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#### **Academic Rank**

**Assistant Professor** 

## Qualifications

- 2016: Doctorate in in Physiology, University of Tübingen, Germany
- 2010: Master in Physiology, University of Khartoum, Sudan
- 2004: Bachelor of Medicine and Surgery (MBBS), Upper Nile University, Sudan

#### Research field(s)

- Regulation of ion channels by kinases
- Diabetes and metabolic syndrome
- Metabolic disorders

#### **Publications**

- 1: Sufian K Noor, Moshira Hassan Elfakey Fadlelseed, Sara Osman Elamin Bushara, Safaa Badi, Omer Mohamed, Amin Elmubarak, Musa Kheir, Nuha Eljailli Abubaker, Mohamed H Ahmed, Musaab Ahmed. Prevalence of Obesity Related Hypertension among overweight or obese adults in River Nile State in Northern Sudan: a community based cross-sectional study. Cadiovascular Diagnosis and therapy (accepted)
- 2: Ahmed M, Badi S, Elidrisi A, Husain NE, Zainudin SB, Mahmood A, Abubaker NE, Alghamdi AS, Ahmed MH. Safety and effectiveness of newer antidiabetic medications during Ramadan fasting and safety of Ramadan fasting after bariatric surgery...J Diabetes Metab Disord. 2022 Oct 24;21(2):1991-2004. doi: 10.1007/s40200-022-01145-6. eCollection 2022 Dec.PMID: 36404821 Free article. Review.
- 3: Noor SK., Hamid S, Abdelgeyoom, A.E., Ahmed, M.H., Ahmed M. The prevalence of metabolic syndrome among adult patients with chronic kidney disease: an overlooked problem in Sudan. Journal of Public Health and Emergency, 2022, 6, 13



- 4: **Ahmed M**, Kumari N, Mirgani Z, Saeed A, Ramadan A, Ahmed MH, Almobarak AO. Correction to: Metabolic syndrome; Definition, Pathogenesis, Elements, and the Effects of medicinal plants on it's elements. J Diabetes Metab Disord. 2022 May 3;21(1):1217. doi: 10.1007/s40200-022-01035-x. eCollection 2022 Jun. PMID: 35675044 Free PMC article.
- 5: **Ahmed M**, Kumari N, Mirgani Z, Saeed A, Ramadan A, Ahmed MH, Almobarak AO.Metabolic syndrome; Definition, Pathogenesis, Elements, and the Effects of medicinal plants on it's elements. J Diabetes Metab Disord. 2022 Mar 15;21(1):1011-1022. doi: 10.1007/s40200-021-00965-2. eCollection 2022 Jun.PMID: 35673459 Free article. Review.
- 6:Zulfu A, Hamid ST, Elseed KA, Elmadhoun WM, Ahmed M, Ahmed MH.Coronavirus disease 2019 morbid pulmonary pathology: What did we learn from autopsy examinations? J Clin Transl Res. 2021 Aug 4;7(4):479-484. eCollection 2021 Aug 26.PMID: 34667895 Free PMC article. Review.
- 7: Ahmed, M.H., Husain, N.E., Auf, A.I., Elshiekh, M., **Ahmed M**. Academic medicine in Sudan: the challenges and solutions. Journal of Public Health and Emergency, 2022, 6, 5
- 8: Ahmed, M.H., Husain, N.E., Ahmed, M., Elshiekh, M., Osman, W.N.Clinician-scientist (MD-PhD) postgraduate programs in Sudan: challenges, strategies, implementations and future directions? Journal of Public Health and Emergency, 2022, 6, 6
- 9:Ragab, E.A., Dafallah, M.A., Salih, M.H., Abdalla, M.E., Ahmed, M, Ahmed, M.H.Correction to: Stress and its correlates among medical students in six medical colleges: an attempt to understand the current situation (Middle East Current Psychiatry, (2021), 28, 1, (75), 10.1186/s43045-021-00158-w) Middle East Current Psychiatry, 2021, 28(1), 86
- 10: Ragab, E.A., Dafallah, M.A., Salih, M.H., Abdalla, M.E., Ahmed, M, Ahmed, M.H. Stress and its correlates among medical students in six medical colleges: an attempt to understand the current situation. Middle East Current Psychiatry, 2021, 28(1), 75
- 11: Ahmed, M.H., Ahmed, M., Taha, M.H., ...Omer, A., Husain, N.E..Current and future clinical research in Sudan: an opportunity for everyone to choose research in medical education, communicable and non-communicable diseases. Journal of Public Health and Emergency.2021. doi: 10.21037/jphe-21-31
- 12: Ahmed M, Ahmed MH. Nonalcoholic fatty liver disease and COVID-19: An epidemic that begets pandemic. World J Clin Cases. 2021 Jun 16;9(17):4133-4142. doi: 10.12998/wjcc.v9.i17.4133.
- 13:Ahmed M, Fezai M, Lang F.SGK3 Sensitivity of Large-Conductance Ca2+-Activated K+ Channel. Neurosignals. 2016 Nov 30;24(1):113-124. [Epub ahead of print]
- 14:Fezai M, Ahmed M, Hosseinzadeh Z, Lang F. Up-Regulation of the Large-Conductance Ca2+-Activated K+ Channel by Glycogen Synthase Kinase GSK3β. Cell Physiol Biochem. 2016;39(3):1031-9. doi: 10.1159/000447810. Epub 2016 Aug 19.
- 15:Ahmed M, Fezai M, Uzcategui NL, Hosseinzadeh Z, Lang F. SGK3 Sensitivity of Voltage Gated K+ Channel Kv1.5 (KCNA5).Cell Physiol Biochem. 2016;38(1):359-67. doi: 10.1159/000438636. Epub 2016 Jan 29.
- 16:Fezai M, Ahmed M, Hosseinzadeh Z, Elvira B, Lang F. SPAK and OSR1 Sensitive Kir2.1 K+ Channels.Neurosignals. 2015 Dec 17;23(1):20-33. [Epub ahead of print]PMID:26673921



