

MR. MUHAMMAD TAHIR UL QAMAR

PERSONAL INFORMATION

Date of Birth : 01-October-1992
Father's Name : Muhammad Ismail
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CAREER OBJECTIVE

I see myself as an active and enthusiastic Bioinformatician with well developed Biotechnology techniques and Computational skills combined with strong interpersonal and organisational abilities. I am seeking to join a team of dedicated and ambitious people working on projects that involve blend of Bioinformatics and Molecular Biology to enhance my knowledge and personality.

EDUCATIONAL RECORD

Degree/Subject	Year	Grade	Institute
Ph.D. (<i>Bioinformatics</i>)	2016-2019	Continue	Huazhong Agricultural University, Wuhan, Hubei, China
M.Phil. (<i>Biotechnology</i>)	2014-2016	CGPA 3.74/4.00 (79% Marks)	University of Agriculture, Faisalabad, Punjab, Pakistan
B.S.(Hons.) (<i>Bioinformatics & Biotechnology</i>)	2010-2014	CGPA 3.21/4.00 (75% Marks)	Government College University, Faisalabad, Punjab, Pakistan
F.Sc. (<i>Pre Medical</i>)	2008-2010	Division 1 st	Government Islamia College, Chiniot, Punjab, Pakistan
Matriculation (<i>Science</i>)	2006-2008	Grade A ⁺	Masoomen Foundation Boys High School, Chiniot, Punjab, Pakistan

RESEARCH PROJECTS

1. M.Phil Project

Title: Computational and molecular characterization of wheat DNA sequence encoding plastidic 16S ribosomal RNA

Supervisor: Prof. Dr. Muhammad Sarwar Khan (Director)

URL of Supervisor Profile: https://www.researchgate.net/profile/Muhammad_Sarwar_Khan2

2. BS (Hons.) Project

Title: Medicinal plants activities, phytochemicals and structural database development and estimation of medicinal plants phytochemicals inhibitory effects against Dengue virus through *in-silico* approaches.

Supervisor: Dr. Usman Ali Ashfaq (Assistant Professor)

URL of Supervisor Profile: https://www.researchgate.net/profile/Usman_Ashfaq2

BIOLOGICAL RESEARCH & COMPUTATIONAL SKILLS

1. **Molecular Research lab:**

DNA/RNA/Protein extraction, PCR amplification, Gel electrophoresis, Cloning, Transformation, Tissue culture and familiar with most of the basic techniques

2. **Bioinformatics Skills:**

In-silico analysis, Genome sequence analysis, Homology modelling, Molecular docking, Protein-Protein interaction, DNA/RNA folds modelling, DNA-Protein docking, Mutation analysis, Phylogenetic analysis, Drug designing/discovery and familiar with most of the computational biology techniques

3. **Programming Skills:**

Linux, C++, OOP, HTML, CSS, PHP, JAVA, Perl, Python, R

4. **Software's:**

Microsoft Office complete, Adobe Suite, Coral Draw Suite, and most of Bioinformatics online available tools

5. **Other Specialities:**

Scientific Writing, Database Development, Web Development, Primer designing

AWARDS AND ACHIEVEMENTS

1. Winning of “**Fully Funded Chinese Government Scholarship**” for Ph.D. Bioinformatics (Fall 2016) in Huazhong Agriculture University, Wuhan, China.
2. Winning of “**Merit Laptop**” from *Prime Minister of Pakistan*, 2015.
3. Winning of “**2nd Poster Position**” at 1st *International Conference on “Applied Chemical, Biological and Life Sciences (ICACBAS 2014), February 18-20, 2014”* Organized by Faculty of Sciences and Technology, Government College University, Faisalabad, Pakistan.
4. Winning of “**Fully Funded Chinese Government Scholarship**” for M.Phil. Bioinformatics (Fall 2014) in Huazhong Agriculture University, Wuhan, China.
5. Winning of “**University Scholarship**” for M.Sc. Biomedical Sciences (Fall 2014) in Bradford University, UK.

PROFESSIONAL MEMBERSHIP AND EXPERIENCE

Designation	Organization	From	To
Reviewer	Different International Journals	--	--
Interne	Agricultural Biotechnology Research Institute, Ayub Agricultural Research Institute, Faisalabad, Pakistan	04-02-2014	15-05-2014
Research assistant	Health Biotechnology Lab, Dept. of Bioinformatics & Biotechnology, Government College University, Faisalabad, Pakistan	01-08-2013	10-01-2014
University Representative	Institute of Electrical and Electronics Engineers (IEEE), GCUF, Pakistan	10-08-2013	20-08-2014
University Representative	National Academy of Young Scientists (NAYS), GCUF, Pakistan	15-10-2012	20-08-2014
President	Cultural and Character Building Society (CCBS), Government College University, Faisalabad, Pakistan	01-11-2012	15-04-2013

