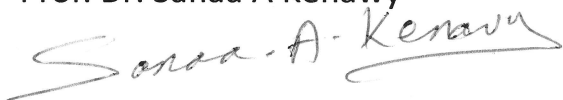


## Language certificate

This article was subjected to professional language editing by Prof. Dr.Sanaa A Kenawy who is one of the examination board of Enas A Abd El-Haleim PhD thesis. Prof. Kenawy is a distinguished Pharmacology Professor at Faculty of Pharmacy, Cairo University (Former Head of the Department of Pharmacology and Toxicology), with a PhD degree in Pharmaceutical Sciences (Pharmacology), Royal College of Surgeons, London University, UK, and who spent many years in UK. She has authored more than 80 publications in well known national and top ranked international journals in the field of Pharmacology and Medicine with several coauthoring in internationally published books. Prof. Kenawy supervised on and discussed more than 70 PhD and MSc theses and was acknowledged by many colleagues for her guidance and support in their work. She has actively participated in many regional and international conferences and is considered a notable speaker and eminent chairperson. She is a member of many specialized societies in Egypt and internationally. She is in the review board of many well known famous journals in the fields of Pharmacology and clinical Pharmacology.

Prof. Dr. Sanaa A Kenawy

A handwritten signature in dark ink, reading "Sanaa A. Kenawy". The signature is fluid and cursive, with a long horizontal stroke at the end.