

Ahmad Ahmeda, MBChB, PhD

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Academic Rank

Associate Professor

Qualifications

- Postgraduate Diploma in Advanced Audiology (PGDipAA), University College Cork, Ireland, 2014
- Postgraduate Diploma in Teaching and Learning in Higher Education (PGDipT&LHed), University College Cork, Ireland, 2013
- Doctor of Philosophy (PhD) in Medicine (Medical Physiology), University College Cork, Ireland, 2007
- Bachelor of Medicine and Surgery (MBChB), University of Benghazi, Libya, 1999

Research field(s)

- Oxidative stress and control of renal haemodynamic.
- Examining the role of Nitric Oxide in the neural control of intra-renal haemodynamics in anaesthetised normotensive and stroke-prone spontaneously hypertensive rats.
- Studied the influence of superoxide anion in the neural control of intrarenal haemodynamics of anaesthetised normotensive and hypertensive rats.
- The regulation of renal haemodynamics by reactive oxygen species.
- Consequences of blocking superoxide dismutase on renal haemodynamics in functioning and blocked angiotensin system in normal and low salt dieted rats.
- The impact of Reactive Oxygen Species & NADPH Oxidase on the Regulation of Renal Haemodynamics.
- Investigation into the expression and activity of enzymes responsible for oxidative stress in rat kidneys and its relationship with salt intake.
- Effects of angiotensin 1-7 on renal haemodynamics.

- Roles of medicinal plants in health and diseases.

Publications (Last five years)

- Al-Amarat, Wesam, Mohammad H. Abukhalil, Reem S. Alruhaimi, Haifa A. Alqhtani, Nouf Aldawood, Manal A. Alfwuaires, Osama Y. Althunibat, Saleem H. Aladaileh, Abdulmohsen I. Algefare, Abdulkareem A. Alanezi, Ali M. AbouEl-ezz, **Ahmad F. Ahmeda**, and Ayman M. Mahmoud. 2022. "Upregulation of Nrf2/HO-1 Signaling and Attenuation of Oxidative Stress, Inflammation, and Cell Death Mediate the Protective Effect of Apigenin against Cyclophosphamide Hepatotoxicity" *Metabolites* 12, no. 7: 648.
<https://doi.org/10.3390/metabo12070648>
- Saghir, Sultan AM, Mahfoudh AM Abdulghani, Reem S. Alruhaimi, **Ahmad F. Ahmeda**, Naif A. Al-Gabri, Saleh AMA Alomaisi, Amirin Sadikun, Vikneswaran Murugaiyah, and Ayman M. Mahmoud. "Acute and sub-chronic toxicological evaluation of Averrhoa carambola leaves in Sprague Dawley rats." *Environmental Science and Pollution Research* (2022): 1-12.
- ALRashdi, Barakat M., Hassan A. Elgebaly, Mousa O. Germoush, Moath M. Qarmush, Mona S. Azab, Reem S. Alruhaimi, **Ahmad F. Ahmeda** et al. "A flavonoid-rich fraction of Monolluma quadrangula inhibits xanthine oxidase and ameliorates potassium oxonate-induced hyperuricemia in rats." *Environmental Science and Pollution Research* (2022): 1-13.
- Alshawsh, Mohammed Abdullah, Abdulsamad Alsalahi, Salah Abdalrazak Alshehade, Sultan Ayesh Mohammed Saghir, **Ahmad Faheem Ahmeda**, Raghdah Hamdan Al Zarzour, and Ayman Moawad Mahmoud. "A Comparison of the Gene Expression Profiles of Non-Alcoholic Fatty Liver Disease between Animal Models of a High-Fat Diet and Methionine-Choline-Deficient Diet." *Molecules* 27, no. 3 (2022): 858.
- Antar, S.A., Abdo, W., Taha, R.S., Farage, A.E., El-Moselhy, L.E., Amer, M.E., Abdmonsef, A.S., Hamid, A.M.A., Kamel, E.M., **Ahmeda, A.F.** and Mahmoud, A.M., 2021. Telmisartan attenuates diabetic nephropathy by mitigating oxidative stress and inflammation, and upregulating Nrf2/HO-1 signaling in diabetic rats. *Life Sciences*, p.120260.
- Aladaileh, Saleem H., Farhan K. Al-Swailmi, Mohammad H. Abukhalil, **Ahmad F. Ahmeda**, and Ayman M. Mahmoud. "Punicalagin prevents cisplatin-induced

nephrotoxicity by attenuating oxidative stress, inflammatory response, and apoptosis in rats." *Life Sciences* (2021): 120071.

