

# HUSSAIN NASSER ALHAMAMI, PH.D.

**Assistant Professor**  
**Department of Pharmacology and Toxicology**  
**College of Pharmacy, King Saud University**  
**Office: Bldg. 23, 1<sup>st</sup> floor, Room 1A7**  
**Tel (office): +966114694081**  
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**Email: halhamami@ksu.edu.sa**

## **Education:**

- Dec 2018 Doctor of Philosophy degree in Pharmacy, College of Pharmacy, University of Louisiana at Monroe, Monroe, LA, USA.
- Jan 2012 Bachelor's degree of Pharmaceutical Sciences, College of Pharmacy, King Saud University, Riyadh, Kingdom of Saudi Arabia.

## **Work Experiences:**

- Feb 2019 – present, Assistant Professor, Pharmacy College, King Saud University.
- Nov 2012 – Feb 2019, Teaching Assistant, Pharmacy College, King Saud University.
- Jun 2012 – Nov 2012, Pharmacist II, Pharmacovigilance Department, Saudi Food and Drug Authority (SFDA), Riyadh, Saudi Arabia.
- Apr 2012 – Jun 2012, Pharmacist II, King Fahad Medical City, Riyadh, Saudi Arabia.

## **Professional Memberships and Administrative Responsibilities:**

- Aug 2024 – present, Vice Dean of The Deanship of Libraries Affairs for Libraries Affairs, King Saud University.
- Sep 2022 – Aug 2023, Supervisor of the Outstanding and Gifted Students Program at the College of Pharmacy, King Saud University.
- July 2021 – Aug 2023, Assistant Supervisor of the Academic Advising Unit at the College of Pharmacy, King Saud University.
- July 2021 – Aug 2022, Member of the Advisory Board of the Community Relations Office, University Vice Presidency for Planning and Development, King Saud University.
- Aug 2021 – Aug 2022, Head of the Quality and Development Affairs Committee in the department.
- Aug 2021 – until now, Member of the research proposals and dissertations committee for postgraduate students in the department.
- Aug 2021 – Aug 2022, Member of the Department's Postgraduate Program Development Committee.
- Aug 2021 – until now, Member of the department's faculty member evaluation controls committee.
- Jan 2020 – Dec 2020, Director of the Innovation and Entrepreneurship Unit in the College of Pharmacy, King Saud University.
- Aug 2020 – Aug 2021, Member of the committee for developing plans and curricula for postgraduate studies in the department.
- Aug 2020 – Aug 2021, Member of the committee for evaluating and approving course plans in the department.
- Jan 2019 – until now, Member of the Pharmacology and Toxicology Department Council.
- Feb 2011 – until now, Saudi Pharmaceutical Society (SPS).
- Nov 2010 – Feb 2013, Pharmacist with an Impact" PHACT" group (Volunteer Group ).

## **Professional Symposiums:**

- May 2024 Scientific Research Day for the College of Pharmacy, King Saud University (Poster judging)
- Jan 2024 Saudi International Pharmaceutical Sciences Meeting & Workshops, Riyadh, Saudi Arabia.

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July 2023	The Launchpad VS The Invisible hands, MISK Foundation, Riyadh, Saudi Arabia
May 2023	Scientific Research Day for the College of Pharmacy, King Saud University (Participation with a poster)
Jan 2023	Saudi International Pharmaceutical Sciences Meeting & Workshops, Riyadh, Saudi Arabia.
May 2022	Scientific Research Day for the College of Pharmacy, King Saud University (Poster judging)
Feb 2022	Research Roadmap Series, College of Medicine, King Saud University (Speaker and Chairman of the organizing committee).
Jan 2022	Saudi International Pharmaceutical Sciences Meeting & Workshops, Riyadh, Saudi Arabia.
Feb 2021	Research Roadmap Series, College of Medicine, King Saud University (Speaker and Chairman of the organizing committee).
May 2021	Scientific Research Day for the College of Pharmacy, King Saud University
Jan 2021	Saudi International Pharmaceutical Sciences Meeting & Workshops, Riyadh, Saudi Arabia.
May 2020	Scientific Research Day for the College of Pharmacy, King Saud University
Jan 2020	Saudi International Pharmaceutical Sciences Meeting & Workshops, Riyadh, Saudi Arabia.
May 2019	Scientific Research Day for the College of Pharmacy, King Saud University
Nov 2018	Society for Neuroscience, Washington, DC, USA (Poster).
Apr 2018	Students Research Symposium, University of Louisiana at Monroe, Monroe, LA, USA (Speaker).
Apr 2017	Students Research Symposium, University of Louisiana at Monroe, Monroe, LA, USA (Speaker).
Apr 2016	Students Research Symposium, University of Louisiana at Monroe, Monroe, LA, USA (poster. 1st place Winner).
Oct 2011	6th Riyadh International Pharmacy Meeting and Exhibition, Riyadh College For Density & Pharmacy, Riyadh, Saudi Arabia.
Oct 2011	Pharmacy Informatics and Automation; Pursuing Optimum Patient Outcomes, King Faisal Specialist Hospital, Riyadh, Saudi Arabia.
Apr 2010	The 8th Saudi International Pharmaceutical Conference and Exhibition, Riyadh, Saudi Arabia.

