

RESUME

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SAIRA MALIK

OBJECTIVE:

My objective is to work in a prestigious, dynamic, competitive & good environment where I can get experience of versatile dimension.

PERSONAL PROFILE:

Father's Name: Muhammad Anwer Malik

Date of Birth: 10-22-1975

N.I.C No: 35202-4948654-2

Gender: Female

Religion: Islam

Nationality: Pakistani

Marital Status: Single

ACADEMIC QUALIFICATION:

Qualification	Name of Institution (University/Board)	Marks/Grade/Percentage
PhD Microbiology and Molecular Genetics	University of the Punjab, Lahore, Pakistan	
MSc Microbiology and Molecular Genetics	University of the Punjab, Lahore, Pakistan	3.83 CGPA 1 st Position
BSc Medical Laboratory Technology	Sheikh Zayed Federal Post Graduate Medical Institute, Lahore, Pakistan (under University of the Punjab, Lahore, Pakistan)	1 st Division

EXPERIENCES :

INTERNSHIP:

M.Sc Internship March 24, 2014 -December 30, 2014. in Haleeb Dairy Food industry, Bhai Pheru, Punjab, Pakistan

BSc Internship as Medical Technologist, January 1998 -March 1998, Mumtaz Bakhtawar Trust Hospital, Lahore, Pakistan

WORK EXPERIENCE:

September 10, 2012 to date, Assistant Professor, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan

July 2016-July 2017 postdoctoral fellowship, Women University Multan, Pakistan (Screening of *MTHFR* gene in Myelomeningocele Patients and *SCNA1* gene in Epilepsy Patients)

September 19, 2005-September 9, 2012, Lecturer, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan

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January 2000-May 2003 Medical Technologist, (Medical Microbiology and Internal Quality Control in Biochemistry) Doctor's Hospital and Medical Center, Lahore, Pakistan

SEMINARS AND WORKSHOPS:

24 Days of Stem cells virtual event, by Gibco ThermoFisher. October 2019

Biosafety Training workshop for young researchers, November 26, 2018, University of the Punjab, Lahore, Pakistan

Attended as a presenter in Workshop "New trends in Biological Techniques" October 4-6, 2017, Lahore college for Women University, Lahore

Poster presentation in Gordon Research Conference on Single Nucleotide Polymorphisms and Disease, from June 12-17, 2016 in Mount Holyoke college, South Hadley, Massachusetts, USA

Workshop on DNA Fingerprinting, May 25-26 2016, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore

Training workshop, "Halal Foods", September 01, 2015, PCSIR Laboratories Complex, Lahore, Pakistan

Workshop on Research design for Diagnostic studies, November 5, 2015, University of Health Sciences, Lahore, Pakistan

Workshop on Nanoscience and Nanotechnology, August 27, 2015, Nano-Chemistry lab, GC University, Lahore, Pakistan

Organized and co-chaired a session in 10th Biennial International conference of Pakistan society of Microbiology Exploring microbes for future endeavours, March 25-28, 2015, University of the Punjab, Lahore, Pakistan

Poster presentation in 10th International conference "Functional foods and bioactive compounds in health and disease: Science and practice", March 13-15, 2012, University of California, Santa Barbara, California, USA

Work shop on Health care in 21st century: Importance of interoperability November 21-23, 2011, COMSTECH, Islamabad, Pakistan

2nd International Training workshop on DNA Microarray for Gene Expression and Training workshop on Biosafety in Biomedical Research, March 7-11, 2011, CEMB, University of the Punjab, Lahore, Pakistan

Workshop on Research Methodologies using Statistical techniques in Biological Sciences, January 3-8, 2011, University of Veterinary and Animal sciences, Lahore, Pakistan

Workshop on "Research Ethics", November 26-27, 2007, Shaikh Zayed, PGMI, Lahore, Pakistan

Workshop on Proteomics: From Sample Preparation to Data Analysis, October 24-25, 2007, University of the Lahore, Pakistan

TRAININGS:

Hands-on Training on EndNote®, January 12, 2016, Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan

HEC 3rd Faculty training program: Modules: (1) The Learner's Psychology (2) Academic Writing: Process and Skills, November 17, 2014-November 21, 2014 Department of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan

14th Annual Summer Institute in Statistical Genetics, June 15-July 1, 2009. Attended two modules: Human Association Mapping and Quantitative Genetics (June 22-26, 2009) Seattle, Washington, USA

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Training Course on "Biochemical Engineering and Fermenter Applications", August 19, 2006, University of the Punjab, Lahore, Pakistan

Training Course on "Private Sector Hospital Waste Management Program" May 8, 2005, Doctor's Hospital and Medical centre, Lahore, Pakistan

3-months certificate course in Spreadsheet Management (Lotus1-2-3) (1996), University of the Punjab, Pakistan

3-months certificate course in Word Processing and Data Base Management (1996), University of the Punjab, Pakistan

LANGUAGE COURSE:

Secured full marks Chinese language course CLC Level 1 (February 18- May 18), Confucius Institute, University of the Punjab, Lahore, Pakistan