- Al-Amarat, W., Abukhalil, M.H., Althunibat, O.Y., Alfwuaires, M.A., Alnamshan, M.M., Alqosaibi, A.I., **Ahmeda, A.F.**, Kamel, E.M., Arab, H.H. and Mahmoud, A.M., 2021. Galangin Attenuates Liver Injury, Oxidative Stress and Inflammation, and Upregulates Nrf2/HO-1 Signaling in Streptozotocin-Induced Diabetic Rats. *Processes*, 9(9), p.1562.
- **Ahmeda, Ahmad F.**, Thamer F. Al-Ahmadi, Abdullah F. Alotaibi, Mohammed A. Alshehri, Abdulelah M. Almousa, Omar M. Alshehri, Abdulrahman Z. Alanazi, and Lamyia M. Anweigi. "The awareness of water intake and its correlation with BMI among students attending national and international secondary schools in Riyadh, Saudi Arabia." *Libyan Journal of Medicine* 16, no. 1 (2021): 1918903.
- Almansour, Abdulwahab, Faisal AlJammaz, **Ahmad Ahmeda**, Mohammed Alfawaz, Khalid Abdulsalam, Abdulaziz AlSheikh, Mohammed Aljaloud, and Meshal Alkhudhayr. "The Prevalence of Sleep Deprivation and its influence on Students' Life Attending Medical School at King Saud University." *Int J Pharm Phytopharm Res* 10, no. 5 (2020): 149-56.
- Alotaibi, Mohammed F., Fakhria Al-Joufi, Howida S. Abou Seif, Mohammed A. Alzoghaibi, Laiche Djouhri, **Ahmad F. Ahmeda**, and Ayman M. Mahmoud. "Umbelliferone inhibits spermatogenic defects and testicular injury in lead-intoxicated rats by suppressing oxidative stress and inflammation, and improving Nrf2/HO-1 signaling." *Drug Design, Development and Therapy* 14 (2020): 4003.
- Tan, Yong Chia, Munavvar Abdul Sattar, **Ahmad F. Ahmeda**, Nurzalina Abdul Karim Khan, Vikneswaran Murugaiyah, Ashfaq Ahmad, Zurina Hassan, Gurjeet Kaur, Mohammed Hadi Abdulla, and Edward James Johns. "Apocynin and catalase prevent hypertension and kidney injury in Cyclosporine A-induced nephrotoxicity in rats." *PloS one* 15, no. 4 (2020): e0231472.
- Ruane-O'Hora, Therese, **Ahmad Ahmeda**, and Farouk Markos. "The vascular glycocalyx is not a mechanosensor in conduit arteries in the anesthetized pig." *PeerJ* 8 (2020): e8725.
- Hemmati, Saba, **Ahmad Ahmeda**, Yaser Salehabadi, Akram Zangeneh, and Mohammad Mahdi Zangeneh. "Synthesis, characterization, and evaluation of cytotoxicity, antioxidant, antifungal, antibacterial, and cutaneous wound healing effects of copper nanoparticles using the aqueous extract of Strawberry fruit and L-Ascorbic acid." *Polyhedron* 180 (2020): 114425.

- Ahmadifard, Zeynab, **Ahmad Ahmeda**, Mahsa Rasekhian, Sajad Moradi, and Elham Arkan. "Chitosan-coated magnetic solid lipid nanoparticles for controlled release of letrozole." *Journal of Drug Delivery Science and Technology* 57 (2020): 101621.
- Djouhri, Laiche, Trevor Smith, **Ahmad Ahmeda**, Mohammad Alotaibi, and Xiechuan Weng. "Hyperpolarization-activated cyclic nucleotide-gated channels contribute to spontaneous activity in L4 C-fiber nociceptors, but not A β -non-nociceptors, after axotomy of L5-spinal nerve in the rat in vivo." *Pain* 159, no. 7 (2018): 1392-1402.
- **Ahmeda, Ahmad F.** "The effect of intra-renal administration of L-NAME on renal medullary and cortical blood flow of stroke-prone spontaneously hypertensive rats and wistar rats." *Journal of Natural Science, Biology and Medicine* 9, no. 2 (2018): 121.
- **Ahmad F. Ahmeda**, Mark G. Rae, Lamyia M. Anweigi, Mohammed F. Al Otaibi, Abeer A. Al-Masri and Edward J. Johns (2018): "The effect of superoxide dismutase enzyme inhibition on renal microcirculation of spontaneously hypertensive-stroke prone and Wistar rats." *Physiol Res* 67(4): 535-541.

