

Dr. Hamad Ali

Assistant professor (Department of Pharmaceutical Sciences)

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Education

Ph.D. (2021): Molecular Medicine (Molecular Pharmacology), Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center of Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan Thesis title: Investigation and Molecular Studies on Fetal Hemoglobin Inducing Drugs for The Pharmacological Management of β -Thalassemia.

M.Phil. (2017): Molecular Medicine (Molecular Pharmacology), Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center of Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan Thesis title: Identification of fetal hemoglobin inducers for the treatment of beta-thalassemia.

Pharm.D. (2014): Department of Pharmacy, University of Peshawar. project title: Pharmacotherapy of bipolar affective disorders.

Professional Experience

1. Teaching experience

- **Assistant Professor (Pharmacology) (1st Nov 2022 - Present)**

Department of Pharmaceutical Sciences, Pak-Austria Fachhochschule: Institute of Applied Sciences & Technology, Mang, Haripur, Khyber Pakhtunkhwa, Pakistan.

- **Assistant Professor (Pharmacology) (9th May 2022 – 31st Oct 2022)**

Department of Basic Medical Sciences, Shifa College of Pharmaceutical Sciences, Shifa Tameer-e-Millat University, Islamabad-44000, Pakistan.

2. Research experience:

- **Research Fellow (July 2018 - Dec 2021)**

Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center of Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan.

- **Jr. Research Fellow (Aug 2014 - Sep 2018)**

Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center of Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan.

3. Industrial Experience

- **Pharmaceutical Quality Assurance Inspector** (Sep 2013-Aug 2014) M.K.B pharmaceuticals private Ltd., Peshawar, Pakistan.

Research Patents

- Repurposing of Acyclovir for the Treatment of β -Thalassemia and Sickle Cell Anemia. Syed Ghulam Musharraf, **Hamad Ali**, Muhammad Iqbal Choudhary, Atta ur Rahman, Patent Application No. 868/2019, Filing date 24-12-2019.
- Repurposing of Tenofovir Disoproxil Fumarate for the Treatment of β -Thalassemia and Sickle Cell Anemia. Syed Ghulam Musharraf, Faisal Khan, **Hamad Ali**, Patent Application No. 445/2020. Filing date 1-7-2020.
- Fetal hemoglobin reactivation activity of cilostazol (6-[4-(1-cyclohexyl-1H-tetrazole-5-yl)butoxy]-3,4-dihydro-2(1H)-quinolinone). Syed Ghulam Musharraf, **Hamad Ali**, Faisal Khan Patent Application No. 232/2021, Filing date 24-03-2021.

10 International Publications in ISI indexed journals, impact factor of **56**, citations **54**, *h*-index **5**

Feature research articles

- **Hamad Ali**, Faisal Khan, and Syed Ghulam Musharraf. "Cilostazol-mediated reversion of γ -globin silencing is associated with a high level of HbF production: A potential therapeutic candidate for β -globin disorders" *Biomedicine and Pharmacotherapy* 142(2021) Aug 13. pp. 112058. DOI:10.1016/j.biopha.2021.112058. ISSN: 0753-3322. **IF = 7.5**
- **Hamad Ali**, Faisal Khan, and Syed Ghulam Musharraf. "Acyclovir induces fetal hemoglobin via downregulation of γ -globin repressors, *BCL11A* and *SOX6* trans-acting factors." *Biochemical Pharmacology* 190(2021) May 16;190: pp. 114612. DOI: 10.1016/j.bcp.2021.114612. ISSN: 0006-2952. **IF = 6.1**
- Nurmeen Adil¹, **Hamad Ali**¹, Amna Jabbar Siddiqui, Arslan Ali, Ayaz Ahmed, Hesham R. El-Seedi, and Syed Ghulam Musharraf. "Evaluation of cytotoxicity of areca nut and its commercial products on normal human gingival fibroblast and oral squamous cell carcinoma cell lines. *Journal of Hazardous Materials*. 403(2021) Feb 5;403: pp. 123872. DOI: 10.1016/j.jhazmat.2020.123872. ISSN: 0304-3894. **IF = 14.224: ¹First author**
- **Hamad Ali**, Fizza Iftikhar, Sarah Shafi, Hina Siddiqui, Ishtiaq Ahmad Khan, M. Iqbal Choudhary, and Syed Ghulam Musharraf. "Thiourea derivatives induce fetal hemoglobin production in-vitro: A new class of potential therapeutic agents for β -thalassemia." *European Journal of Pharmacology* 855(2019) Jul 15: pp.285-293. DOI: 10.1016/j.ejphar.2019.05.027. ISSN: 0014-2999. **IF = 5.195**
- Khan, Faisal, **Hamad Ali**, and Syed Ghulam Musharraf. "Tenofovir disoproxil fumarate-mediated γ -globin induction is correlated with the suppression of trans-acting factors in CD34+ progenitor cells: A role in the reactivation of fetal hemoglobin." *European Journal of Pharmacology* 927(2022), 15 July 2022, 175036. DOI: <https://doi.org/10.1016/j.ejphar.2022.175036>. ISSN: 0014-2999. **IF = 5.195**
- Faisal Khan, **Hamad Ali**, Syed Ghulam Musharraf. Tenofovir disoproxil fumarate induces fetal hemoglobin production in K562 cells and β -YAC transgenic mice: A therapeutic approach for γ -globin induction. *Experimental Cell Research*. 2020 Sep 15;394(2): pp. 112168. DOI: 10.1016/j.yexcr.2020.112168. ISSN: 0014-4827. **IF = 3.905**
- Hamna Shadab, Muhammad Noman Khan, Faraz Ul Haq, **Hamad Ali**, Hesham R. El-Seedi, and Syed Ghulam Musharraf. Cross-mixing study of a poisonous *Cestrum* species, *Cestrum diurnum* in herbal raw material by chemical fingerprinting using LC-ESI-QTOF-MS/MS. *Arabian Journal of Chemistry*, (2020) Nov 1;3(11), pp. 7851-7859. DOI: 10.1016/j.arabjc.2020.09.016. ISSN: 1878-5352. **IF = 6.212**