### **Lab Skills:**

- Stereotaxic surgery.
- Immunohistochemistry.
- Western Blotting.
- Laser Capture Microdissection (LCM).
- Brains Cryosectioning.
- Radioimmunoassay (RIA).
- Analysis by GraphPad Prism, SigmaPlot, and Excel.

### **Volunteer Activities (as a student):**

- Nov 2012      Participation in a campaign called “ Ask the Pharmacist “ , Hayat Mall, Riyadh. Saudi Arabia.

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- Mar 2012 Participation in a campaign called “ CaD” about the benefits of Vitamin D and Calcium, Al Faisaliah Mall, Riyadh, Saudi Arabia.
- May 2011 Participation in organizing The Blood Donation International Day, King Khalid University Hospital, Riyadh, Saudi Arabia.
- Apr 2011 Total Parenteral Nutrition – Workshop, College of Pharmacy, King Saud University. Riyadh, Saudi Arabia.
- Jan 2011 Participation in organizing The First Research Day of The Pharmacy College, King Saud University, Riyadh, Saudi Arabia.
- Feb 2011 Participation in a campaign called “ Together “ for cancer patients, King Fahad Medical City, Riyadh, Saudi Arabia.
- Dec 2010 Participation in a campaign called “ Your Knowledge Protects You” , Hayat Mall, Riyadh, Saudi Arabia.

## **Training Courses and Workshops:**

- July 2024 – Oct 2024, Join the MVPlab Initiative by submitting a startup project in the field of developing educational technologies in the health sector. The National Information Technology Development Program
- Apr 2024 – June 2024, Project Management Professional (PMP), Project Management Institute (PMI).
- Jun 2023 – Sep 2023, MISK Entrepreneurship, MISK Launchpad (participation in sessions and workshops, development of a pitch deck, and minimal viable product), Riyadh, Saudi Arabia.
- Sep 2022 Providing a workshop to teach the Western Blot research technique to undergraduate students, College of Pharmacy at King Saud University..
- Jun 2022 – Aug 2022, Training students in research techniques, summer training, College of Pharmacy at King Saud University.
- Jun 2021 – Aug 2021, Training students in research techniques, summer training, College of Pharmacy at King Saud University.
- 30th Aug – 4th Sep 2020, Training of trainers (TOT) for the creative trainers using CREATIVE model, Education center for Professional Development, College of Education, King Saud University.
- Feb 2020 – May 2020, Training students in Research Assistant Internship Program, Deanship of Scientific Research at King Saud University.
- Aug 2014 – Sep 2018, Various training courses in different research techniques, School of Pharmacy, University of Louisiana at Monroe, USA.
- Sep 2013 – Mar 2014, International Business Program at University of Washington, Seattle, USA.
- Mar 2013 – Sep 2013, Intensive English Language Program at University of Washington, Seattle, USA.
- June 2011 Summer training in The Health House Community Pharmacy, Riyadh, Saudi Arabia.
- May 2011 First Aid (CPR) course from Prince Naïf First Aid Program, Riyadh, Saudi Arabia.
- June 2009 Intensive English course from Eurocentres School, Cambridge, The UK.
- June 2008 Intensive English course from English In York School, York, The UK.