Courses Taught (Last five years)

- Renal Block (REN123)
- Blood and Cardiovascular Block (CVB121)
- Musculoskeletal Block (MSK112)
- Gastrointestinal Block (GIT113)
- Endocrine and Reproductive Block (END231)
- Pathology of the Disease Block (POD232)
- Head & Neck and Integumentary System (HNS241)
- Neurophysiology and Neuroscience Block (NEU242)
- Special Senses Block (SPS243)
- Endocrine Block (END353)
- Reproductive & Beast Block (REP354)
- Cardiovascular Block (CVS361)
- Renal Block (REN363)
- Hematology/Oncology Block (HEM364)

Professional Experience

- August 2020 up-to-date Associate Professor of Physiology, College of Medicine, Ajman University, UAE
- 2019 – 2020 Associate Professor of Physiology, Department of Basic Medical Sciences, College of Medicine, Qatar University, Doha, Qatar.
- May 2018 - 2019, Associate Professor of Medical/ Clinical Physiology, Department of Physiology, College of Medicine, King Saud University (KSU), Saudi Arabia.
- 2014 – May 2018, Assistant Professor of Medical/ Clinical Physiology, Department of Physiology, College of Medicine, King Saud University (KSU), Saudi Arabia.
- 2008 - 2014, College Lecturer, Department of Physiology, College of Medicine, University College Cork, Ireland.
- 2006 – 2008, Post-Doctoral Research Fellow/ Acting lecturer, Department of Physiology, College of Medicine, University College Cork, Ireland.
- 2003 – 2006, Senior Clinical Medical Demonstrator, Department of Physiology, College of Medicine, University College Cork, Ireland.
- 2000 – 2002, Senior House Officer/Registrar, Al-Jalla Accident and Emergency Teaching Hospital, Benghazi, Libya.

Committees Work

- **January 2022 – present:** Chairman of Student Life and Academic Advising Committee, College of Medicine, Ajman University, Ajman, United Arab Emirates.
- **January 2022 – present:** Member of the Research Committee, College of Medicine, Ajman University, Ajman, United Arab Emirates.
- **August 2020 – January 2022:** Member of the Assessment Committee, College of Medicine, Ajman University, Ajman, United Arab Emirates.
- **August 2020 – January 2022:** Chairman of the Curriculum Committee, College of Medicine, Ajman University, Ajman, United Arab Emirates.
- **August 2020 – present:** Block Coordinator for the Neuroscience Block, College of Medicine, Ajman University, Ajman, United Arab Emirates.
- **August 2020 – present:** Block Coordinator for the Special Sense Block, College of Medicine, Ajman University, Ajman, United Arab Emirates.
- **2017-2019:** Chairman of the Postgraduate Committee and Supervisory Committee, Dept. of Physiology, College of Medicine, KSU, Saudi Arabia.
- **2014-2016:** Academic Adviser for 1st and 2nd-year medical students (College of Medicine, KSU).
- **2014- 2019:** Permanent member representing the Basic Medical Sciences Departments in the Assessment and Evaluation Unit, College of Medicine, King Saud University.

- **2008-2014:** Departmental Representative (Outreach Representative), University College Cork, Ireland.

Honors and Awards

- Affiliated member of the Physiological Society, the UK and Ireland.
- Full member of the Scandinavian Physiological Society.
- Fully registered member of the Libyan General Medical Council.
- Associate Member of the Scandinavian Society of Clinical Physiology and Nuclear Medicine.
- Associate Member of the Swedish Society of Clinical Physiology.

Other Contributions and Achievements

I have acted as a peer reviewer for the following journals:

- Libyan Journal of Medicine.
- Uppsala Journal of Medical Sciences.
- Acta Physiologica Journal.
- Irish Journal of Medical Sciences.
- Saudi Journal of Gastroenterology.