visiting faculty in Department of Department of Allied and health sciences, Superior University, Lahore in 2017.

## Lecturer – MMG (2018 – Present)

I now serve the Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, as **Lecturer**. My prior research experience as **Research Officer** proved invaluable for my self-development and career progression in this institute. I retain much of my former responsibilities in this capacity.

## RESEARCH EXPERIENCE

### MS in Bioinformatics:

- **Dissertation:** “Design of new bio-active antioxidant molecules by using computer aided molecular modeling techniques,” International Islamic University, Islamabad

### Supervision of Research Works of students:

- **Dissertation for M.Phil. (Kiannat Aamir)** “Genotyping and Polymorphic Association of *PON1* and *NOS3* gene variants with Cardiovascular Disease and their Pharmacogenetic Studies” **2019**
- **Dissertation for M.Phil.(Maliha Mufti):** “Polymorphic association study of *APOE* and *NOS3* with susceptibility to cardiovascular disease” **2018**
- **Dissertation for M.Phil. (Sara Aslam):** “Genotyping of *Pax5* and *Flt3* Genes in Pakistani Population and its Pharmacogenetics Study in Association with Acute Lymphoblastic Leukemia (ALL)” **2018**
- **Dissertation for M.Phil. (Huma Butt):** “Genotyping of acute lymphoblastic leukemia related genes and their pharmacogenetics studies ” **2017**
- **Dissertation for M.Phil. (Annam Salahuddin):** “Design of novel SLE molecules by using computer aided molecular modeling techniques” **2014**
- **Dissertation for MSc (Ayesha Abid):** “In silico screening of natural compounds against *GJB2* linked hearing impairment” (2019)
- **Dissertation for MSc (Zaeema Mansoor):** “ Screening of HIV inhibitor and their Molecular Docking studies with *CCR5* ” **2017**
- **Dissertation for MSc (Sadia Iqbal):** “Linkage analysis of *BDNF* gene with schizophrenia” **2016**
- **Dissertation for BS (Sehrish Shafique):** “Molecular docking and ADMET studies of *APOE4* inhibitors for the treatment of Alzheimer disease”**2019**
- **Dissertation for BS (Zainab Waseem):** “Screening of phytochemicals and synthetic compounds to evaluate their therapeutic response in Bipolar disorder”**2018**
- **Dissertation for BS (Mahnoor Ali):** “In-silico studies of Monoamine Oxidase B inhibitors in Parkinson’s disease” **2017**
- **Dissertation for BS (Sadia Nadeem Ch.):** “In-vitro and in-silico analysis of *SLC6A4* gene mutation (I425V) in Obsessive Compulsive Disorder” **2016**
- **Dissertation for BS (M. Talal Amin):** “Designing of *PRKDI* homology models and their docking studies with potent inhibitors” **2014**

**NOTE:** The aforementioned list represents Dissertations that are complete and submitted.

## SEMINARS/WORKSHOPS/SYMPOSIUMS/CONFERENCES

- **Poster presentation** in RSC Pakistan 1<sup>st</sup> International Conference on Medicinal Chemistry & Drug Discovery COMSTECH Secretariat, Islamabad (October 18-19, 2018)
- **Poster presentation** in The family and diabetes workshop, MMG (November 14, 2018)
- **Poster presentation** in Familycon conference (January 12-14, 2018)
- **Member organizing committee** in one day symposium on HIV/AIDS, Punjab AIDS control Program (PACP) and MMG (30 March, 2017)
- Participated in 2<sup>nd</sup> International Workshop on X-ray Crystallography in structural Biology held by Forman Christian College Lahore (October 15-19, 2016)
- Participated in Dual use research of concern workshop held by MMG, University of the Punjab (July 18, 2016)
- Participated in Diversity in Microbiology: A crosstalk (December 17, 2015)
- **Poster presentation** in 10th Biennial International Conference of Pakistan Society of Microbiology held by Department of Microbiology and Molecular genetics, University of the Punjab (March 25-28, 2015)
- **Member organizing committee** in 10th Biennial International Conference of Pakistan Society of Microbiology held by Department of Microbiology and Molecular genetics, University of the Punjab (March 25-28, 2015)
- **Member organizing committee** in Workshop on Parasitology and its Immunological Aspects held by Department of Microbiology and Molecular genetics, University of the Punjab (February 13-14, 2015)
- Participated in 1st joint PAP/Path/AMP Conference (November 22-24, 2014)
- **Member organizing committee** in Symposium on Emerging issues of Multidrug Resistance in Department of Microbiology and Molecular genetics, University of the Punjab (October 2, 2014)
- Participated in Seminar on Recent trends in molecular therapeutics held by Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore (August 19, 2014)
- Participated in International Symposium on Molecular Forensic held by University of Health Sciences, Lahore (May 29, 2014)
- **Poster presentation** in Workshop on Biosafety and Risk Assessment held by Department of Microbiology and Molecular genetics, University of the Punjab (April 19, 2014)
- Participated in Seminar on Scientific Writing: Guidelines, Issues and Solutions organized by Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore (March 27, 2014)
- Participated in 1st National Students Conference on Biological Science held by National Institute for biotechnology and genetic engineering (NIBEG), Faisalabad (March 27-28, 2014)
- Participated in One Day Workshop on ENDNOTES held by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore (February 20, 2014)
- Participated in 37th Conference of Societies of Pathology held at Pearl Continental Hotel, Lahore (December 20-22, 2013)
  
- Participated in 2nd Annual Computational Science Conference held by International Islamic University Islamabad (October 20-25, 2013)

- **Member organizing committee** in Workshop on Basic Biosafety Measures in Research held by Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore (September 27, 2013)
- **Member organizing committee** in Conference on Bio-physicochemical basis for Technopreneurship held by Department of Microbiology and Molecular genetics, University of the Punjab (April 2-3, 2013)

## ADMINISTRATIVE EXPERIENCE

- Member of Board of studies Faculty of Life Sciences, University of the Punjab
- Member admission committee (BS/MS/MPhil/PhD)
- Member Departmental Committee for Anti Dengue
- Member departmental disciplinary committee
- Member departmental committee for management of newly admitted students
- Organizer for departmental outdoor games (girls events)

## PUBLICATIONS

- ❖ **Khalid, A.**, Aslam, S., Ahmed, M., Hasnain, S., & Aslam, A. (2019). Risk assessment of FLT3 and PAX5 variants in B-acute lymphoblastic leukemia: a case-control study in a Pakistani cohort. *PeerJ*, 7, e71195.
- ❖ Butt, H., **Khalid, A.**, & Yaqoob, M. (2017). Polymorphisms of BCL2 Gene in Acute Lymphoblastic Leukemia Patients in Pakistan and Screening of Phytochemicals to Overcome its Expression. *Biol Med (Aligarh)*, 10(424), 2.
- ❖ **Ammara Khalid**, Saima Kalsoom and Naveeda Riaz (2013) "Design and Molecular Docking of Antioxidant Lead Compound and its Analogues Acting as Human Tyrosine Kinase Inhibitors" *IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS)* e-ISSN: 2278-3008. Volume 5, Issue 4, PP 75-80.