Secured full marks Chinese language course CLC Level 2 (August 18- December 18) from Confucius Institute, University of the Punjab, Lahore, Pakistan

Passed Chinese language course CLC Level 3 with good score from Confucius Institute, University of the Punjab, Lahore, Pakistan

Passed HSK Level 1 (official) securing 100% marks

Passed HSK Level 2 (official) securing 88% marks

Currently enrolled in Chinese language course CLC Level 4 in Confucius Institute, University of the Punjab

PUBLICATIONS:

Suboor ul Hassan and Saira Malik. Genetic association of LCT-13910 C/T and LCT-22018 G/A with adult type hypolactasia in Pakistan. Accepted in *Pakistan Journal of Zoology* (2019)

Butt A, Malik S. Microbial and parasitic contamination on circulating Pakistani Currency. *Advancements in Life Sciences*. 2015; 2(4): 150-157

Malik S, Wilcox ER, Naz S. Novel lip pit phenotypes and mutations of *IRF6* in Van der Woude Syndrome Patients from Pakistan. *Clinical Genetics* 2014; 85: 487-491

Malik S, Kakar N, Hasnain S, Ahmad J, Wilcox ER, Naz S. Epidemiology of Van der Woude syndrome from mutational analyses in affected patients from Pakistan. *Clinical Genetics* 2010; 78: 247-256

Afshan Butt, Saira Malik. Microorganisms on currency notes and coins in circulation. LAP LAMBERT Academic Publishing. OmniScriptum GmbH & Co. KG. ISBN: 978-3-659-70880-0

Waqas Ahmad, Saira Malik. Mutational Analysis of *MSX1* in Pakistani Population- Pierre Robin Sequence and Non-syndromic Cleft lip and/or Cleft Palate (Orofacial Cleft). LAP LAMBERT Academic Publishing. OmniScriptum GmbH & Co. KG. ISBN: 978-3-659-55625-8

ABSTRACTS:

Malik S and Butt A. (2012) in 10th International conference "Functional foods and bioactive compounds in health and disease: Science and practice" March 13-15, 2012 University of California, Santa Barbara, California, USA

Richards E, Malik S, Egbert B, Ferguson A, Wilcox D, Lalwani A, Naz S, Wilcox E. (2008) Linkage analysis of nonsyndromic cleft lip with or without cleft palate in a

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consanguineous Pakistani family. Program No. 1670 in 58th Annual meeting of the American Society of Human Genetics, 11-15 November, Philadelphia, PA, USA

Malik S and Naz S (2007). In 1st symposium of Microbiology & Molecular Genetics (MMG), PU, on Genomics, Proteomics and Metabolomics: Recent Trends in Biotechnology, Lahore, Pakistan.
Mutational Analysis of IRF6 gene in VWS patients from Pakistan

ACHIEVEMENTS:

Got scholarship to visit Summer Camp 2019 in China, from Confucius Institute, University of the Punjab and Hanban China

Got Scholarship to attend 14th Annual Summer Institute in Statistical Genetics, June 15-July 1, 2009, Seattle, Washington, USA

Got merit certificate for being First in MSc, 2005, University of the Punjab, Lahore, Pakistan

SKILLS/METHODS:

- DNA extraction
- Polyacrylamide gel electrophoresis
- Primer designing for PCR
- Polymerase chain reaction (PCR)
- Restriction analysis
- DNA cloning
- Sanger Sequencing
- Transformation
- Microbiological analysis including Medical Microbiology and Food Microbiology
- Medical Laboratory analyses (Microbiology and Parasitology, Immunology, Hematology and Blood Banking, Biochemistry, Clinical Pathology, Histology and Microtechniques)

PROJECTS COMPLETED:

Lactose intolerance and its association with single nucleotide polymorphisms of the Lactase gene (2015-2016)

A genetic study on cleft lip and/or cleft palate in Pakistani population (2014-2015)
Role of *SCO2* mutations in Myopia (2013-2014)

Mutational analysis of *PRPH2* gene in patients of Retinitis pigmentosa, cone-rod dystrophy and other macular dystrophies (2012-2013)

Role of *MSX1* mutations in Pierre Robin sequence and non-syndromic cleft lip/or cleft palate in Pakistan (2011-2012)

Isolation of microorganisms from currency notes and coins in circulation and antimicrobial sensitivity patterns of medically important microbes (2010-2011)

Molecular characterization of Brachydactyly in Pakistan (2009-2010)

Carrier screening of Thalassemia in Pakistan (2008-2009)

PROJECTS IN PROGRESS:

Molecular characterization of recessively inherited cataract in Pakistan

RESEARCH INTERESTS:

- Human Genetics
- Medical Microbiology
- Molecular Biology
- Molecular Medicine
- Tissue Culture
- Stem cell Technology

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OTHER INTERESTS:

Enrolled on lms.digiskills.pk for online course of Freelancing and Graphic designing

EXTRA-CURRICULAR ACTIVITIES:

- Like to play Badminton, Cricket, and Baseball. 1st Prize Winner in Badminton and Cricket during MSc, Annual departmental games, University of the Punjab.
- Gardening
- Pets
- Interior designing