PUBLICATIONSInternational publications: **15**Total citations: **30**

1. **Ul Qamar, MT.**, Ashfaq, UA., Mumtaz, A., Tariq, Q., Goheer, A., Ahmed, Bilal. (2018). In-silico identification and evaluation of plant flavonoids as dengue NS2B/NS3ns2b/ns3 protease inhibitors using molecular docking and simulation approach. *Pakistan Journal of Pharmaceutical Sciences*.
Available online at: Accepted/In press
2. Chang, JW., Zhou, YQ., **Ul Qamar, MT.**, Ding, Y., Chen, LL. (2016). Prediction of Protein-Protein Interactions by Evidence Combining Methods. *International Journal of Molecular Science*.
Available online at: <http://www.mdpi.com/1422-0067/17/11/1946/html>
3. Mumtaz, A., Ashfaq, UA., **Ul Qamar, MT.**, Anwar, F., Gulzar, F., Ali, MA., Saari, N., Pervez, MT. (2016). MPD3: A Useful Medicinal Plants Database for Drug Designing. *Natural Product Research*.
Available online at: <http://www.tandfonline.com/doi/abs/10.1080/14786419.2016.1233409?journalCode=gnpl20>
4. **Ul Qamar, MT.**, Kiran, S., Ashfaq, UA., Javed, MR., Anwar, F., Ali, MA., Gilani, AH. (2016). Discovery of Novel Dengue NS2B/NS3 Protease Inhibitors Using Pharmacophore Modeling and Molecular Docking Based Virtual Screening of the ZINC Database. *International Journal of Pharmacology* 12:621-632.
Available online at: <http://www.scialert.net/fulltext/?doi=ijp.2016.621.632>
5. Shaheen, B., Shaheen, T., Ur Rehman, S., Ur Rahman, M., Nwaz, M., **Ul Qamar, MT.**(2016). In silicoMechanistic Study of Absciscic Acid (ABA) Mediated Drought Tolerance in Crops. *Journal of Bioresource Management* 3:1-7.
Available online at: <http://corescholar.libraries.wright.edu/jbm/vol3/iss1/7/>

6. Shaheen, T., Khan, AA., **Ul Qamar, MT.**, Ur Rahman, M. (2015). RAPD and 16S rRNA analysis for estimation of genetic diversity of plant growth promoting rhizobacteria (PGPR_s) strains found in different areas of Pakistan. *The journal of Animal and Plant sciences* 25:5, 1457-1465.
Available online at: <http://www.thejaps.org.pk/Volume/2015/25-05/abstract/34.php>
7. Ashfaq, UA., Jalil, A., **Ul Qamar, MT.** (2015). Antiviral phytochemicals identification from *Azadirachta indica* leaves against HCV NS3 protease: an *in silico* approach. *Natural Product Research* 29:19, 01-04.
Available online at: <http://www.tandfonline.com/doi/abs/10.1080/14786419.2015.1075527>
8. **Ul Qamar, MT.**, Mumtaz, A., Ashfaq, UA., Adeel, MM., Fatima, T. (2014). Potential of plant alkaloids as Dengue NS3 Protease inhibitors: Molecular Docking and simulation approach. *Bangladesh Journal of Pharmacology* 9:3, 262-267.
Available online at: <http://www.banglajol.info/bd/index.php/BJP/article/view/18555>
9. Ahmed, B., Ashfaq, UA, **Ul Qamar, MT.**, Ahmad, M.(2014). Anticancer potential of phytochemicals against breast cancer: Molecular docking and simulation approach. *Bangladesh Journal of Pharmacology* 9:4, 545-550.
Available online at: <http://www.banglajol.info/bd/index.php/BJP/article/view/20412>
10. Ashfaq, UA., Mumtaz, A., **ul Qamar, MT.**, Fatima, T. (2013). MAPS Database: Medicinal plant Activities, Phytochemical and Structural Database. *Bioinformation* 9, 993-995.
Available online at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3867654/>
11. **ul Qamar, MT.**, Mumtaz, A., Ashfaq, UA., Azhar, S., Fatima, T., Hussain, S., Hassan, M., Akram, W., Idrees, S. (2014). Computer aided screening of phytochemicals from *garcinia* against the dengue NS2b/NS3 protease. *Bioinformation* 10, 115-118.
Available online at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3974236/>
12. **Ul Qamar, MT.**, Mumtaz, A., Naseem, Rabbia., Ashfaq, UA.(2014). Molecular Docking Based Screening of Plant Flavonoids as Dengue NS1 Inhibitors. *Bioinformation* 10:7, 460-465.
Available online at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4135296/>
13. Adeel, Muzammal., **Ul qamar, MT.**, Ashfaq, UA. (2014). Modelling and simulation of mutant alleles of breast cancer metastasis suppressor 1 (BRMS1) gene. *Bioinformation* 10:7, 454-459.
Available online at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4135295/>
14. Huma, T., Maryam, A., **ul Qamar, MT.** (2014). Molecular modeling and docking of wheat hydroquinone glucosyltransferase by using hydroquinone, phenyl phosphorodiamate and n-(n butyl) phosphorothiocic triamide as inhibitors. *Bioinformation* 10, 124-129.
Available online at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3974238/>
15. Huma, T., Maryam, A., Shaheen, B., **Ul qamar, MT.** (2014). Phylogenetic and Comparative Sequence Analysis of Thermostable Alpha Amylases of kingdom Archea, Prokaryotes and Eukaryotes. *Bioinformation* 10:7, 443-448.
Available online at: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4135293/>

