



## Dr. ASMATULLAH

Date of birth: 05/03/1989

Nationality: Pakistani

Gender: Male

### CONTACT

Xi'an Jiaotong University,  
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### ABOUT ME

**Dr. Asmatullah** is currently graduated from Xi'an Jiaotong University of Health Science Center. He received his **Doctor of Pharmacy** (Pharm-D) Degree from Faculty of Pharmacy, Gomal University, Pakistan in 2014. He then completed his **M.Phil** in Pharmaceutics from Gomal University Pakistan in 2017, he worked on Microparticle Formulation during his master study. He then got CSC and presidential scholarships from two universities and continue his **PhD study at XJTU**. He works on the molecular mechanism of Natural Alkaloidal Agents in tumor hypoxia. My interest area is the therapeutic effect of natural agents on the molecular level in cancer, especially tumor hypoxia and Cancer Metastasis.

### WORK EXPERIENCE

**01/09/2017 – 17/12/2021** – Xi'an, Shaanxi, China

#### PhD

##### Student

- Ø Cell culture and Preservation
- Ø Flow cytometry Analysis
- Ø Cell scratch assay and Transwell assay
- Ø Colony Forming assay, Hoechst staining
- Ø Reactive Oxygen Species analysis
- Ø pH detection assay
- Ø Cell cycle
- Ø Cell apoptosis
- Ø Immunofluorescence
- Ø immunostaining
- Ø Hypoxia Induction
- Ø Molecular Pathway
- Ø Angiogenesis and Metastasis
- Ø Bioinformatics and various tools
- Ø *In\_vivo* experiment and Animals model
- Ø Kegg pathway and TCGA tools

### EDUCATION AND TRAINING

**01/09/2017 – 17/12/2021** – Xi'an Jiaotong University, Medical Campus, Xi'an, Shaanxi, China

**Ph.D. (Pharmacology) Thesis Title: " Study of Cephalomannine Inhibiting Lung Cancer Growth by Regulating HIF-1 $\alpha$  " Supervisor: Prof. Dr. Zhang Yanmin**

Xi'an Jiaotong University. School of Pharmacy, Health Science Center, Xi'an, China.

<http://en.xjtu.edu.cn/>

**01/04/2014 – 20/01/2017** – Gomal University,, Dera Ismail Khan, Pakistan

**M.Phil (Pharmaceutics) Thesis Title: " Formulation of Loxoprofen Microparticle and its Characterization " Supervisor: Dr. Barkat Ali Khan**

Gomal University, Faculty of Pharmacy, Dera Ismail Khan, KPK, Pakistan.

<http://www.gu.edu.pk/>

01/09/2008 – 11/01/2014 – Gomal University,, Dera Ismail Khan, Pakistan

**Doctor of Pharmacy (Pharm-D) Project Title: “ Side Effect of Anti-TB Drug and Its use as OTC Agent ”  
Project Supervisor: Dr. Shaikh Abdul Rasheed**

Gomal University, Faculty of Pharmacy, Dera Ismail Khan, KPK, Pakistan.

<http://www.gu.edu.pk/>

04/04/2005 – 10/08/2008 – South Wazirstan, South Wazirstan, Pakistan

**Higher Secondary School Certificate (Pre-Medical)**

Government Degree collage Ladha

02/09/2002 – 22/11/2005 – Dera Ismail Khan. KPK. Pkaistan, Dera Ismail Khan, Pakistan

**Secondary school certificate (Science)**

WENSAM collage D.I.Khan

<https://jaamiaah.com/college/university-wensam-college-dera-ismail-khan/>

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Pashto

**OTHER LANGUAGE(S):** English, Urdu

## DIGITAL SKILLS

Microsoft Office Word Power Point Excel / Microsoft Office, Microsoft Word, Microsoft Excel, Outlook, Facebook, Google / Internet user / Responsibility / Motivated / Team-work oriented / Good listener and communicator / Pharmaceutical / Organizational and planning skills / Pharmacology / Research and analytical skills / Critical thinking

## HONOURS AND AWARDS

**01/09/2008**

Diploma in Health Technology – Pera-Medical Institute of Medical Technology, Two Years Health Diploma, Eighteen Month Hospital Work

**01/06/2014**

Got prime minister based scholarship for my M.Phil. study, Prime Minister Based Scholarship

**15/09/2014 (Reg No, 2676-A/2014-PC)**

**Rigester Pharmacist in Pakistan**

Pharmacy Council of KPK Peshwar Pakistan.

