

GOMAA SULAIMAN, HD, PGD, MSc, PhD

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- Professional PhD degrees with overall lab experience especially in cell-based assay development, molecular biology, cancer research , genetics and quality control analyses
 - Strong **team building** and **mentoring ethos** with a focus on **quality** and **budgetary guidelines**, as evidenced by the **line management of 1350 undergraduate students, 32 technicians, 6 researcher assistance, and 7 lecturers**, as **five year head** of the Dental technology department, Tripoli university
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Employment History

2021-up to date	Lecturer. Medical Technology College, Tripoli University, Libya.
2013- 2020	Administrative supervision and teaching (part Time) Libyan School St. Colmcille's School. Dublin,Ireland
02/2019- 12/2020	QC Inspector (Part time) Almursed for Inspection and Conformity .CO Tripoli, Libya
02/2019- 12/2020	QC Inspector (Part time) Almowazna for Inspection and Conformity .CO Tripoli, Libya
2016-2019	Researcher, Cancer Stemness Group. Coombe Women's Hospital, Dublin & Department of Histopathology, Trinity College (TCD)
2012-2015:	PhD –Cancer stem cell Department of Histopathology, Trinity College.
2007-2012:	Head of Dental Technology Department. Medical Technology College, Tripoli University, Libya.
2006-2012:	Lecturer in Medical Technology. Medical Technology College, Tripoli University, Libya.
2001-2003:	MSc Student, Biochemistry Department. Royal College of Surgeons (RCSI) Ireland.
1996-2000:	Supervisor, Private Diagnostics Laboratory. Kortoba Clinic, Tripoli, Libya.
1993-2000:	Medical Scientist. Laboratory Medicine Department, Meatiga Hospital, Tripoli, Libya.

Academic Qualifications

- 2019: **PGD**, Medical Device Technology and Business (QQI) Innopharma & Griffith College.
- 2016: **PhD**, Cancer Stem Cell Biology, Trinity College Dublin.
- 2004: **M.Sc** Human Molecular Genetics, Royal College of Surgeons, Ireland.
- 1991: **HD** Medical Technology, Tripoli University, Libya.

Up to Date Courses

- 06/2023 **Administrative leadership** course. Manaret Alnajah Academy, Tripoli, Libya
- 10/2021 **professional Diploma, Medical Quality Management**. Al-Afdal Organization for Health Training and Development, Tripoli, Libya
- 01/2021 **Active Learning Strategies** course. Kenzan Foundation in cooperation with the Libyan School Dublin Ireland.
- 04/ 2020 **Professional Trainer** Preparation Course, MED Center Nabeul, Tunisia
- 11/2019 **PC maintenance** and network basics . CDETB ballyfermot training center
- 09/2019 **Strategy, Leadership** and the Culture of Innovation. Innopharma
- 01/2019 **Operational Excellence** and the Science of Innovation. Innopharma
- 09/2018 **Medical Device** Quality Systems and Regulation. Innopharma

Trainee

- 09/2017 **Protecting Children** in the Age of Globalization. Irish Islamic Society and Peace Center for European Muslim Studies.
- 2010 **Workshop on ways** and means of evaluation of educational programs at the Institute of Planning
- 2009 **Workshop on quality** auditors at the Office of Quality Assurance of Higher Education
- 2004 **Newborn screening test** at Newborn screening unit, Department of Pathology, Temple street children hospital, Dublin Ireland
- 2005 **Gas Chromatograph** at organic chemistry lab. Temple street Children Hospital, Dublin Ireland
- 1992 **Pathology department**, medical college, Tripoli university, Tripoli, Libya
1991. **Blood bank**, Biochemistry and hematology Department, Al-Jala Maternity Hospital, Tripoli, Libya.

Memberships

- 2012 – to date: Irish Association of Cancer Researchers.
- 1994 – to date: Association of Medical Laboratories (Libya).
- 1992 – to date: Association of Medical Professionals (Libya).