CONFERENCES

Oral Presentations: 09

Poster Presentations: 08

1. **Muhammad Tahir ul Qamar** et al. A poster presentation entitled “Inhibition of cancer therapy target Cyclin-Dependent Kinase-2 (CDK2) and anti-cancer potential of medicinal plant phytochemicals” was delivered at “*1st International conference on Advancements of Biotechnology*, March 30-31, 2016”. Organized by Government College Women University (GCWUF), Faisalabad, Pakistan. Abstract of above entitled presentation is on page# 71.
2. **Muhammad Tahir ul Qamar** et al. An oral presentation entitled “DREB gene from *Gossypium arboreum* L. cultivar FDH-786: identification, characterization, homology modeling and protein-protein interactions” was delivered at “*4th International Molecular Biology and Biotechnology Congress & Conference on Life Sciences Research*, September 04-06, 2015”. Organized by Life Sciences Society, Pakistan. Abstract of above entitled presentation is on page# 15 published by Asian J Agri Biol, Special Issue-2015.
3. **Muhammad Tahir ul Qamar** et al. An oral presentation entitled “Virtual screening, complex based pharmacophore modeling, molecular docking and simulation of potential compounds from zinc database for inhibition of dengue ns3 protease” was delivered at “*3rd National Computational Science Conference (NCSC)*, May 13-15, 2015”. Organized by Pakistan society for Computational Biology (PSCB) at institute of space technology, Islamabad, Pakistan. Abstract of above entitled presentation is on page# 42. Other group fellow’s oral presentations abstracts are on page# 37 and 58. Poster abstract P067 is on page # 222.
4. **Muhammad Tahir ul Qamar** et al. An oral presentation entitled “Bioethanol production from starch bearing crop maize” was delivered at “*3 Days International Conference on Energy Production from Agriculture Biomass and Domestic Wastes*, April 15-17, 2014”. Organized by University Institute of Biochemistry and Biotechnology, PMAS-Arid Agriculture University, Rawalpindi. Abstract of above entitled presentation is on page# 19 and group fellow’s abstract are on page# 22.
5. **Muhammad Tahir ul Qamar** et al. An oral presentation entitled “Insilico analysis of pathogenic mutation in Breast cancer metastasis suppressor 1 (BRMS 1) gene” was delivered at “*1st National Student Research Conference on Biological Sciences*, March 27-28, 2014”. Organized by National institute of Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan.
6. **Muhammad Tahir ul Qamar** et al. An oral presentation entitled “Computer aided screening revealed *garcinia* phytochemicals antiviral activity against dengue NS2b/NS3 protease” was delivered at “*2nd International Conference on Global Environment Changes*, February 25-26, 2014”. Organized by Department of Environmental Sciences, at Government College University, Faisalabad, Pakistan. Abstract is on page# 165.
7. **Muhammad Tahir ul Qamar** et al. An oral presentation entitled “Computational screening of alkaloids as dengue virus inhibitors through molecular docking” was delivered at “*1st International Conference on Applied Chemical, Biological and Life*

Sciences (ICACBAS 2014), February 18-20, 2014". Organized by Faculty of Sciences and Technology, at Government College University, Faisalabad, Pakistan. Abstract of above entitled presentation is on page# 43. Other group fellow's oral presentations abstracts are on page# 41 and 51. Poster abstracts P018 on page # 100, P031 on page # 107, P032 on page # 107, P044 on page # 113 and P046 on page # 114. I got "**2nd Poster Position**" on P046 entitled "Bioethanol Production Using Rice Straw".

