Dr. Faheem Hyder Pottoo



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Research Output

Total publications-151

Citations-5826

H index-37

i10 index-**85**

Book chapters-29

Review articles-81

Research articles-29

Systematic analysis-12

Google Scholar:

https://scholar.google.com/citations?user=o8SGY

u4AAAAJ&hl=en

Languages

English - C2

Urdu – C2

Hindi – C2

Personal Information

Age: 35 years

Home Address: Shamus Abad, Sector-4,

Bemina, Srinagar, J&K, India

Summary

Highly experienced and accomplished academician & researcher in pharmacology. Skilled in conducting lectures, seminars, and practical sessions for MBBS, Pharm.D, B.Pharm and Nursing undergraduate and postgraduate students. Recognized for delivering innovative solutions and driving advancements in drug discovery. Adept at collaborating with crossfunctional teams and leading projects from concept to completion. Possesses a deep understanding of regulatory compliance, quality assurance, and industry standards. Strong analytical and problem-solving abilities that enable the identification and resolution of complex technical challenges. Excellent communication and presentation skills which facilitate effective collaboration with stakeholders and the dissemination of technical information to diverse audiences. Continually staying abreast of emerging trends and technologies in healthcare.

Novel Drug Combinations Discovered

Raloxifene + Fluoxetine (generalized seizures)

Raloxifene + Fluoxetine + Bromocriptine (partial seizures)

Carbamazepine + Imipramine (generalized seizures)

Piracetam + Diethylstilbestrol (neuroprotective)

Sodium Valproate + Baclofen + Thymoquinone (neuroprotective)

Doxycycline + Ouabain (colon cancer)

Acetazolamide + Furaltadone (colon cancer)

Skill Highlights

Clinical Research
Target Identification
Target Validation
Preclinical Testing
Drug repurposing
Literature Synthesis
Preclinical research
Public Health

Problem-solving & analytical skills Project management

Project managemen Data analysis

Vendor relationship Scientific writing

Collaboration & Innovation

Artificial Intelligence

Education

P.hD (Pharmacology)

2013- 2016

Department of Pharmaceutical Sciences, University of Kashmir, India

M.Pharm (Pharmacology)

2011-2013

2007-2011

Department of Pharmacology, Jamia Hamdard University, India

B.Pharm

Gautam Buddh Technical University, India,

Certificate Courses

Evaluations of AI Applications in Healthcare, Stanford University, USA, 2023

Elements of Artificial Intelligence, University of Helsinki, Finland, 2022



Imam Abdulrahman Bin Faisal University (IAU) Assistant Professor, Department of Pharmacology

Dammam, Saudi Arabia Sep, 2017-continuing

College of Clinical Pharmacy

- ∂ Conducting lectures, seminars, and practical sessions on Pharmacology for MBBS, Pharm D, B.Pharm and Nursing undergraduate and graduate students.
- Establish and implement research strategy to progress pipeline programs to proof of concept
- ∂ Conducting comprehensive literature searches using databases such as PubMed, Embase, Cochrane, and Google Scholar.
- ∂ Identification of novel drug targets for the treatment of cancers and neurological disorders based on the study of signaling pathways.
- ∂ Conducting PK, PD and/or TK studies in rodent species (animal handling, dosing, behavioral studies, anesthesia, surgery, tissue extraction and processing)
- ∂ Discovering novel drug combinations for the treatment of cancers and neurological disorders
- Developing and writing scientific manuscripts, technical reports, and research articles based on data from clinical studies, pre-clinical experiments, and other scientific sources.
- ∂ Collaborating with colleagues on research projects and grant proposals, fostering a collaborative and interdisciplinary research environment.



Imam Abdulrahman Bin Faisal University (IAU) Administration Head, Examinations

Dammam, Saudi Arabia Sep, 2019-Dec, 2022

College of Clinical Pharmacy

- ∂ Assigned exam officers and managed the exam calendar, ensuring smooth scheduling and coordination of exams.
- ∂ Oversaw exam logistics, including preparation and distribution of exam materials, approval of proctors and examiners, and coordination of paperwork.