**Secured 3rd position in M.Phil. (Pharmaceutics),**

Department of Pharmaceutics, Faculty of pharmacy Gomal University, D.I.Khan, KPK, Pakistan,

**01/09/2017**

Got Chinese Government Scholarship for PhD study, China Scholarship council (CSC) at XJTU

**31/12/2018**

Got Outstanding Doctoral Student of Year 2018 by PUXI Pharmaceutical analysis – Yanmin Zhang Lab. XJTU  
Outstanding Doctoral Student of Year 2018

## CONFERENCES AND SEMINARS

- **Attended a three-day Conference of Pharmacy in Islamabad Pakistan, by Pharmacy Council of Pakistan 2012.**
- **1-week study trip to Malaysia on medicine and Medical Seminar in SAMI Pharmaceutical,**
- **Attended a three day "Silk Road Engineering Science and Technology Development on Advance Medical Science and Technology Development. 15 October 2017**  
> International Knowledge Center for Engineering Sciences and Technology under the Auspices of UNESCO
- **Attended a Seven Day IKCEST "Frontier Development of Medical Science and Technology & Big Data Theory Application"**  
> Xi'an Jiaotong University. Medical Campus
- **Attended a Ten Day IKCEST "Advanced Medical Science and Technology Development"**
- **05/04/2020 – 20/04/2020 > – Xi'an Jiaotong University. Medical Campus**
- **Completed 15 days Lecture Series for Preventing and Controlling COVID-19**
- **01/09/2020 – 16/09/2020 > – NIDA Clinical Trials Network**
- **Completed & Passed the Online Course of GOOD CLINICAL PRACTICE,**
- **Member of (IASLC) International Association for the Study of Lung Cancer.**
- **Member of (AACR) American Association for Cancer Research**

## PUBLICATIONS

- **Cephalomannine inhibits hypoxia-induced cellular function via the suppression of APEX1/HIF-1 $\alpha$  interaction in lung cancer (Cell Death and Disease)**  
**2021** <https://www.nature.com/articles/s41419-021-03771-z>  
**Asmat Ullah**, Sze Wei Leong, Jingjing Wang, Qing Wu, Mohsin Ahmad Ghauri, Ammar Sarwar, Qi Su and Yanmin Zhang
- **Formulation of Loxoprofen Microparticles and its In Vitro Characterization (Latin American Journal of Pharmacy)**  
**2019** [https://www.researchgate.net/publication/336250800\\_Formulation\\_of\\_Loxoprofen\\_Microparticles\\_and\\_its\\_In\\_Vitro\\_Characterization](https://www.researchgate.net/publication/336250800_Formulation_of_Loxoprofen_Microparticles_and_its_In_Vitro_Characterization)  
**Asmat ULLAH**, Altaf A. MANGI, Haroon KHAN, Barkat A. KHAN, Touseef NAWAZ, Muhammad A. SHAHZAD, Awais A. JUNO, Shumaila P. ARAIN

● **Sanguinarine impedes metastasis and causes inversion of epithelial to mesenchymal transition in breast cancer** (Phytomedicine)

2021 <https://pubmed.ncbi.nlm.nih.gov/33626427/>

Mohsin Ahmad Ghauri<sup>++</sup>, Qi Su<sup>++</sup>, **Asmat Ullah**, Jingjing Wang, Ammar Sarwar, Qing Wu, Dongdong Zhang, Yanmin Zhang

● **Cellulose Nanocrystals Applications in Health, Medicine and Catalysis** (Journal of Polymers and the Environment)