8. **Muhammad Tahir ul Qamar** et al. An oral presentation entitled "MAPS Database" was delivered at "*3rd International Conference on Functional Foods & Nutraceuticals*, December 4-5, 2013". Organized by Department of Food Sciences, Nutrition and Home Economics, at Government College University, Faisalabad, Pakistan. Abstract is on page# 40.
9. **Muhammad Tahir ul Qamar** et al. A poster presentation entitled "Medicinal Plants Activities Database" was delivered at "*12th International and 24th National Chemistry Conference*, October 28-30, 2013". Organized by Institute of Chemical Sciences& The Chemical Society of Pakistan at Bahauddin Zakariya University, Multan, Pakistan. Abstract of above entitled presentation is on page# 162 and group fellow's abstract is on page# 169.
10. **Muhammad Tahir ul Qamar** et al. An oral presentation entitled "MAPS DATABASE: Medicinal Plants Activities, Phytochemicals and Structural Database" was delivered at "*2nd Annual Computational Science Conference*, October 20-25, 2013". Organized by Pakistan Society of Computational and Biology Science (PSCS/PSCB), at International Islamic University, Islamabad, Pakistan.
11. **Muhammad Tahir ul Qamar** et al. A poster presentation entitled "Bioethanol, bio-hydrogen and biogas production from nitric acid pretreated wheat straw by a flocculating *saccharomyces cerevisiae* strain" was delivered at "*1st International Conference on Renewable Energy Technologies in Pakistan*, October 1-3, 2013". Organized by DADD &University of Kassel, Germany at University of Agriculture, Faisalabad, Pakistan. Abstract of above entitled presentation is on page# 61 and group fellow's abstracts are on page# 59 & 62.
12. **Muhammad Tahir ul Qamar** et al. A poster presentation entitled "Biochemistry of Cadmium Induced Cancer and How Bioinformatics Help in Cancer Studies" was delivered at "*1st International Conference on Application of Molecular Biology in Medicine and Agriculture*, August 20-22, 2013". Organized by Department of Biochemistry, Quaid-i-Azam University at National Centre of Physics (NCP), Islamabad, Pakistan. Abstract of above entitled presentation is on page# 109 and group fellow's abstracts are on page# 33, 47, 108 & 110.
13. Participated in "*1st National Conference on Emerging Trends in Bioinformatics and Computational Biology*, May 25, 2013". Organized by Department of Bioinformatics, Mohammad Ali Jinnah University, at Islamabad Campus, Islamabad, Pakistan.
14. **Muhammad Tahir ul Qamar** et al. A poster presentation entitled "Gene Therapy" was delivered at "*One Day National Symposium on Applications of Biotechnology in Health and Agriculture*, March 28, 2012". Organized by Department of Bioinformatics and Biotechnology, at Government College University Faisalabad, Pakistan.

TRAINING

- Participated in “One Day Training Workshop on **Bioinformatics Skills Development**, December 6, 2013”. Organized by IEEE, GCUF Computer Science Branch, at Government College University, Faisalabad.
- Participated in “One Day Training Workshop on **Research Proposal Writing (Quantitative, Qualitative & Mixed Research Design)**, September 07, 2013”. Organized by Office of Research Innovation & Commercialization (ORIC), at University of the Punjab, Lahore, Pakistan.
- Participated in “5th One Day Training workshop on **Young Researchers Skill Development Workshop**, December 15, 2012”. Organized by National Academy of Young Scientists (NAYS), at University of Agriculture, Faisalabad, Pakistan.

ORGANIZED EVENTS

- Organized 3-days 1st International Conference on “**Applied Chemical, Biological and Life Sciences (ICACBAS 2014)**”, at Department of Bioinformatics and Biotechnology, Government College University Faisalabad, Pakistan (February 18-20, 2014).
- Organized one day Symposium on “**Prospects for A Glorious Pakistan: Role of Emerging Technologies**” at Department of Bioinformatics and Biotechnology, Government College University Faisalabad, Pakistan (December 12, 2013).
- Organized one day workshop on “**Bioinformatics Skills Development**” at Government College University, Faisalabad (December 6, 2013).
- Organized one day Workshop on “**BEAST Software**” at Department of Bioinformatics & Biotechnology, Government College University, Faisalabad, Pakistan (January 14, 2013).
- Organized one day Workshop on “**Neurosciences**” at Department of Bioinformatics & Biotechnology, Government College university, Faisalabad, Pakistan (December 30, 2012).
- Organized one day Seminar on “**Spoken & Written Novelty**” at Department of Bioinformatics & Biotechnology, Government College University, Faisalabad, Pakistan (November 06, 2012).
- Organized one day Symposium on “**Applications of Biotechnology in Health and Agriculture**” at Department of Bioinformatics and Biotechnology, Government College University Faisalabad, Pakistan (March 28, 2012).

REFERENCES

➤ **Prof. Dr. Ling-Ling Chen**

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