



## Muhammad Samie

Date of birth: 30/05/1983 | **Nationality:** Pakistani | **Gender:** Male |

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House # 115, Street # 5, satellite town, Lalarukh, Wah Cantt, Pakistan

### WORK EXPERIENCE

21/02/2022 – CURRENT – Peshawar, Pakistan

**PHARMACY LECTURER** – INSTITUTE OF PHARMACEUTICAL SCIENCES, KHYBER MEDICAL UNIVERSITY

Job Description Includes:

- Teaching Courses (Physical Pharmacy, Pharmaceutical Dosage Forms, Organic Chemistry)
- Focal Person for SAR writing for undergraduate program.
- Departmental Safety Incharge
- Working on establishment of Industrial lab and Bioequivalence Centre in the Department.
- Focal Person for building Industrial and Academia Liaison.

15/08/2019 – CURRENT – Haripur, Pakistan

**PRODUCTION AND REGULATORY AFFAIRS MANAGER** – NOVAE PHARMACEUTICALS, PLOT # 123, PHASE V, HATTAR INDUSTRIAL ESTATE HATTAR

Job Description Includes:

- Management of all the manufacturing activities according to GMP guidelines
- Management of the regulatory affairs with DRAP.
- Registration of new products for local and export purpose

26/09/2019 – 14/03/2020 – Abbottabad, Pakistan

**VISITING LECTURER** – DEPARTMENT OF PHARMACY, COMSATS UNIVERSITY ISLAMABAD

Job description Includes:

- Course teaching (Industrial Pharmacy)
- Conducting Labs, Exams etc.
- Maintaining industrial & Academic liaison for students training

15/11/2018 – 30/04/2019 – Lancaster (Lancashire), United Kingdom

**VISITING PHD RESEARCHER** – LANCASTER UNIVERSITY

**Synthesis of bilayer scaffolds composed of different percentages of silk and hyaluronic acid.**

- Loading of Growth factors (TGF b, FGF) into the developed scaffolds.
- Characterization of these scaffolds using FTIR, SEM & TGA.
- Measuring the release of growth factors using ELISA Kit.

**Synthesis of nano and micro-particles from silk using novel methods.**

- Characterization using FTIR, SEM & Master sizer.
- Residual solvent analysis using GC.
- Patenting of a method for silk nano-particle synthesis.

27/10/2016 – 26/10/2018 – Lahore, Pakistan

**RESEARCH ASSISTANT** – INTERDISCIPLINARY RESEARCH CENTRE IN BIOMEDICAL MATERIALS (IRCBM), COMSATS UNIVERSITY ISLAMABAD

To Facilitate and accomplish HEC funded Project entitled;

## **Development and evaluation of drug loaded multilayered composite scaffolds for Osteochondral defects.**

The Project includes the synthesis of

- Microspheres loaded with an anti-inflammatory drug
- Nanofibers loaded with an antibiotic drug
- Bilayer scaffolds mimicking the ECM of bone and cartilage
- Bilayer scaffolds loaded with microspheres and nanofibers for controlled drug delivery.

Required analytical tools for characterization;

- Scanning Electron Microscopy (SEM)
- Fourier Transform Infrared Spectroscopy (FTIR)
- X-ray diffraction (XRD)
- Mechanical strength (UTM)
- Thermogravimetric analysis (TGA)
- UV-Vis Spectroscopy (UV-Vis)

Post synthesis and characterization further studies includes;

- Drug Loading and Release
- Cytotoxicity
- Antimicrobial studies
- Swelling index and Degradation rate
- Cell attachment, viability, migration and proliferation
- Effect of degradation products on cells viability

20/01/2014 – 13/04/2015 – Islamabad, Pakistan

**PHARMACY LECTURER** – HAMDARD INSTITUTE OF PHARMACEUTICAL SCIENCES HAMDARD UNIVERSITY ISLAMABAD CAMPUS

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Job Description includes;

- Teaching subjects relevant to pharmaceuticals.
- Designing course curriculum.
- Creative Questioning and problem based learning.
- Conducting internal and external viva and written exams.
- Coaching on effective time management and team building

Subjects taught

- Quality control of pharmaceuticals,
- Industrial pharmacy,
- Pharmaceutical preparations,
- Biochemistry and
- Pharmaceutical technology

01/01/2012 – 14/02/2014 – Islamabad, Pakistan

**MEDICAL EDUCATOR** – SANDOZ (NOVARTIS) PAKISTAN (PVT) LTD

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Job Description includes;

- Meeting Doctors on the scheduled time for discussion regarding Company's products (medicines).
- Delivering Presentations in hospitals on drugs and disease management.
- Highlighting the beneficial and adverse effects of medicines.
- Conducting free medical camps for patients at doctor clinics.
- Educating the patients on safe and effective use of medicines.