K.R.Mangalam University
Assistant Professor, Department of Pharmacy
School of Medical and Allied Sciences

Gurgaon, India Sep, 2016 – August, 2017

- ∂ Conducted independent research projects in Pharmacology, investigating the mechanisms of action and toxicity of novel drug candidates using in vivo and in vitro models.
- Designed and executed experiments, analyzed data, and interpreted results, contributing to the publication of research articles in peer-reviewed journals.
- Presented research findings at departmental seminars, conferences, and scientific meetings.
- ∂ Conducted health camps at different locations



Dawakhana Al-Hayat Trainee, R&D Department Srinagar, India June, 2009-August, 2009

- ∂ Assisted in the development of new herbal formulations by conducting research and performing experiments under the guidance of senior scientists.
- Occilected and analyzed data from experiments and provided accurate reports on findings.
- Participated in the development and optimization of manufacturing processes for herbal formulations.

| OTHER PROFESSIONAL EXPERIENCE | | | | | |
|-------------------------------|--------------|-------------------------------------------------|----------------------------------------------------------------------------|--------------|--|
| From (year) | To (year) | Position | Employer | Country | |
| 2022 | Continuing | Member Exam Quality Unit | College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University | Saudi Arabia | |
| 2022 | Continuing | Member-PG program committee | College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University | Saudi Arabia | |
| 2022 | Continuing | Member-curriculum committee | College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University | Saudi Arabia | |
| 2022 | Continuing | Member-lab council | College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University | Saudi Arabia | |
| 2018 | Continuing | Member-research committee | College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University | Saudi Arabia | |
| 2017 | Continuing | Academic advisor | College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University | Saudi Arabia | |
| 2017 | 2020 | Executive-Member- accreditation committee | College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University | Saudi Arabia | |
| 2016 | 2017 | Incharge-animal house | Department of Pharmacy, K.R.Mangalam University | India | |
| 2016 | 2017 | Warden-Hostel | Department of Pharmacy, K.R.Mangalam University | India | |

WORKSHOPS

- Team based learning: the implementation and experiences in pharmacy curriculum workshop,
 Imam Abdulrahman Bin Faisal University, January 24, 2023
- Workshop: Assessing Project & Field Training, Imam Abdulrahman Bin Faisal University, January 10, 2023
- Tools for Written Assessment for Health Professions Colleges, College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University, October 11, 2022
- Biotechnology: Tools and Techniques, Department of Microbiology, College Medicine, Imam Abdulrahman Bin Faisal University, June 01, 2022
- CLOs and PLOs calculation, Deanship of Quality and Accreditation, Imam Abdulrahman Bin Faisal University, May 17, 2022
- Social Responsibility Bank Workshop, Deanship of community service, Imam Abdulrahman Bin Faisal University, April 19, 2022
- PeopleSoft training workshop, College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University, March 8, 2022
- Academic Advising Workshop, College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University, November 16, 2021
- Effective Strategies for Team Based Learning, Professional Development Unit (PDU) at College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University, November 9, 2021
- Workshop for Assessment of Course Learning Outcomes, College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University, September 29, 2020
- Advanced Multiple-Choice Questions to Test Higher Order Thinking Skills, Professional Development Unit (PDU) at College of Clinical Pharmacy in collaboration with Deanship of Academic Development, Imam Abdulrahman Bin Faisal University February 25, 2020.