2021 <https://link.springer.com/article/10.1007/s10924-021-02045-1>

Tariq Aziz\*, **Asmat Ullah**, Hong Fan, Roh Ullah, Fazal Haq, Farman Ullah Khan, Mudassir Iqbal, Jiao Wei

● **Recent Progress in Silane Coupling Agent with Its Emerging Applications** (Journal of Polymers and the Environment)

2021 <https://link.springer.com/article/10.1007/s10924-021-02142-1>

Tariq Aziz, **Asmat Ullah**, Hong Fan, Muhammad Imran Jamil, Farman Ullah Khan, Roh Ullah, Mudassir Iqbal, Amjad Ali, Bakhtar Ullah

● **Synthesis of Isatin and Its Derivatives and their Applications in Biological System** (Biomed J Sci & Tech Res | BJSTR)

2020 <https://biomedres.us/fulltexts/BJSTR.MS.ID.004991.php>

Tariq Aziz\*, **Asmat Ullah**, Roh Ullah, Fazal Haq, Mudassir Iqbal, Farman Ullah Khan, Muhammad Imran Jamil, Muhammad Raheel, Mehwish Kiran

● **Sanguinarine inhibits epithelial-mesenchymal transition via targeting HIF-1 $\alpha$ /TGF- $\beta$  feed-forward loop in hepatocellular carcinoma** (Cell Death and Disease)

2019 <https://www.nature.com/articles/s41419-019-2173-1>

Qi Su, Mengying Fan, Jingjing Wang, **Asmat Ullah**, Mohsin Ahmad Ghauri, Bingling Dai, Yingzhuan Zhan, Dongdong Zhang, Yanmin Zhang

● **Sanguinarine combats hypoxia-induced activation of EphB4 and HIF-1 $\alpha$  pathways in breast cancer** (Phytomedicine)

2021 <https://pubmed.ncbi.nlm.nih.gov/33636580/>

Qi Su, Jingjing Wang, Qing Wu, **Asmat Ullah**, Mohsin Ahmad Ghauri, Ammar Sarwar, Li Chen, Feng Liu, Yanmin Zhang

● **Sanguinarine impairs lysosomal function and induces ROS dependent mitophagy and apoptosis in human hepatocellular carcinoma cells** (Archives of Pharmacal Research)

2021 <https://pubmed.ncbi.nlm.nih.gov/34751932/>

Jingjing Wang, Qi Su, Qing Wu, Kun Chen, **Asmat Ullah**, Mohsin Ahmad Ghauri, Yanmin Zhang

● **Synthesis and Biological Evaluation of Isatin Based Thiazole Derivatives** (Biomed J Sci & Tech Res | BJSTR)

2020 <https://biomedres.us/pdfs/BJSTR.MS.ID.004704.pdf>

Tariq Aziz\*, Fazal Rahim, Roh Ullah, **Asmat Ullah**, Fazal Haq, Farman Ullah Khan, Mehwish Kiran, Noor Saeed Khattak and Mudassir Iqbal

● **Sanguinarine disrupts the colocalization and interaction of HIF1 $\alpha$  with tyrosine and serine phosphorylated-STAT3 in breast cancer** (Journal of Cellular and Molecular Medicine)

2020 <https://onlinelibrary.wiley.com/doi/full/10.1111/jcmm.15056>  
Qi Su, Jingjing Wang, Mengying Fan, Mohsin Ahmad Ghauri, **Asmat Ullah**, Bo Wang, Bingling Dai, Yingzhuan Zhan, Dongdong Zhang, Yanmin Zhang

● **Advance Study of Cellulose Nanocrystals Properties and Applications** (Journal of Polymers and the Environment)

2020 <https://link.springer.com/article/10.1007/s10924-020-01674-2>  
Tariq Aziz, Hong Fan, Xianwei Zhang, Fazal Haq, **Asmat Ullah**, Roh Ullah, Farman Ullah Khan & Mudassir Iqbal

● **Modification of Cellulose Nanocrystals With 2-Carboxyethyl Acrylate in the Presence of Epoxy Resin for Enhancing its Adhesive Properties** (Frontiers in Bioengineering and Biotechnology)

