

Curriculum Vita

Name: Manal Mohamed saber Youssef

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Place of Birth: Bani Mazar, Minia, Egypt

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Education:

- **Ph.D.** (2006): Nottingham University (UK)
- **MPhil** (2003) Nottingham University (UK)
- **MSc** in (Clinical Pathology) (1997): Faculty of Medicine, Minia University (Egypt)
- **MD** (Clinical Pathology) (2007): Faculty of Medicine, Minia University (Egypt)
- **Bachelor in Medicine and Surgery (1992):** Faculty of Medicine, Minia University, Egypt.

Positions:

- Assistant Professor of clinical pathology (2017-to date)** in clinical pathology Department, Faculty of Medicine, Minia University (Egypt).
- Lecturer of clinical pathology (2007-to 2016)** in clinical pathology Department, Faculty of Medicine, Minia University (Egypt).
- Ph.D. researcher** (2002-2006) in Nottingham University (UK)
- Assistant lecturer of clinical pathology (1997-2002)** in clinical pathology Department, Faculty of Medicine, Minia University (Egypt).
- Demonstrator of clinical pathology (1994-1996)** in clinical pathology Department, Faculty of Medicine, Minia University (Egypt)
- **Medical General Practitioner (1993-1994)** in Minia University hospital, Faculty of medicine, University of Minia (Egypt).

Awards:

Egyptian Ministry of Higher Education scholarship sponsoring a 4-years **Ph.D.** Nottingham University, UK, (2002-2006)

Memberships

- Egyptian Society of laboratory medicine

Appointments: -

-**Faculty of Medicine, Minia University** (Egypt): Assistant Professor Of clinical pathology (2017)

-**Faculty of Medicine, Minia University** (Egypt): Lecturer Of clinical pathology (2007)

-**Nottingham University** (UK): PhD researcher (2002)

-**Faculty of Medicine, Minia University** (Egypt): Ass. Lecturer of Clinical pathology (1997).

-**Faculty of Medicine, Minia University** (Egypt): Demonstrator of clinical pathology (1994)

MAIN Research:

- Immunology and immune-oncology studies

- Immunotherapy studies

-Cancer studies

Teaching qualifications

Teaching immunology course to under and post-graduates in basic, tumor and clinical immunology and participation of putting immunology curriculum. Participation in exams for undergraduates and MSc postgraduates in immunology'

Updating of educational process

Participation in updating of immunology labs; Participation in immunotherapy labs
Participation in updating of quality programs; Participation in updating of curriculum programs of MSc, MD and Bachelor.

Scientific and Thesis supervision

Thesis supervision for MSc and PhD students for clinical pathology degree, Participation in department plan and updating of immunology and immunotherapy labs. Participation in international collaboration.

Experience and practical training in UK and Egypt:

Training in, and allowed to carry out experiment using, the following techniques: Immunohistochemistry for different types of lymphocytes and tumor cells, double immunocytochemistry for different types of lymphocytes and tumor cells ; immunofluorescence; PCR and Q-PCR, primers design, ELISA; western blotting; flow cytometry on lymphocytes, tumor cells; tissue and cell culture techniques; treatment of cells, assessment of cell viability and death, Lymphocytes separation and culture, Co-culture models of lymphocytes or Jurkats cells with other cells in vitro modelling to study cellular interaction between cancer cells and human T lymphocytes; quantification, co-culture of tumor cells and immune effector cells to model tumor environment; fluorometric detection; assessment of hypoxia, immunotherapy techniques, animals models, transgenic mice, laboratory techniques, biomarkers assessment.

Courses taught modules attended included teaching in the following areas in UK

Introduction to signal pathway; Basic Immunology, Clinical Immunology, Oncogenes and tumor suppressor genes; Immune response; Molecular biology of cell cycle; Growth factors and receptors; Cytokines; tumor hypoxia; Molecular biology of cell cycle; Molecular and cellular aspects of apoptosis; tumor Immunology including Humoral, cellular and innate immunity, Immune surveillance, Antibody therapies and cancer vaccines, Antigenic targets, Antigen presentation, Clinical trials design; a Cancer vaccine workshop; DNA structure and function, Carcinogenesis; Tumor vasculature (Structure and function), Tumor growth kinetics, angiogenesis and vascular mediated strategies, Growth factors and receptors, The biology of metastasis; Diagnostic techniques (Immunohistochemistry, Flow Cytometry, Molecular Markers; Cancer Statistics; Techniques in Cellular and Molecular Biology including Immunohistochemistry and related techniques; Flow cytometry; In situ hybridization; Methods of assessing DNA and chromosomal damage; Mutational analysis; Applications of the polymerase chain reaction (PCR); DNA sequencing; Southern and Northern blots; DNA cloning strategies; Preparation and analysis of cDNA libraries; Mammalian cell transfection techniques; Protein purification and analysis; Transgenic mice; techniques for primary cell isolation; immunity and immune system; tumor hypoxia; assessment of cytotoxicity.

