

## Meet the Editorial Board Member

### Ayman M. Mahmoud

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Dr. Ayman A. Mahmoud is a Senior Lecturer of Cellular and Molecular Physiology at Manchester Metropolitan University (UK) and Associate Professor of Molecular Physiology at Beni-Suef University (Egypt). He received his Ph.D. in Physiology from Beni-Suef University (Egypt) in 2012 and started his career as assistant professor at the same university. As a winner of the Erasmus Mundus postdoctoral fellowship award, Dr. Mahmoud joined the Department of Pharmacology, Faculty of Pharmacy, Granada University (Spain) to start investigating the role of PPAR $\beta$  in endothelial function. He received the International Atherosclerosis Society (IAS, USA) and STDF (Egypt) fellowship awards and joined Manchester Metropolitan University as a visiting academic, where his work aimed to explore the role of microvesicles in endothelial function/dysfunction, and the protective potential of a novel class of small molecule glycomimetics against endothelial dysfunction and smooth muscle calcification and his work enabled the university to take out a patent application. Dr. Mahmoud won the prestigious Alexander von Humboldt Foundation fellowship award and joined the Center for Cardiovascular Research at Charité – Universitätsmedizin Berlin (Germany) for 2 years. Upon completing this fellowship, he joined the Institute of Diabetes & Obesity at Helmholtz Zentrum München (Germany) as a senior postdoc, where he worked in the development of cell-specific DNA aptamers for drug delivery and cell sorting. Dr. Mahmoud's research interests focus on pathophysiological mechanisms and novel therapeutic targets for diseases, including diabetes, obesity, cardiovascular disease, and drug/chemical-induced toxicity.



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#### SELECTED PUBLICATIONS:

- [1] Mahmoud AM, M. Yvonne Alexander. Endothelial microparticles prevent lipid-induced endothelial damage via Akt/eNOS signaling and reduced oxidative stress. *FASEB J*, 2017; 31(10):4636-4648.
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- [8] Mahmoud AM, Alexander MY. Modulating Oxidative Stress in Drug-Induced Injury and Metabolic Disorders: The Role of Natural and Synthetic Antioxidants. *Oxidative Medicine & Cellular Longevity*, 2019; 2019: 3206401.
- [9] Alhusaini A, Mahmoud A. Acetyl-L-carnitine and/or liposomal co-enzyme Q10 prevent propionic acid-induced neurotoxicity by modulating oxidative tissue injury, inflammation, and ALDH1A1-RA-RAR $\alpha$  signaling in rats. *Biomedicine & Pharmacotherapy*, 2022; 153:113360.
- [10] Arafa EG, Sabaa MW, Mohamed RR, Kamel EM, Abdel-Gawad OF, Mahmoud AM. Eco-friendly and biodegradable sodium alginate/quaternized chitosan hydrogel for controlled release of urea and its antimicrobial activity. *Carbohydrate Polymers*, 2022; 291: 119555.