

Dr. Muhammad Akmal Farooq

PhD Pharmaceutical Sciences
(Pharmacology)

Personal Info

Address
Department of Pharmacy,
University of Agriculture,
Faisalabad, Pakistan.

Phone
+923336335992

E-mail
mafarooq1988@gmail.com
dr.makmal@uaf.edu.pk

Date of Birth
1st January 1988

Languages

English, Urdu (Fluent)
French (Level B1)

Skills

Project Management
Time Management
Team Work
Budget Management
Professional Reporting
Scientific and Medical
Communications
Data Collection and Statistical
Analysis

Highly motivated individual looking forward to take a challenging position in a medical academic & research organization to enhance scientific knowledge about the pathophysiology of prevailing human diseases to devise therapeutic interventions in best interests of patients suffering from those diseases.

Experiences

Research Experience

PhD Pharmacology (2015-2018) Doctoral School of Health and Life Sciences University of Strasbourg France	Objectives <ul style="list-style-type: none">• To evaluate the beneficial effects of omega-3 fatty acids EPA:DHA 6:1 formulation to ameliorate age-related endothelial dysfunction: Role of oxidative stress and cyclooxygenases.
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MPhil Pharmacology (2012-2014) Faculty of Pharmacy Bahauddin Zakaiya University Multan.	Objectives <ul style="list-style-type: none">• Pharmacological investigations to validate folkloric uses of <i>Cucumis trigonus</i> Roxb.
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Work Experience

Assistant Professor (Mar 2022-Till date)	Responsibilities <ul style="list-style-type: none">• Teaching & Research supervision at Department of Pharmacy, University of Agriculture, Faisalabad.
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Assistant Professor (Feb 2019- Feb 2022)	Responsibilities <ul style="list-style-type: none">• Teaching Pharmacology & Physiology to Pharm-D students at Quaid-e-Azam College of Pharmacy, Sahiwal.
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Education

2015 – 2018	PhD Pharmacology Faculty of Pharmacy University of Strasbourg, France.
2012 – 2014	MPhil Pharmacology (3.87/4.00) Faculty of Pharmacy Bahauddin Zakariya University Multan.
2005 – 2011	Pharm D (1st Division) Faculty of Pharmacy Bahauddin Zakariya University Multan.

Achievements & Awards

90% Overseas Merit Scholarship from Higher Education Commission Pakistan for PhD studies in France

Training on experimental procedures in rodents from Faculty of Life Sciences, University of Strasbourg, France

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Technical Skills

Primary Cell culture: Porcine coronary endothelial cells & Rat splenocytes
Animal handling: Rabbits, Rats (Wistar, ZSF1, ZDF) and mice
In-vivo project management
Experimental techniques: Animal dissection, Vascular reactivity,
Western blot, Confocal laser microscopy, Flow cytometry, Platelet
aggregation, ROS Detection & Quantification, Immunohistochemistry.

Conferences

Oral Presentations

1. IUPHAR/ICMAN Joint meeting on natural products 2017, Aberdeen, UK
2. NutRedox Cost Action 2017, Strasbourg, France

Poster Presentations

1. Printemps de Cardiologie (ESC) 2017, Nantes, France
2. Journee campus d'illkirch (JCI) 2017, Illkirch, France
3. European symposium on vascular biomaterials (ESVB) 2017, Strasbourg, France
4. Ecole doctoral days (ED days) 2017, Strasbourg, France.
5. Doctoral school days (DS days) 2018, Strasbourg, France.

Scientific Society/Council Membership

1. European Society of Cardiology (ESC) 2017-18
2. Punjab Pharmacy Council Since 2011

Publications

Published Research Articles: (Total Impact Factor = 29.92)

1. Intake of omega-3 formulation EPA:DHA 6:1 by old rats for 2 weeks improved endothelium-dependent relaxations and normalized the expression level of ACE/AT1R/NADPH oxidase and the formation of ROS in the mesenteric artery. **M.A. Farooq**, S. Gaertner, L. Amoura, Z.R. Niazi, S. Park, A.W. Qureshi, M.H Oak, F. Toti, V.B. Schini-Kerth, C. Auger. (in **Biochemical Pharmacology IF= 5.85**)
2. Ageing enhances the shedding of splenocyte microvesicles with endothelial pro-senescent effect that is prevented by short-term intake of omega-3 PUFA EPA: DHA 6:1. A. Qureshi, R. Altamimy, A. El Habhab, H.A. Itawi, **M.A. Farooq**, F. Zubairi-El Ghazouani, H. Hasan, L. Amoura, C. Auger, V. Schini-Kerth, F. Toti. (in **Biochemical Pharmacology IF= 5.85**)
3. Empagliflozin, a sodium-glucose cotransporter2 inhibitor, improved systolic blood pressure, endothelial dysfunction and heart remodeling in the metabolic syndrome ZSF1 rat. S. Park, **M.A. Farooq**, S. Gaertner, C. Brucker, A.W. Qureshi, H. Lee, D. Benrahla, B. Pollet, D. Stephan, P. Ohlmann, J. Lessinger, E. Mayoux, C. Auger, O. Morel, V.B. Schini-Kerth. (in **Cardiovascular Diabetology IF= 9.95**)
4. Oral Intake of EPA:DHA 6:1 by Middle-Aged Rats for One Week Improves Age-Related Endothelial Dysfunction in Both the Femoral Artery and Vein: Role of Cyclooxygenases. S. Gaertner, C. Auger, **M.A. Farooq**, B. Pollet, S. Khemais-Benkhiat, Z.R. Niazi, S. Schrevens, S. Park, F. Toti, D. Stephan, V.B. Schini-Kerth. (in **International Journal Of Molecular Sciences IF= 5.92**)

