



Date of birth: 11.10.1987  
Place of birth: Sohag, Egypt  
Marital status: Married

## Education

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|----------------|--|
| 2015 – present | <b>Ph.D. in Animal Breeding and Genetics (DAAD scholarship)</b> , Faculty of agriculture, Bonn University, “Molecular mechanisms associated with survival of bovine embryos under stress condition”, expected by the beginning of 2019                               |
| 2010– 2013     | <b>Master of Veterinary Medical Sciences</b> at South valley university – Qena, Egypt, Final grade: Excellent, Major subject: Animal breeding and reproductive physiology, Master thesis: “Estrous synchronization and improvement of conception rate in dairy cows” |
| 2004 – 2009    | <b>Bachelor of Veterinary medical Sciences</b> at South valley university – Qena, Egypt, Final grade: Excellent  |

## Professional experience

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|-------------------|--|
| 04/2015 – present | <b>Researcher in Institute of animal breeding and genetics</b> , Faculty of agriculture, Bonn University<br>Investigate the cellular response of bovine granulosa cells and preimplantation embryos against oxidative stress and molecular regulation of Nrf2 gene (key transcription factor mediated oxidative stress response)   |
| 07/2011 – 10/2014 | <b>Researcher and lecturer assistant</b> , Faculty of veterinary medicine, Sohag University, Egypt <ul style="list-style-type: none"><li>• Investigate and modify different estrous synchronization in dairy farms and its implication on cow reproductive performance</li><li>• Teaching the practical part of animal reproductive physiology, reproductive disorders and assisted reproductive technologies (ARE)</li></ul> <b>Diagnostic laboratory manager</b><br>Responsible for human patient sample collection and documentation, perform clinical diagnostic analysis (liver, kidney function tests, hormonal assays ... etc.) |

**Omar Khadrawy**  
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03/2010 – 07/2011

**Teaching assistant in department of animal reproduction**, Faculty of veterinary medicine, South valley university – Qena, Egypt  
Responsible for teaching the practical part of animal reproductive physiology, reproductive disorders and assisted reproductive technologies (ART)

## Knowledge and skills

### Languages

Arabic	Native
English	Very good in speech and writing
German	Good in speech and writing

### Laboratory skills

- Cell culture (bovine granulosa cells), transfection optimization, plasmid transfection and RNAi knockdown
- DNA isolation, RNA isolation, plasmid and genomic DNA isolation
- Gene cloning, PCR, qPCR
- DNA sequence analysis
- Flow Cytometry, protein isolation, fluorescent microscopy, Luciferase reporter assays and western blot, mitochondrial activity assay
- Epigenetic gene regulation through the microRNA modulation
- Drug delivery (exogenous genetic manipulation)
- Little knowledge regarding to other mechanisms regulating gene activities, such as: DNA methylation, histone modification, cell communication mechanism based on small things “exosomes”, and gene editing tool “CRISPR/Cas9”

### IT

MS office	Very good
Photoshop	Very good
Statistical analysis	Very good
R	Fair - Good (Beginner)
Python	Fair - Good (Beginner)

Bonn, 8<sup>th</sup> of January 2019

Signature