- 21st Century Skills in the Classroom, Professional Development Unit (PDU) at College of Clinical Pharmacy in collaboration with Deanship of Academic Development, Imam Abdulrahman Bin Faisal University January 28, 2020
- Risk management workshop, Risk management Unit Deanship of Quality and Academic Accreditation, Imam Abdulrahman Bin Faisal University November 6, 2019
- Questioning to Develop Higher-Order Thinking Skills, Professional Development Unit (PDU) at College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University October 8, 2019
- Key performance indicators and benchmarking, EEC-NCAAA in collaboration with Imam Abdulrahman Bin Faisal University, February 13-14, 2019
- Assessment of course learning outcomes, College of Clinical Pharmacy, Imam Abdulrahman Bin Faisal University, December 24, 2018
- Principles of Questions Writing, Imam Abdulrahman Bin Faisal University, February 14, 2018.
- Using and creating effective rubrics, College of Clinical Pharmacy in collaboration with Deanship of Education Development, Imam Abdulrahman Bin Faisal University November 21, 2017.
- Assessment of Learning Outcomes, EEC-NCAAA in collaboration with Imam Abdulrahman Bin Faisal University, October 8-9, 2017.

HONORS & AWARDS

| Featured among top 2% of world scientists by Stanford University | 2022 & 2023 |
|---------------------------------------------------------------------------|-------------|
| 1st Rank University Presidents List of Distinguished Researchers from IAU | 2020 |
| Senior Research Fellowship Award from Indian Council of Medical Research | 2013-2016 |
| 3 rd Rank Clin-Quiz | 2012 |
| Student of the Year Award | 2011 |
| Graduate Pharmacy Aptitude Test (GPAT) @ 99.06 percentile | 2011 |

GRANTS

Nano-enabled targeted delivery of Osimertinib + miR-7 + anti-miR-21 for the treatment of Glioblastoma Multiforme (\$24,000/PI) from DSR, IAU, 2020-2021.

In Silico and Pharmacological Screening of Existing Drugs against PPARγ and FFAR1 (\$93,000/PI) from MOE, Saudi Arabia, 2020-2022.

Development of a prototype for selective dual CYP26/HDAC inhibition with improved target selectivity for the treatment of neuroblastoma (\$52,000/CO-PI) from DSR, IAU, 2019-2021.

PUBLICATIONS

| Guest Editor-Bentham Sciences | | |
|-----------------------------------------------------------------------------------|-----------|--|
| CNS Neurological disorders-Drug Targets | 2020-2021 | |
| ∂ Recent advancements in the Chemistry of Novel CNS drugs | | |
| Current Molecular Pharmacology | | |
| ∂ An athletic guide of brain functional nutraceutical supplement | | |
| Current Neuropharmacology | 2020-2021 | |
| ∂ Critical appraisals on Neuron-Glia interactions in Neurological Disorders | | |
| Book Editor - Springer | | |
| Phytopharmaceuticals in Neurodegenerative Disorders Tradition, Science and Trends | 2022-2023 | |
| MicroRNAs in Neurological Disorders: From Diseases to Treatment | 2022-2023 | |

RESEARCH ARTICLES (10 of 29)