- 17:Ahmed M, Honisch S, Pelzl L, Fezai M, Hosseinzadeh Z, Bock CT, Kandolf R, Lang F. Upregulation of epithelial Na(+) channel ENaC by human parvovirus B19 capsid protein VP1.Biochem Biophys Res Commun. 2015 Dec 4;468(1-2):179-84. doi: 10.1016/j.bbrc.2015.10.137. Epub 2015 Oct 29.PMID:26522226
- 18:Ahmed M, Salker MS, Elvira B, Umbach AT, Fakhri H, Saeed AM, Shumilina E, Hosseinzadeh Z, Lang F. SPAK Sensitive Regulation of the Epithelial Na Channel ENaC. Kidney Blood Press Res. 2015;40(4):335-43.
- 19: Almilaji A, Honisch S, Liu G, Elvira B, Ajay SS, Hosseinzadeh Z, **Ahmed M**, Munoz C, Sopjani M, Lang F. Regulation of the voltage gated K channel Kv1.3 by recombinant human klotho protein. Kidney Blood Press Res. 2014;39(6):609-22.
- 20: Ahmed M, Elvira B, Almilaji A, Bock CT, Kandolf R, Lang F. Down-regulation of inwardly rectifying Kir2.1 K+ channels by human parvovirus B19 capsid protein VP1. J Membr Biol. 2015 Apr;248(2):223-9.
- 21: Ahmed M, Almilaji A, Munoz C, Elvira B, Shumilina E, Bock CT, Kandolf R, Lang F.Down-regulation of K<sup>+</sup> channels by human parvovirus B19 capsid protein VP1.Biochem Biophys Res Commun. 2014 Aug 8;450(4):1396-401. doi: 10.1016/j.bbrc.2014.07.003.
- Book Chapter: Ahmed M, Mital D, Ahmed mM. Ahmed M H. Management of hypercholesterolemia in HIV. Cholesterol: from Biophysics to the Clinics. 2022, pp. 999–1020

#### **Courses Taught**

- Introductory Physiology,
- Excitable tissues.
- Hematology,
- Cardiovascular Physiology,
- Respiratory Physiology,
- Gastrointestinal Physiology,
- renal Physiology,
- Endocrine and reproduction Physiology
- Neurophysiology

### **Professional Experience**

- August 2019 to now: Assistant Professor, Department of Basic Medical Sciences, College of Medicine, Ajman University, Ajman, United Arab Emirates
- September 2017 to July 2019: Assistant Professor, Department of Physiology, Faculty of Medicine, University of Medical sciences and Technology, Khartoum, Sudan
- Jan 2017 to September 2017: Assistant Professor, Department of Physiology, Faculty of Medicine, Red Sea University, Sudan



- May 2016 to December 2016: Postdoctoral scholar, Institute of Physiology, University of Tübingen, Tübingen, Germany
- 2013 to 2016: Doctoral student and research assistant, Institute of Physiology, University of Tübingen, Tübingen, Germany
- 2011 to 2013: Lecturer, Department of Physiology, Faculty of Medicine, Red Sea University, Sudan
- July 2010- January 2011: Teaching assistant in the Department of Physiology, Faculty of Medicine, Red Sea University, Sudan
- June 2008- June 2010: Tutor in the Department of Physiology, Faculty of Medicine, International University of Africa, Sudan
- **February 2007- February 2008**: General practitioner in the medical commission of the military service, Sudan (military service is mandatory in Sudan)
- September 2005- January 2007: House officer in Umbadda hospital, Soba University Hospital and Academy charity hospital in Khartoum, Sudan

#### **Committees Work**

- Chair:
- 2020- now: College of Medicine Research Council
- Coordinator of diabetes and metabolic syndrome research team
- Member:
- 2019- now: External relations and international collaboration committee
- 2019-2020: research and ethics
- 2019-2020: Curriculum committee
- Ajman University Assignments:
- Committee Member:
- 2020-now: facility optimization sub-committee
- 2020-now: Ajman University Council of research
- 2019-2022: student success center

## Honors and Awards

- Sudanese ministry of higher education and scientific research scholarship for doctoral research abroad 2013-2014
- University of Tübingen Scholarship 2014-2016

#### **Other Contributions and Achievements**

Served as reviewer for the following journals:



- Wiener Medizinische Wochenschrift
- Diabetes and metabolic syndrome: clinical research and reviews
- Saudi Journal for biological sciences
- Endocrine