## WORK HISTORY

### The University of Queensland - Tutor of Cell and Molecular Biology

Brisbane, Queensland. 03/2017 – 07/2020

* Teach students how to conduct research and summarize findings.
* Respond to emails relating to research.
* Attend project meetings at different levels.
* Check the work progress of undergraduate students involved in different projects.

### Banha University - Assistant Lecturer

AlQalyubia, Egypt. 05/2009 – 01/2013

* Conduct research on molecular genetics and molecular biology projects.
* Provide students with clear and concise digital circuit theory fundamentals and internal processes.
* Provide biology lectures, assist professors with research activities, guide students with homework and research activities.
* Design additional PowerPoint lectures and writing activities to supplement the regular curriculum to help students in their learning.
* Prepare lesson plan, evaluation plan, exam questions for the students, conduct written theory and practical exams.

## GRANTS AND SCHOLARSHIPS

* Full Mission scholarship – provided by the Egyptian Higher Education Ministry in 2016, Egypt.
* Princess Alexandra Hospital Postgraduate research support scheme – provided by Queensland Metro-South Health in 2016, Australia.
* University of Queensland International Scholarship (UQI) – provided by the university of Queensland in 2016, Australia.
* Internship in structural biology – provided by Chinese Academy of Sciences (CAS) and The World Academy of Sciences (TWAS) in 2015, China.
* Australian Aid Scholarship for talented Africans in 2014 – provided by the Australian government.
* Introductory Academic Award – provided by the university of Queensland in 2016, Australia.
* English for Research Academic Purposes – provided by the British Council in 2013, Tanzania.
* Veterinary Medicine and Surgery Clinical Rounds – provided by Benha University in 2008, Egypt.

## PUBLICATIONS, POSTERS, AND TALKS

* The PhD thesis is under confidential agreement with the university of Queensland for 3 years. A paper from my PhD is ready to publish but pending a patent approval before submission.
* Escobar G, Moi D, **Sherif** M, Galea R, Ranghetti A, Naldini L, Mazzieri R (2015, September). Genetic engineering of tumor-infiltrating monocytes to inhibit primary and metastatic breast cancer.

In: Proceedings of the CRI-CIMT-EATI-AACR Inaugural International Cancer Immunotherapy Conference: Translating Science into Survival; September 16-19, 2015; New York, NY. Philadelphia (PA): AACR; Cancer Immunol Res 2016;4 (1 Suppl): Abstract nr B181.

ISSN: 2326-6074; DOI: 10.1158/2326-6074.CRICIMTEATIAACR15-B181.

* **Sherif** M. A new combination strategy based on IFNα delivery and cancer vaccination to treat triple negative breast cancer metastasis. Brisbane Immunology Group (BIG); Talk 2019; Novotel Twin Waters Resort | Sunshine Coast H: QIMR Berghofer.
* **Sherif** M, Moi D, Zeng B, Dolcetti R, & Mazzieri R. Genetically engineered monocytes: a new strategy to improve the outcome of immunotherapies in metastatic breast cancer. Brisbane Life Sciences Symposium (BLiSS); Poster 2019; Brisbane Convention & Exhibition Centre.
* **Sherif** M, Moi D, Zeng B, Dolcetti R, & Mazzieri R. Engineered tumor-infiltrating macrophages as gene delivery vehicles for interferon-α activates immunity and inhibits breast cancer progression. Translational Research Symposium; Poster 2019; Transitional Research Institute (TRI).
* **Sherif** M, editor Genetic engineering of tumour-infiltrating monocytes to inhibit metastatic breast cancer. UQDI student cancer retreat; Conference Talk 2018; Stradbroke island UQ research station.
* **Sherif** M, editor Engineering Hematopoiesis for Tumor Targeted Delivery of IFNa Inhibit Breast Cancer Metastases in Murine and Human Hematochimeric Models. UQ health symposium FOM; Conference Talk 2018; RBWH, Herston.
* **Sherif** M, Moi D, Boase N & Mazzieri R. (2015, September). A new mouse model of bone breast cancer metastasis to investigate the anti-metastatic efficacy of monocyte-mediated delivery of IFNα. Poster presented at the International Annual Princess Alexandra Hospital Translational Research Institute (TRI), Brisbane, Queensland, Australia.
* **Sherif** M. Gross Anatomical and Diagnostic Imaging Studies on the Stifle Joint [Master Thesis]. Faculty of Veterinary Medicine: Benha University 2012.
* **Sherif** M, Attia M, Bahgaat H, Alakraa A. Ultrasonographic Imaging of the Normal Stifle Joint in Bos bubalis. Benha Veterinary Medical Journal. 2012; 23(2):40 - 47.