04/12/2010 – 31/12/2011 – Islamabad, Pakistan

**MEDICAL EDUCATOR** – MACTER INTERNATIONAL (PVT) LTD

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Job Description includes;

- Meeting Doctors on the scheduled time for discussion regarding Company's products (medicines).
- Delivering Presentations in hospitals on drugs and disease management.
- Highlighting the beneficial and adverse effects of medicines.
- Conducting free medical camps for patients at doctor clinics.
- Educating the patients on safe and effective use of medicines.

05/07/2007 – 20/02/2010 – Islamabad, Pakistan

**INDUSTRIAL PHARMACIST – AMSON VACCINES & PHARMA (PVT.) LTD**

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Job Description includes;

- Sterilization of Product components for Aseptic filling operations, including dry heat and moist heat sterilization techniques.
- Formulation of various liquid injectable Products.
- To carry out sterile area operations including Aseptic filling operations of sterile powders and Liquid Injectables.
- Management of all activities taking place during packaging of Liquid and Dry powder Injectables.
- Maintaining of Inventory levels of different products according to the need of market.
- Implementation of regulatory requirements in the Area.

01/2007 – 06/2007 – Peshawar, Pakistan

**INDUSTRIAL PHARMACIST – ALLIANCE PHARMACEUTICALS (PVT.) LTD HAYATABAD**

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Job Description includes;

- In process checks during manufacturing operations.
- Performance of Quality Control tests like disintegration, friability, hardness, moisture contents and weight variation.
- To supervise all processes of tablets manufacturing including dispensing of Raw materials, mixing, granulation, drying, compression, blistering and packaging.
- To carry out manufacturing of Dry powders for oral administration.

● **EDUCATION AND TRAINING**

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2015 – 2021 – Abbottabad, Pakistan

**PH.D (PHARMACEUTICS)** – Department of Pharmacy, COMSATS University Islamabad, Abbottabad campus

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**Project Title;**

Development and evaluation of drug loaded multilayered composite scaffolds for Osteochondral defects.

EQF level 8

2009 – 2011 – Sargodha, Pakistan

**M PHIL PHARMACEUTICS (18 YEARS EDUCATION)** – Faculty of Pharmacy University of Sargodha

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**Project Title;**

Design, formulation and in-vitro evaluation of sustained release tablet formulations of levosulpiride.

EQF level 7

2002 – 2006 – D.I.Khan, Pakistan

**BACHELOR OF PHARMACY (16 YEARS EDUCATION)** – Faculty of Pharmacy Gomal University

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**Major in;**

Pharmaceutics

Pharmacology

Pharmacognosy

Basic medical sciences

EQF level 6

31/03/2022 – 02/04/2022 – Peshawar, Pakistan

**THREE DAYS TRAINING WORKSHOP ON SELF ASSESSMENT REPORT WRITING** – Khyber Medical University

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31/07/2018 – 03/08/2018 – Lahore, Pakistan

**IRCBM'S 4TH DENTAL AND BIOMATERIALS SUMMER CAMP 2018** – Interdisciplinary Research Centre in Biomedical Materials CUI Lahore campus

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14/12/2017 – 16/12/2017 – at Pearl Continental Hotel, Lahore, Pakistan

**6TH INTERNATIONAL SYMPOSIUM ON BIOMEDICAL MATERIALS**, – Interdisciplinary Research Centre in Biomedical Materials CUI Lahore campus

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12/12/2016 – 15/12/2016 – at Pearl Continental Hotel, Lahore, Pakistan

**5TH INTERNATIONAL SYMPOSIUM ON BIOMEDICAL MATERIALS**, – Interdisciplinary Research Centre in Biomedical Materials CUI Lahore campus

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09/11/2016 – 11/11/2016

**WORKSHOP ON SPSS FOR PUBLIC HEALTH AND LIFE SCIENCE RESEARCH** – Comsats University Islamabad, Islamabad campus

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11/03/2015 – 12/03/2015

**EFFECTIVE WORKING RELATIONS IN PUBLIC AND PRIVATE SECTOR** – Ministry of Federal education & Professional training held at Pakistan Manpower institute Islamabad

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03/03/2015 – 05/03/2015

**1ST INTERNATIONAL CONFERENCE ON RECENT INNOVATIONS IN PHARMACEUTICAL SCIENCES** – Riphah institute of pharmaceutical sciences held at Margalla Hotel Islamabad

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05/2014

**INTERNATIONAL WORKSHOP ON IMPORTANCE OF PHARMACY PRACTICE RESEARCH** – Hamdard Institute of Pharmaceutical Sciences Islamabad Campus

