

## IETS Foundation 2022 Early Career Achievement Award (Scientist)

### Islam M. Saadeldin



Islam M. Saadeldin obtained his DVM and master's degrees from Zagazig University, Egypt, and PhD from Seoul National University, South Korea. After his PhD, he worked as a postdoctoral researcher at Seoul National University. He was a visiting scholar at Niigata University, Japan, and an associate professor at King Saud University, Saudi Arabia. Currently, he is a research professor at Chungnam National University, South Korea, in addition to his tenured faculty position at Zagazig University. He has a patent of invention (The Korean Intellectual Property Office) regarding bovine embryo transgenesis through piggybac transposons, and he has authored more than 120 research papers, reviews, and book chapters covering the fields of advanced reproductive biotechnology, including somatic cell nuclear transfer (SCNT), transgenesis, adult and embryonic stem cells, the roles of extracellular vesicles in embryo communication, and embryo–maternal crosstalk. In addition, he has investigated the comparative cellular defense against extreme hyperthermia and the relationship with cellular anastasis and cellular resilience. His current research focuses on developing CRISPR/Cas9 engineered extracellular vesicles for improving embryo

implantation and pregnancy of cloned and transgenic animals. He has been awarded several national and international prizes, including the Egyptian State Prize, Shoman Prize, Almarai Prize, Misr Elkheir prize, and the Asian Universities Alliance Scholar Award. He has served as an editorial board member and ad hoc reviewer for several journals and is a university teacher and science communicator.