

# AMAL MOHAMED, Ph.D.



## PERSONAL DATA

**Work and Mailing Address:** Medical Biochemistry Department,  
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**Date of birth:** June 12<sup>th</sup>, 1982 in Assiut (Egypt)

**Nationality:** Egyptian

**Current job:** Lecturer at the Department of Medical  
Biochemistry, Faculty of Medicine, Assiut University,  
Egypt

## RESEARCH INTERESTS

Signaling in tumor and tumor microenvironment, Cancer stem cells,  
Cancer Immunology and Immunotherapy and Metabolism in tumor and  
tumor microenvironment, Biochemistry

## SKILLS

**Computer:** Microsoft office, Photoshop CS6, Image J

**Languages:** English: Excellent speaking and writing  
German: Good (Goethe Zertifikat B2- Goethe  
institute Freiburg, Germany)

## **EDUCATION, ACADEMIC QUALIFICATIONS AND EMPLOYMENT**

- Jan 2017- Present**     *Lecturer, Medical Biochemistry  
Department, Faculty of Medicine, Assiut University,  
Egypt*
- 2016**     *Ph.D. (Dr.rer.nat.) in Biology, Faculty of Biology,  
Albert-Ludwigs University, Freiburg, Germany  
Thesis entitled "**The role of exosomes in tumor  
progression and the impact of tetraspanins**"*
- 2011-2016**     *DAAD scholarship (GERLS) for doctorate studies,  
Faculty of Biology, Albert-Ludwigs University,  
Freiburg, Germany*
- July 2009**     *Assistant Lecturer, Medical Biochemistry Department  
Faculty of Medicine, Assiut University, Egypt*
- 2009**     *M.Sc. in Pharmaceutical Sciences (Biochemistry),  
Faculty of Pharmacy, Assiut University, Egypt*
- Dec 2004**     *Demonstrator, Medical Biochemistry Department,  
Faculty of Medicine, Assiut University, Egypt*
- 2004**     *B.Sc. in Pharmaceutical Sciences, Faculty of  
Pharmacy, Assiut University, Egypt*
- 1999-2003**     *Undergraduate studies in Pharmaceutical  
Sciences, Faculty of Pharmacy, Assiut  
University, Egypt*

## WORK EXPERIENCES

- Cell culture and sub culturing of mammalian cell lines.
- Mammalian cell transfection and generation of stable clones.
- SDS-PAGE and immunoblotting.
- Flow cytometry.
- Immunofluorescence.
- RNAi.
- Laser scanning confocal microscopy (Leica TCS SP2 and SP8).
- Agarose gel electrophoresis and PCR.
- Molecular cloning and generation of fusion constructs.

## TEACHING AND SUPERVISION EXPERIENCES

- Supervision of master and PhD students, Biochemistry department, Faculty of Medicine, Assiut University, Egypt (2017-Present).
- Supervision of master students 2014/2015 and 2015/2016, University Hospital, Freiburg, Germany.
- Supervision of molecular medicine students 2014/2015 and 2015/2016, University of Freiburg, Germany.
- Teaching undergraduate courses for pharmacy students, Assiut University, Egypt.

## TRAINING AND CONFERENCES

- Feb 2020**      Workshop ***“Isolation of Primary Cells and Modification of Cell Cultures Using CRISPR-Cas9 Technology”***, University of Veterinary Medicine, Vienna in collaboration with Molecular Biology Researches and Studies Institute, Assiut University, Egypt.
- Feb 2019**      Workshop ***“Cell culture skills: Isolation, purification and banking of hepatocytes, splenocytes and PBMCs”***, Multidisciplinary research centre of excellence (MRCE), Assiut University, Egypt.

- Apr 2013** International symposium "**Signaling and sorting**", SFB 746, Freiburg, Germany
- Feb 2013** International symposium "**Control of Cell Motility in Development and Cancer**", SFB 850, Freiburg, Germany.
- Feb 2013** Symposium "**Advanced microscopy techniques in life Sciences**", BIOSS Center for Biological Signaling Studies, University of Freiburg, Germany in cooperation with Nikon.
- Mar 2011** Workshop "**Protein Electrophoresis & Immunoblotting (Western Blot)**", Genetic Engineering and Molecular Biology Research Center, Assiut University, Egypt.

## **PRESENTATIONS**

- Mar 2017** Conference talk entitled: "**Exosomes as vehicles for targeted therapies**", Updates in metabolic, molecular and cytogenetic disorders Conference, Assiut University, Egypt.
- July 2020** ISEV annual meeting 2020 (A Virtual Conference)  
**"Nuclear proteins are recruited into tumour-derived extracellular vesicles upon expression of tetraspanin Tspan8"**  
Elena Grueso Navarro, Andrea Gross, Amal Mohamed, Patrick Then, Frank Garwe, Domitille Schvartz, Jean-Charles Sanchez, Andreas Keller, Joaquin Jurado Maqueda, Carla Oliveira and Irina Nazarenko  
(Presenter: Elena Grueso Navarro)

## PUBLICATIONS

Gamal Badr, Halise Inci Gul, Cem Yamali, Amal A.M. Mohamed, Badr M. Badr, Mustafa Gul, Ahmad Abo Markeb, Nagwa Abo El-Maali. Curcumin analogue 1,5-bis(4-hydroxy-3-((4-methylpiperazin-1-yl) methyl)phenyl)penta-1,4-dien-3-one mediates growth arrest and apoptosis by targeting the PI3K/AKT/mTOR and PKC-theta signaling pathways in human breast carcinoma cells. *Bioorg Chem.* 2018 Mar 7;78:46-57. doi: 10.1016/j.bioorg.2018.03.006.

## REFERENCES

### **Prof. Dr. Tilman Brummer**

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### **Prof. Dr. Irina Nazarenko**

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### **Prof. Dr. Gamal Badr**

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