## **List of Publications:**

## HUSSAIN NASSER ALHAMAMI, PH.D.

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1. **Alhamami, H. N.**, Albogami, A. M., Algahtani, M. M., Alqinyah, M., Alanazi, W. A., Alasmari, F., ... & Alhamed, A. S. (2024). The effect of inhibiting hindbrain A2 noradrenergic neurons by 6-Hydroxydopamine on lipopolysaccharide-treated male rats autistic animal model. *Saudi Pharmaceutical Journal*, 32(3), 101964.
2. Qadri, M., Khired, Z., Alaqi, R., Elsayed, S., Alarifi, A., Ahmed, R., **Alhamami, H. N.**, ... & Hakami, W. (2024). Zerumbone reduces TLR2 stimulation-induced M1 macrophage polarization pattern via upregulation of Nrf-2 expression in murine macrophages. *Saudi Pharmaceutical Journal*, 32(3), 101956.
3. Alhazzani, K., Almangour, A., Alsalem, A., Alqinyah, M., Alhamed, A. S., **Alhamami, H. N.**, & Alanazi, A. Z. (2023). Examining the Effects of Dasatinib, Sorafenib, and Nilotinib on Vascular Smooth Muscle Cells: Insights into Proliferation, Migration, and Gene Expression Dynamics. *Diseases*, 11(4), 147.
4. Alqinyah, M., Alhamed, A. S., Alnefaie, H. O., Algahtani, M. M., Badr, A. M., Albogami, A. M., **Alhamami, H. N.**, ... & Alsaidan, O. A. (2023). Targeting store-operated calcium entry regulates the inflammation-induced proliferation and migration of breast cancer cells. *Biomedicines*, 11(6), 1637.
5. Alanazi, A. Z., Al-Rejaie, S. S., Ahmed, M. M., Alhazzani, K., Alhosaini, K., Sobeai, H. M. A., **Alhamami, H. N.**, ... & Mohany, M. (2023). Protective role of Dodonaea viscosa extract against streptozotocin-induced hepatotoxicity and nephrotoxicity in rats. *Saudi Pharmaceutical Journal*, 31(8), 101669.
6. Alqinyah, M., Alhamed, A. S., Alnefaie, H. O., Algahtani, M. M., Badr, A. M., Albogami, A. M., **Alhamami, H. N.**, ... & Alsaidan, O. A. (2023). Targeting Store-Operated Calcium Entry Regulates the Inflammation-Induced Proliferation and Migration of Breast Cancer Cells. *Biomedicines*, 11(6), 1637.
7. Ahmed, R. A., Alam, M. F., Alshahrani, S., Jali, A. M., Qahl, A. M., Khalid, M., **Alhamami, H. N.**, ... & Anwer, T. (2023). Capsaicin Ameliorates the Cyclophosphamide-Induced Cardiotoxicity by Inhibiting Free Radicals Generation, Inflammatory Cytokines, and Apoptotic Pathway in Rats. *Life*, 13(3), 786.
8. Alhamed, A. S., Alqinyah, M., Alsufayan, M. A., Alhaydan, I. A., Alasmrri, Y. A., Alnefaie, H. O., **Alhamami, H. N.**, ... & Alanazi, A. Z. (2023). Blockade of store-operated calcium entry sensitizes breast cancer cells to cisplatin therapy via modulating inflammatory response. *Saudi Pharmaceutical Journal*, 31(2), 245-254.
9. Alanazi, W. A., **Alhamami, H. N.**, Alshamrani, A. A., Algahtani, F., Alshammari, A., Alhazzani, K., & Alswayyed, M. (2023). Valsartan prevents gefitinib-induced lung inflammation, oxidative stress, and alteration of plasma metabolites in rats. *Saudi Journal of Biological Sciences*, 30(2), 103522.
10. Alanazi, W. A., **Alhamami, H. N.**, Alharbi, M., Alhazzani, K., Alanazi, A. S., Alsanea, S., ... & Alswayyed, M. (2022). Angiotensin II type 1 receptor blockade attenuates gefitinib-induced cardiac hypertrophy via adjusting angiotensin II-mediated oxidative stress and JNK/P38 MAPK pathway in a rat model. *Saudi Pharmaceutical Journal*, 30(8), 1159-1169.
11. Ibrahim, M. M., Bheemanapally, K., **Alhamami, H. N.**, (co-first) & Briski, K. P. (2020). Effects of Intracerebroventricular Glycogen Phosphorylase Inhibitor CP-316,819 Infusion on Hypothalamic

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Glycogen Content and Metabolic Neuron AMPK Activity and Neurotransmitter Expression in Male Rat. *Journal of Molecular Neuroscience*, 1-12.