Techniques

- *Self-renewal and differentiation of cancer stem cell models.*
- *Lineage differentiation of pluripotent stem cells.*
- *Cell culture including small interfering RNA (siRNA) optimisation and transfections.*
- *Over-expression plasmid transfections.*
- *Bacterial transformations.*
- *RNA and DNA (plasmid prep) isolation.*
- *cDNA synthesis.*
- *Real-time PCR.*
- *Immuno-Histochemistry*
- *Flow cytometry and fluorescence activated cell sorting (FACS).*
- *Chemotherapy drug treatments and toxicology assays.*
- *Peptide inhibition drug treatment and optimisation.*
- *Interleukin Elisa assay.*
- *Co-culture and conditioned media experiments.*
- *Gene expression microarray, sample preparation through to scanning.*
- *MicroRNA expression microarray, sample preparation through to scanning.*
- *Expression microarray genelist analysis.*
- *Successfully supervised 3 MSc students to date.*

Publications

Articles

Sulaiman G, Ferrara N, Elbahi A, Elbaruni S. Vitamin B12 Deficiency in Type 2 Diabetes Patients Using Metformin. *Alq J Med App Sci.* **2023**;6(1):160-165. <https://doi.org/10.5281/zenodo.781397>

Sulaiman.G et al, MyD88 is an essential component of retinoic acid induced differentiation in human pluripotent embryonal carcinoma cells. *Cell Death & Differentiation*, **2017**. doi: 10.1038/cdd.2017.124. PMID: 28885616.

Brendan Ffrench, Claudia Gasch, **Gomaa Sulaiman**, Olayemi Azeez Abdullai, Ronan Knittel, John O'Leary, Michael Gallagher, Differentiated Cells Secrete Factors That Can Proliferate-Arrest and Force Differentiate Pluripotent Embryonal Carcinoma Stem Cells. *Laboratory Investigation*, **2015**

Naughten ER, Mayne PD, Monavari AA, Goodman SI, **Sulaiman G** Glutaric aciduria type 1: outcome in the Republic of Ireland. *Journal of Inherited Metabolic Disease*.**2004**, 27(6): 917-920. PMID: 15505400

Peer review records

- Staff Capacity and Management of Diabetic Patients at Mnazi Mmoja Hospital in the Urban District of Unguja – Zanzibar
Asian Journal of Medicine and Health 12-12-2023

- Diabetes and Alternative Treatment Models Journal of Advances in Biology & Biotechnology 29-11-2023
- Epidemiological, Clinical and Radiological Profile of Patients Hospitalized for Covid19 at the Epidemic Treatment Centre of the Fann Hospital, Dakar During the Third and Fourth Waves Asian Journal of Research in Infectious Diseases 22-11-2023
- Evaluating the Impact of Metformin and Vitamin B12 Levels in the Treatment of Diabetes European Journal of Clinical and Experimental Medicine 27-09-2023

Annual Meetings

- 2015. Sulaiman et al.** MyD88 is a Differentiation Gatekeeper in Nullipotent Embryonal Carcinoma Stem Cells. United States and Canadian Association of Pathologists (USCAP) Annual Meeting
- 2015. Sulaiman et al.** Inhibition of MyD88 Facilitates Primed-State transition During Differentiation of Nullipotent Embryonal Carcinoma Cancer Stem Cells. Pathology Society of Great Britain and Ireland (PathSoc) Annual Meeting
- 2015. Sulaiman et al.** Inhibition of MyD88 Facilitates Primed-State transition During Differentiation of Nullipotent Embryonal Carcinoma Cancer Stem Cells. Irish Association of Cancer Researchers (IA-CR) Annual Meeting
- 2014. Sulaiman et al.** Inhibition of MyD88 Permits Forced-Differentiation of Nullipotent Embryonal Carcinoma Cancer Stem Cells. IA-CR Annual Meeting
- 2013. Sulaiman et al.** Secretion of Specific Toll-Like Receptor Signaling Proteins in the Response of Embryonal Carcinoma Cancer Stem Cells to Differentiation, Hypoxia and Chemotherapy. IA-CR Annual Meeting.

Referees Upon request