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## **PUBLICATIONS;**

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- 1) **Muhammad Samie**, Ather Farooq Khan, John George Hardy\*, Muhammad Arfat Yameen. Electrospun antibacterial composites for cartilage tissue engineering. *Macromolecular Bioscience*, 2022, 2200219 (**IF: 5.859**)
- 2) **Muhammad Samie**, Muhammad Arfat Yameen\*, Hafiza Fakhera Ikram, Haffsah Iqbal, Aqif Anwar Chaudhry, Ihtesham ur Rehman, Ather Farooq Khan\*. Fabrication of dual drug loaded bilayered chitosan based composite scaffolds as osteochondral substitutes and evaluation of *in vitro* cell response using the MC3T3 Pre-osteoblast cell line. *Cellulose*, 2020, 27, 2253-2266. (**IF: 6.123**)
- 3) **Muhammad Samie**, Nawshad Muhammad\*, Muhammad Arfat Yameen\*, Aqif Anwar Chaudhry, Hamad Khalid\*, Ather Farooq Khan. Aqueous Solution of a Basic Ionic Liquid: A Perspective Solvent for Extraction and Regeneration of Silk Powder from Bombyx Mori silk Cocoons. (*Journal of Polymers and the Environment*, 2020, 28, 657-667. (**IF: 4.705**))
- 4) Saba Zahid, Hamad Khalid, Fakhera Ikram, Haffsah Iqbal, **Muhammad Samie**, Lubna Shahzadi, Asma Tufail Shah, Muhammad Yar, Aqif Anwar Chaudhry, Sana Javaid Awan, Ather Farooq Khan, Ihtesham ur Rehman. Bi-layered  $\alpha$ -tocopherol acetate loaded membranes for potential wound healing and skin regeneration. *Materials Science and Engineering: C*, 2019; 101: 438-447. (**IF: 7.328**)
- 5) Muhammad Arfat Yameen\*, Amir Zeb, Raza E Mustafa, Sana Mushtaq, Nargis Aman, **Muhammad Samie**, Khizar Hussain Shah, Jamshed Iqbal. Synthesis and Biological Evaluation of Amoxicillin Loaded Hybrid Material Composite Spheres Against Methicillin-Resistant *Staphylococcus aureus*. *Current Pharmaceutical Biotechnology* (**IF: 2.829**)
- 6) **Muhammad Samie**\*, Sajid Bashir, Samiullah Khan, Jabbar Abbas, Nargis Aman, Habibullah Jan, Naveed Muhammad. Design, Formulation and *In-vitro* evaluation of sustained release tablet formulations of Levosulpiride. *Turk J Pharm Sci* 2018;15(3): 309-318.
- 7) Jabbar Abbas, Sajid Bashir, **Muhammad Samie**\*, Sadaf Laghari, Nargis Aman, Habibullah Jan, Imran Nazir. Formulation and evaluation of a bilayer tablet comprising of diclofenac potassium as orodispersible layer and diclofenac sodium as sustained release core. *Marmara Pharmaceutical Journal* 21(3): 707-716, 2017.

## PATENTS;

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1) A method for extraction of powdered silk fibroin from Bombyx Mori cocoons using aqueous solution of basic ionic liquid

**Muhammad Samie**, Nawshad Muhammad, Hamad Khalid, and Ather Farooq Khan  
US Patent App. 16/844,070, 2020; US202003319961A1

2) Extraction of powdered silk fibroin from Bombyx Mori cocoons using an aqueous solution of basic ionic liquids

**Muhammad Samie**, Nawshad Muhammad, Hamad Khalid, Ather Farooq Khan  
Pakistan Patent Ref: 239/2019 Filed 18-04-2019

## PROJECTS;

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Working as P.I on a Project (0.3 million) granted by COMSATS University Islamabad entitled;  
**Optimization and Characterization of Biogenic Gold nanoparticles: Study of its Cytotoxic and Anticancer behavior.**

## BOOK CHAPTER;

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Farah Bashir, Nawshad Muhammad, Najmul Hassan Khan, Abdur Rahim, Pervaiz Ahamad, Amir Sada Khan, Zahoor Ullah, **Muhammad Samie**. Ionic liquids as a green solvents for drugs or as an active pharmaceutical ingredient, In: Green Sustainable Process for Chemical and Environmental Engineering and Science: Green Solvents for Biocatalysis. 2021, Elsevier Inc. pp-193-209

## ● LANGUAGE SKILLS

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Mother tongue(s): **PASHTO**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● COMMUNICATION AND INTERPERSONAL SKILLS

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### Communication and interpersonal skills

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Having strong Interpersonal and Communication Skills