ISSN: 1110 – 6581

* **Sherif** M, Attia M, Bahgaat H, Kassab A. Magnetic resonance imaging of the normal stifle joint in Bos bubalis: an anatomic study. Benthamopen Journal, TOANATJ. 2014; 6: 26-34. DOI: 10.2174/1877609401406010027; ISSN: 1877-6094

# MOUSTAFA SHERIF

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Pre-notice period: 3 months

## PROFESSIONAL SUMMARY

I am effective multi-tasking person with great ability to work with tight deadlines. I am also analytical research specialist experience in cell biology experimental research and data analysis for several years. I am detail-oriented and methodical professional in developing in-depth research projects. I used to work independently and as a reliable team player with excellent communication and problem-solving skills. I would love to be involved in writing of scientific manuscripts and/or grant applications and training of undergrads.

My mission is to create life-saving medicines for patients. I always look to work with talented people who can inspire me. I totally appreciate the time and effort that you put to read this resume.

## SKILLS

* Research project design and management
* Academic writing and teaching
* Cell biology (culturing, multicolor Flow cytometry, IF, lentivirus production and titration, etc).
* Molecular and structural biology (PCR based assays including DDPCR and qPCR, immunoblotting, bacterial cloning, protein purification, crystallography, HPLC, chromatography, titration, microarray, analytic biochemistry assays).
* *In vivo* (Small and large animal surgery, Bone marrow transplantation, adoptive transfer, anaesthesia, injections, Dissection, breeding, *in vivo* imaging including MRI and uCT)
* Embryology and Histology (sectioning, staining, immunohistochemistry).
* Bioinformatics (miscellaneous analysis)
* Software (Office, Graphpad prism, Adobe photoshop, Python, SPSS, IMARIS, ImageJ, Endnote)

## EDUCATION

### Faculty of Medicine

Princess Alexandra Hospital, Transitional Research institute, University of Queensland.

11/2020

Ph.D.: Drug Targeted Delivery for Solid Tumours.

### School of Life Science

University of Science and Technology of China. 07/2016

Internship: Molecular Biology

### School of Chemistry and Molecular Biosciences

Faculty of Science, the University of Queensland

11/2015

Master of Science: Molecular Biology

### Faculty of Veterinary Medicine and surgery

Banha University

08/2008

Bachelor: Veterinary Medicine and Surgery

## Ph.D. TITLE AND SUMMARY

**Title:** Genetic engineering of tumour-infiltrating monocytes to inhibit metastatic breast cancer.

**Summary:** Silencing of interferon-alpha was found responsible for the lethal Breast Cancer (BC) bone metastasis. We successfully reversed this silencing in tumour tissues and metastatic organs by developing novel interferon-alpha tumour target delivery platforms using genetically engineered Tie2-expressing monocytes (TEMs), without inducing the known interferon-alpha systemic toxicity. This resulted in inhibition of Triple Negative BC (TNBC) lung and bone

metastases in both immunocompetent preclinical murine and humanised mouse models. Interferon-alpha delivery improved the outcome of Clec9A-DC TNE cancer vaccination but did not synergies with immune checkpoint modulators (41BB + PD1). Targeted delivery of interferon-alpha in combination with Doxorubicin chemotherapy significantly improved the survival of tumour-bearing mice.