12. Ali, M. H., Napit, P. R., Mahmood, A. H., Bheemanapally, K., **Alhamami, H. N.**, Uddin, M. M., ... & Briski, K. P. (2019). Hindbrain estrogen receptor regulation of ventromedial hypothalamic glycogen metabolism and glucoregulatory transmitter expression in the hypoglycemic male rat. *Neuroscience*, 409, 253-260.
13. Imam, F., Al-Harbi, N. O., Khan, M. R., Qamar, W., Alharbi, M., Alshamrani, A. A., **Alhamami, H. N.**, ... & Alharbi, K. S. (2019). Protective Effect of RIVA Against Sunitinib-Induced Cardiotoxicity by Inhibiting Oxidative Stress-Mediated Inflammation: Probable Role of TGF- $\beta$  and Smad Signaling. *Cardiovascular Toxicology*, 1-10.
14. **Alhamami, H. N.**, Uddin, M. M., Mahmood, A. H., & Briski, K. P. (2018). Lateral but not Medial Hypothalamic AMPK Activation Occurs at the Hypoglycemic Nadir in Insulin-injected Male Rats: Impact of Caudal Dorsomedial Hindbrain Catecholamine Signaling. *Neuroscience*, 379, 103-114.
15. **Alhamami, H. N.**, Alshamrani, A., & Briski, K. P. (2017). Inhibition of glycogen phosphorylase stimulates ventromedial hypothalamic nucleus AMP-activated protein kinase: Activity and neuronal nitric oxide synthase protein expression in male rats. *Physiological reports*, 5(23), e13484.
16. Ibrahim, M. M., **Alhamami, H. N.**, & Briski, K. P. (2019). Norepinephrine Regulation of Ventromedial Hypothalamic Nucleus Metabolic Transmitter Biomarker and Astrocyte Enzyme and Receptor Expression: Impact of 5'AMP-Activated Protein Kinase. *Brain Research*.
17. Mandal, S. K., Shrestha, P. K., Alenazi, F. S., Shakya, M., **Alhamami, H. N.**, & Briski, K. P. (2018). Effects of estradiol on lactoprotic signaling of the hindbrain upon the contraregulatory hormonal response and metabolic neuropeptide synthesis in hypoglycemic female rats. *Neuropeptides*.
18. Fakhruddin, S., Alanazi, W. A., **Alhamami, H. N.**, Briski, K. P., & Jackson, K. E. (2018). Hyperglycaemia induced by chronic ip and oral glucose loading leads to hypertension through increased Na<sup>+</sup> retention in proximal tubule. *Experimental physiology*, 103(2), 236-249.
19. Mahmood, A. H., Uddin, M. M., Ibrahim, M. M. H., Mandal, S. K., **Alhamami, H. N.**, & Briski, K. P. (2018). Sex differences in forebrain estrogen receptor regulation of hypoglycemic patterns of counter-regulatory hormone secretion and ventromedial hypothalamic nucleus glucoregulatory neurotransmitter and astrocyte glycogen metabolic enzyme expression. *Neuropeptides*, 72, 65-74.
20. Briski, K. P., **Alhamami, H. N.**, Alshamrani, A., Mandal, S. K., Shakya, M., & Ibrahim, M. H. (2017). Sex Differences and Role of Estradiol in Hypoglycemia-Associated Counter-Regulation. In *Sex and Gender Factors Affecting Metabolic Homeostasis, Diabetes and Obesity* (pp. 359-383). Springer, Cham.
21. Mandal, S. K., Shrestha, P. K., Alenazi, F. S., Shakya, M., **Alhamami, H. N.**, & Briski, K. P. (2017). Role of hindbrain adenosine 5'-monophosphate-activated protein kinase (AMPK) in hypothalamic AMPK and metabolic neuropeptide adaptation to recurring insulin-induced hypoglycemia in the male rat. *Neuropeptides*, 66, 25-35.
22. Alenazi, F. S., Ibrahim, B. A., **Alhamami, H. N.**, Shakiya, M., & Briski, K. P. (2016). Role of estradiol in intrinsic hindbrain AMPK regulation of hypothalamic AMPK, metabolic neuropeptide, and norepinephrine activity and food intake in the female rat. *Neuroscience*, 314, 35-46

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