- 1. **Pottoo FH**, Salahuddin M, Khan FA, Alsaeed WJ, Albaqshi BT, Rahman JU, Gomaa MS, Salama I, Alomary MN, Beigh S. Therapeutic enhancing potential of piracetam with diethylstilbestrol in prevention of grand-mal seizures in rats: inhibition of PI3K/Akt/mTOR signaling pathway and IL-1β, IL-6, TNF-α cytokines levels. Eur Rev Med Pharmacol Sci. 2023 May;27(10):4735-4751. doi: 10.26355/eurrev 202305 32485..
- Pottoo, F.H.; Salahuddin, M.; Khan, F.A.; AL Dhamen, M.A.; Alsaeed, W.J.; Gomaa, M.S.; Vatte, C.; Alomary, M.N. Combinatorial Regimen of Carbamazepine and Imipramine Exhibits Synergism against Grandmal Epilepsy in Rats: Inhibition of Pro-Inflammatory Cytokines and PI3K/Akt/MTOR Signaling Pathway. *Pharmaceuticals* 2021, 14, 1204, doi:10.3390/ph14111204.
- 3. 3 **Pottoo, F.H.**; Salahuddin, M.; Khan, F.A.; Alomar, F.; Al Dhamen, M.A.; Alhashim, A.F.; Alqattan, H.H.; Gomaa, M.S.; Alomary, M.N. Thymoquinone Potentiates the Effect of Phenytoin against Electroshock-Induced Convulsions in Rats by Reducing the Hyperactivation of m-TOR Pathway and Neuroinflammation: Evidence from In Vivo, In Vitro and Computational Studies. *Pharmaceuticals (Basel)* **2021**, *14*, 1132, doi:10.3390/ph14111132.
- Ahmad, G.; Mir, S.A.; Anand, L.K.; Pottoo, F.H.; Dhiman, N.; Malik, F.; Ali, A. Myricanol-9-Acetate, a Novel Naturally Occurring Derivative of Myricanol, Induces ROS-Dependent Mitochondrial-Mediated Apoptosis in MCF-7 Cancer Cells. *Current Topics in Medicinal Chemistry* 2021, 21, 1418–1427, doi:10.2174/1568026621666210615151358.
- Aboelmagd, A.; El Rayes, S.M.; Gomaa, M.S.; Fathalla, W.; Ali, I.A.; Nafie, M.S.; Pottoo, F.H.; Khan, F.A.; Ibrahim, M.M. Synthesis and Cytotoxic Activity of Novel Metal Complexes Derived from Methyl-3-(4-Chlorophenyl)-3-Hydroxy-2, 2-Dimethylpropanoate as Potential CDK8 Kinase Inhibitors. ACS omega 2021, 6, 5244–5254.
- AbuAlsaud, Z.; Alshayban, D.; Joseph, R.; Pottoo, F.H.; Lucca, J.M. Off-Label Medications Use in the Eastern Province of Saudi Arabia: The Views of General Practitioners, Pediatricians, and Other Specialists. Hospital Pharmacy 2020, 55, 37–43, doi:10.1177/0018578718817861.
- 7. Nawaz, F.; Alam, O.; Perwez, A.; Rizvi, M.A.; Naim, M.J.; Siddiqui, N.; **Pottoo, F.H.**; Jha, M. 3'-(4-(Benzyloxy)Phenyl)-1'-Phenyl-5-(Heteroaryl/Aryl)-3,4-Dihydro-1'H,2H-[3,4'-Bipyrazole]-2-Carboxamides as EGFR Kinase Inhibitors: Synthesis, Anticancer Evaluation, and Molecular Docking Studies. *Archiv der Pharmazie* **2020**, *353*, 1900262, doi:10.1002/ardp.201900262.
- 8. **Pottoo, F.H.**; Alshayban, D.M.; Joseph, R.; Al-Musa, F.; Al-Jabran, O.; Aljaafari, D. Impact of Adherence to Antiepileptic Medications on Quality of Life of Epileptic Patients in the Eastern Province of Saudi Arabia: A Cross-Sectional Study. *Imam Journal of Applied Sciences* **2020**, *5*, 1, doi:10.4103/ijas.ijas_14_19.
- Alshayban, D.M.; Joseph, R.; Alajmi, N.M.; Almarzooq, L.Y.; Altamimi, W.N.; Pottoo, F.H. The Heath Related Quality of Life (HRQOL) for Hypertensive Patients in Eastern Province In Saudi Arabia: Cross Sectional Study. *Int J Pharm Sci Res* 2019, 5573–5578.
- Pottoo, F.H.; Al-Khalifa, F.; Al-Hassar, F.; Al-Muhanna, S.; Al-Ghamdi, M.; Aljaafari, D.; Joseph, R. Antiepileptic Drugs: Prescription Pattern, Hematobiochemical Changes and Adverse Effects: A Retrospective Study in Eastern Province of Saudi-Arabia. *Int J Pharm Sci Res.* 2019, 5146–5153.