2021 <https://www.frontiersin.org/articles/10.3389/fbioe.2021.797672/full>

Amjad Ali, Tariq Aziz\*, Jieyuan Zheng, Fan Hong, Mahamed F. Awad, Sehrish Manan, Fazal Haq, **Asmat Ullah**, Muhammad Naeem Shah, Qaiser Javed, Ameer Ali Kubar and Li Guo\*

● **Improving Adhesive Properties of Cellulose Nanocrystals Modifying By 3-Glycidoxypropyltrimethoxy Silane (KH-560) Coupling Agents** (Biomed J Sci & Tech Res | BJSTR)

2021 <https://biomedres.us/fulltexts/BJSTR.MS.ID.005492.php>

Tariq Aziz, Mudassir Iqbal, Roh Ullah, Muhammad Imran Jamil, Muhammad Raheel, Amjad Ali, Farman Ullah Khan, **Asmat Ullah**, Nasrullah Wazir

● **Facile modification and application of cellulose nanocrystals** (Iranian Polymer Journal)

2019 <https://link.springer.com/article/10.1007/s13726-019-00734-2>

Tariq Aziz, Hong Fan, Fazal Haq, Farman Ullah Khan, Ahmed Numan, **Asmat Ullah**, Nasrullah Wazir

● **Synthesis and modification of silica-based epoxy nanocomposites with different sol-gel process enhanced thermal and mechanical properties** (Journal of Applied Applied Polymer Science)

2021 <https://onlinelibrary.wiley.com/doi/10.1002/app.51191>

Tariq Aziz, Sahid Mehmood, Fazal Haq, Roh Ullah, Farman Ullah Khan, Bakhtar Ullah, Muhammad Raheel, Mudassir Iqbal, **Asmat Ullah**

● **Synthesis of Carboxymethyl Starch-BioBased Epoxy Resin and their Impact on Mechanical Properties**

(Zeitschrift für Physikalische Chemie Z Phys Chem)

2019 <https://www.degruyter.com/document/doi/10.1515/zpch-2019-1434/html>

Tariq Aziz\*, Hong Fan, FarmanUllah Khan, RohUllah, Fazal Haq, Mudassir Iqbal and **Asmat Ullah**

● **Adhesive properties of bio-based epoxy resin reinforced by cellulose nanocrystal additives** (Journal of Polymer Engineering)

2020 <https://www.degruyter.com/document/doi/10.1515/polyeng-2019-0255/html>

Tariq Aziz, Hong Fan, Xiangwei Zhang, Farman Ullah Khan, Shah Fahad and **Asmat Ullah**

● **Enhancement in Adhesive and Thermal Properties of Bio-based Epoxy Resin by Using Eugenol Grafted Cellulose Nanocrystals** (Journal of Inorganic and

Organometallic Polymers and Materials)

2021 <https://link.springer.com/article/10.1007/s10904-021-01942-1>

Tariq Aziz, Jieyuan Zheng, Muhammad Imran Jamil, Hong Fan, Roh Ullah, Mudassir Iqbal, Amjad Ali, Farman Ullah Khan, **Asmat Ullah**

● **Synthesis of Starch Ether Grafted, Bio-Based Epoxy Resin and Their Impact on Mechanical Property** (COJ Robotics & Artificial Intelligence)

2019 <https://crimsonpublishers.com/cojra/fulltext/COJRA.000503.php>

Tariq Aziz\*, Farman Ullah Khan, Roh Ullah, Fazal Haq and **Asmat Ullah**

● **Molecular mechanisms of Sanguinarine in cancer prevention and treatment** (Anti-Cancer Agents in Medicinal Chemistry)

2022 <https://www.eurekaselect.com/article/126050>

Asmat Ullah\*, Najeeb Ullah, Touseef Nawaz, Tariq Aziz\*

## RECOMMENDATIONS

● Prof. Dr. Yanmin Zhang – PhD Supervisor

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School of Pharmacy, Health Science Center, Xi'an Jiaotong University, Xi'an, Shaanxi, China.

● Dr. Fateh khattak, Assistant professor

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● Dr. Su Qi – Associate Professor

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