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5. Hawthorn berry (*Crataegus songarica*) causes endothelium-dependent relaxation of the porcine coronary artery: Role of estrogen receptors. W. Younis, A. Ghulab, V.B. Schini-Kerth, **M.A. Farooq**, M. Althobaiti, R.E. Roberts (**in Journal of Berry Research IF= 2.35**)
6. *Fumaria indica* (Hausskn.) Pugsley Hydromethanolic Extract: Bioactive Compounds Identification, Hypotensive Mechanism, and Cardioprotective Potential Exploration. Syed Adil Hussain Shah, Samia Latif Rana, Mohamed Mohany, Marija Milošević, Salim S. Al-Rejaie, Muhammad Akmal Farooq, Muhammad Naeem Faisal, Ambreen Aleem (**in ACS Omega IF= 4.1**)
7. Phytochemical Characterization and Anti-Arthritic potential of Green synthesized CuO Nanoparticles Derived from *Bistorta amplexicaulis* Root Extract. Mahrukh Babar, Bilal Aslam, Muhammad Naeem Faisal, Abdul Malik, Sohail Akhtar, Wafa Majeed, Asher Umer, Muhammad Akmal Farooq. (**in Frontiers in Pharmacology IF= 4.4**)

Published Conference Paper Abstracts (Total IF = 38.17)

1. O38 The omega-3 EPA:DHA 6:1 formulation improves ageing-related blunted endothelium-dependent relaxations and increased contractile responses in the mesenteric artery: Role of oxidative stress and cyclooxygenases. **Muhammad A. Farooq**, Lamia Amoura, Sébastien Gaertner, Zahid R. Niazi, Shinhee Park, Abdul W. Qureshi, Min-Ho Oak, Florence Toti, Valérie B. Schini-Kerth, Cyril Auger (**in Biochemical Pharmacology IF= 5.85**)
2. P3472 Oral intake of EPA:DHA 6:1 improves ageing-related blunted endothelium-dependent relaxations and increased contractile responses in the mesenteric artery: role of oxidative stress and cyclooxygenases. **M.A. Farooq**, L. Amoura, S. Gaertner, Z. Niazi, S. Park, A.W. Qureshi, M.H. Oak, F. Toti, V.B. Schini-Kerth, C. Auger (**in European Heart Journal IF= 29.98**)
3. 229 Chronic oral intake of EPA:DHA 6:1 improves both the NO and EDH components of ageing-related endothelial dysfunction and vascular oxidative stress in rats. **M.A. Farooq**, L. Amoura, S. Gaertner, A.W. Qureshi, F. Toti, V.B. Schini-Kerth, C. Auger (**in Archives of Cardiovascular Diseases Supplements IF= 2.34**)

Papers Submitted

1. Nausheen, Rimsha; Anwar, Haseeb; Hussain, Ghulam; Kursheed, Mohsin; **Farooq, Muhammad Akmal**; Muzaffar, Humaira; Mukhtar, Imran; Batool, Farwah and Iftikhar, Arslan. Unveiling the In-Vivo Apitherapeutic Potential of Indigenous Honey Types in Regenerating Pancreatic β -cells and Restoring Their Dysfunction. Submitted in Natural Product Communications
2. Humaira Nadeem; Arif Ullah Khan; Arifa Mehree; Saadiya Zia; Adnan Afzal; Muhammad Akmal Farooq, Zunaira Afzal; Muhammad Umar Zafar Khan; Sheraz Hussain; Hafiz Aamir Ali Kharl. Design and In Silico studies of Bezimidazole-Pyrazole oxidized Hybrids as Anti-ulcer Agents. Submitted to Structural Chemistry

Book Chapters Published

- Total 9 Book Chapters Published until now.

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Research Supervision

1. One Ph.D. Student Completed research and submitted thesis
2. One Ph.D student at course work stage
3. Six M.Phil Students have defended their M.Phil Thesis
4. One M.Phil student have submitted his thesis
5. One M.Phil. Student doing research
6. Four M.Phil Students at coursework stage.

Administrative Experience

1. Worked as Deputy Director Student Affairs in Department of Pharmacy at Quaid-e-Azam Educational Complex Sahiwal for 3 years.
2. Worked as HoD Department of Physical Therapy at Quaid-e-Azam Educational Complex for Four Months.
3. Assisted Dean Faculty of Veterinary Science, UAF in carrying out duties of Chairman Department of Pharmacy, University of Agriculture Faisalabad for 6 months.
4. Worked as Deputy Superintendent Z.A. Hashmi Hall, University of Agriculture Faisalabad for 8 Months.
5. Worked as Focal Person of Admissions in Department of Pharmacy, University of Agriculture, Faisalabad for Academic years 2022-23, 2023-24 & 2024-25.
6. Arranged One day Seminar on H.Pylori at Department of Pharmacy, University of Agriculture, Faisalabad.
7. Worked as member of Synopsis Scrutiny Committee.
8. Worked as Secretary Board of Studies for Department of Pharmacy, UAF.

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References:

1 Dr. Cyril AUGER (Ph.D. Supervisor)

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2 Valérie. B. SCHINI-KERTH (Team Head)

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4 Prof. Dr. Imran Arshad

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