REVIEW ARTICLES (10 of 81)

- 1. Gupta P, Singh A, Shafi S, Ralli T, **Pottoo FH,** Sultana Y, Kohli K. Cannabis Sativa in Phytotherapy: Reappraisal of Therapeutic Potential and Regulatory Aspects. Curr Pharm Biotechnol. 2023 May 8. doi: 10.2174/1389201024666230508142114. Epub ahead of print. PMID: 37157219.
- 2. **Pottoo FH,** Ibrahim AM, Alammar A, Alsinan R, Aleid M, Alshehhi A, Alshehri M, Mishra S, Alhajri N. Thymoquinone: Review of Its Potential in the Treatment of Neurological Diseases. *Pharmaceuticals*. 2022; 15(4):408.
- 3. Khan FA, Albalawi R, **Pottoo FH**. Trends in targeted delivery of nanomaterials in colon cancer diagnosis and treatment. Med Res Rev. 2022;42(1):227-258.
- Pottoo FH, Javed MN, Rahman JU, Abu-Izneid T, Khan FA. Targeted delivery of miRNA based therapeuticals in the clinical management of Glioblastoma Multiforme. Semin Cancer Biol. 2021; 69:391-398.
- 5. **Pottoo FH**, Abu-Izneid T, Mohammad Ibrahim A, Noushad Javed M, AlHajri N, Hamrouni AM. Immune system response during viral Infections: Immunomodulators, cytokine storm (CS) and Immunotherapeutics in COVID-19. Saudi Pharm J. 2021;29(2):173-187.
- 6. **Pottoo FH**, Barkat MA, Harshita, Ansari MA, Javed MN, Sajid Jamal QM, Kamal MA. Nanotechnological based miRNA intervention in the therapeutic management of neuroblastoma. Semin Cancer Biol. 2021; 69:100-108.
- 7. **Pottoo FH**, Iqubal A, Iqubal MK, Salahuddin M, Rahman JU, AlHajri N, Shehadeh M. miRNAs in the Regulation of Cancer Immune Response: Effect of miRNAs on Cancer Immunotherapy. Cancers (Basel). 2021;13(23):6145.
- 8. **Pottoo FH**, Sharma S, Javed MN, Barkat MA, Harshita, Alam MS, Naim MJ, Alam O, Ansari MA, Barreto GE, Ashraf GM. Lipid-based nanoformulations in the treatment of neurological disorders. Drug Metab Rev. 2020;52(1):185-204.
- 9. Ibrahim AM, **Pottoo FH***, Dahiya ES, Khan FA, Kumar JBS. Neuron-glia interactions: Molecular basis of alzheimer's disease and applications of neuroproteomics. Eur J Neurosci. 2020;52(2):2931-2943.
- 10. **Pottoo FH**, Javed MN, Barkat MA, Alam MS, Nowshehri JA, Alshayban DM, Ansari MA. Estrogen and Serotonin: Complexity of Interactions and Implications for Epileptic Seizures and Epileptogenesis. Curr Neuropharmacol. 2019;17(3):214-231.

SYSTEMATIC ANALYSIS (10 OF 12)

- Abbasi-Kangevari, M.; Saeedi Moghaddam, S.; Ghamari, S.-H.; Azangou-Khyavy, M.; Malekpour, M.-R.; Rezaei, N.; Rezaei, N.; Kolahi, A.-A.; **Pottoo, F.H.**; et al., GBD 2019 NAME Prostate Cancer Collaborators; Amini, E.; et al. The Burden of Prostate Cancer in North Africa and Middle East, 1990-2019: Findings from the Global Burden of Disease Study. Front Oncol 2022, 12, 961086, doi:10.3389/fonc.2022.961086.
- Nichols, E.; Steinmetz, J.D.; Vollset, S.E.; Fukutaki, K.; Chalek, J.; Abd-Allah, F.; Abdoli, A.; Abualhasan, A.; Abu-Gharbieh, E.; Akram, T.T.; Pottoo, F.H et al. Estimation of the Global Prevalence of Dementia in 2019 and Forecasted Prevalence in 2050: An Analysis for the Global Burden of Disease Study 2019. The Lancet Public Health 2022, 7, e105–e125, doi:10.1016/S2468-2667(21)00249-8.

- 3. Nichols, E.; Abd-Allah, F.; Abdoli, A.; Abualhasan, A.; Abu-Gharbieh, E.; Afshin, A.; Akinyemi, R.O.; Alanezi, F.M.; Alipour, V.; Almasi-Hashiani, A.; **Pottoo, F.H** et al. Use of Multidimensional Item Response Theory Methods for Dementia Prevalence Prediction: An Example Using the Health and Retirement Survey and the Aging, Demographics, and Memory Study. BMC Med Inform Decis Mak 2021, 21, 241, doi:10.1186/s12911-021-01590-y.
- 4. Cork, M.A.; Henry, N.J.; Watson, S.; Croneberger, A.J.; Baumann, M.; Letourneau, I.D.; Yang, M.; Serfes, A.L.; Abbas, J.; Abbasi, N.; **Pottoo, F.H** et al. Mapping Subnational HIV Mortality in Six Latin American Countries with Incomplete Vital Registration Systems. BMC Medicine 2021, 19, doi:10.1186/s12916-020-01876-4.
- Ward, J.L.; Azzopardi, P.S.; Francis, K.L.; Santelli, J.S.; Skirbekk, V.; Sawyer, S.M.; Kassebaum, N.J.; Mokdad, A.H.; Hay, S.I.; Abd-Allah, F.; Pottoo, F.H et al. Global, Regional, and National Mortality among Young People Aged 10–24 Years, 1950–2019: A Systematic Analysis for the Global Burden of Disease Study 2019. The Lancet 2021, 398, 1593–1618, doi:10.1016/S0140-6736(21)01546-4.
- Kinyoki, D.; Osgood-Zimmerman, A.E.; Bhattacharjee, N.V.; Kassebaum, N.J.; Hay, S.I. Pottoo, F.H et al., Anemia Prevalence in Women of Reproductive Age in Low- and Middle-Income Countries between 2000 and 2018. Nat Med 2021, 27, 1761–1782, doi:10.1038/s41591-021-01498-0.
- Galles, N.C.; Liu, P.Y.; Updike, R.L.; Fullman, N.; Nguyen, J.; Rolfe, S.; Sbarra, A.N.; Schipp, M.F.; Marks, A.; Abady, G.G.; Pottoo, F.H et al. Measuring Routine Childhood Vaccination Coverage in 204 Countries and Territories, 1980–2019: A Systematic Analysis for the Global Burden of Disease Study 2020, Release 1. The Lancet 2021, 398, 503–521, doi:10.1016/S0140-6736(21)00984-3.
- Sartorius, B.; VanderHeide, J.D.; Yang, M.; Goosmann, E.A.; Hon, J.; Haeuser, E.; Cork, M.A.; Perkins, S.; Jahagirdar, D.; Schaeffer, L.E.; Pottoo, F.H et al. Subnational Mapping of HIV Incidence and Mortality among Individuals Aged 15–49 Years in Sub-Saharan Africa, 2000–18: A Modelling Study. The Lancet HIV 2021, 8, e363–e375, doi:10.1016/S2352-3018(21)00051-5.
- 9. Collaborators, G. 2019 Global Mortality from Dementia: Application of a New Method and Results from the Global Burden of Disease Study 2019. Alzheimer's & Dementia: Translational Research & Clinical Interventions 2021, 7, e12200, doi:10.1002/trc2.12200.
- Abbafati, C.; Machado, D.B.; Cislaghi, B.; Salman, O.M.; Karanikolos, M.; McKee, M.; Abbas, K.M.; Brady, O.J.; Larson, H.J.; Trias-Llimós, S.; Pottoo, F.H et al. Five Insights from the Global Burden of Disease Study 2019. The Lancet 2020, 396, 1135–1159, doi:10.1016/S0140-6736(20)31404-5

REFERENCES

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College: College of Clinical Pharmacy Location: Dammam, Saudi Arabia Email: dahussein@iau.edu.sa

Al-Faisal University

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Position: Dean

College: College of Pharmacy Location: Riyadh, Saudi Arabia Email: malem@iau.edu.sa