Additional general educational courses of the graduate school attended in UK and Egypt

An introduction to SPSS; MS Excel and data analysis; building a bibliography; visual basic for advanced applications; an introduction to quantitative research; a beginner guide to HTML; getting more from Microsoft Office; how to prepare an effective poster presentation; writing abstracts; finishing your thesis and preparing for viva; power point skills; introduction to qualitative research; computing molecular biology; introduction to library skills; and advanced; Endnote and reference manager, library skills, **developing qualification courses for university staff etc.**

Presentations

Poster presentations

British cancer research meeting, 2004 27th-30th June 2004. Poster title: p43/EMAP-II expression in colorectal cancer is associated with hypoxia and lymphocyte infiltration.

October 2005. EACR meeting. Poster entitled p43/EMAP-II expression in colorectal cancer is associated with hypoxia, enhanced lymphocyte infiltration and apoptosis

April 2006 AACR international conference in Washington USA. Poster entitled p43/EMAP-II expression in colorectal cancer is associated with hypoxia and enhanced lymphocyte apoptosis. Manal MS Youssef, Peter Symonds, Ian O Ellis, Cliff Murray

January 2017 PVRI annual world congress Miami USA. Evaluation of tumor produced EMAP II as a T-lymphocyte apoptosis inducing and potentially immune suppressive mechanism

Oral presentations

April 2009 Assiut Clinical Pathology conference in Assiut Egypt. Immune suppression in cancers.

January 2017 PVRI annual world congress Miami USA. Evaluation of the diagnostic and prognostic performance of urinary Nitric Oxide in children with pneumonia markers.

July 2017 2nd International Conference on Tumor & Cancer Immunology and Immunotherapy Chicago USA. Emap-II-induced immune suppression in colorectal cancer

July 2017 2nd International Conference on Tumor & Cancer Immunology and Immunotherapy Chicago USA. Diagnostic and prognostic markers in Non-Hodgkins Lymphoma.

October 2017 International Conference on Oncology and Cancer Therapeutics Chicago USA. Novel immunotherapy for non-Hodgkin lymphoma using vaccine of cancer cells with anti-IL-19 antibodies

November 2017 Joint Conference 9th World Congress and Expo on Immunology, Immunity Inflammation & Immunotherapies Atlanta USA. Therapeutic impact of EMAP II and CD13 expression in colorectal cancer.

December 2017 HLA typing workshop Minia Nephrology University Hospital. HLA typing and transplantation

April 2019 laboratory medicine conference. Immunotherapy in Egypt: Now and then

Courses. Seminars and workshops in Immunotherapy

- Courses; seminars and workshops including monoclonal Antibody therapies; cancer vaccines; Clinical trials design; immune boosting; Cell transfer; CAR T-cell; check point inhibitor; Cytokines; Immunotherapy techniques; How immunotherapy works, who receives therapy; how to tell if it is working; side effects; duration of immunotherapy in UK and USA

Training and workshops in HLA typing and Transplantation

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-Training on HLA typing and Antibody screening Using the Luminex™ Multiplex Technology in September 2017 in Minia Nephrology University Hospital

-Training on HLA typing and Antibody screening Using the Luminex™ Multiplex Technology in July 2017 in Minia Nephrology University Hospital

-Workshop on HLA typing and Antibody screening Using the Luminex™ Multiplex Technology from 27th to 28th December 2017 in Minia Nephrology University Hospital

-Workshop on HLA typing Cross matching; Flowcytometry; Luminex™ Multiplex Technology and Antibody screening from 4th to 7th February 2018 in Kobry El-Koba, Military Hospital

Annual Meetings

- Egyptian society of laboratory meetings from 2007 up to 2019 and from 1997 to 2001.
- Egyptian Society of Hematology in 2010 and 2014
- April 2009 Assiut Clinical Pathology conference in Assiut Egypt.
- January 2017 PVRI annual world congress Miami USA.
- July 2017 2nd International Conference on Tumor & Cancer Immunology and Immunotherapy Chicago USA.
- July 2017 2nd International Conference on Tumor & Cancer Immunology and Immunotherapy Chicago USA.
- October 2017 International Conference on Oncology and Cancer Therapeutics Chicago USA.
- November 2017 Joint Conference 9th World Congress and Expo on Immunology, Immunity Inflammation & Immunotherapies Atlanta USA.

Memberships:

- Egyptian Society of laboratory medicine; Egyptian Society of Hematology; Egyptian Society of clinical chemistry
- Editorial board of many journals e.g. Journal of allergy and immunology, annals of clinical and experimental immunology and others

Publications:

- *Manal Mohamed Saber (2019) Cancer immunotherapy in Egypt: Now and then.*
- Chelvanambi S, Bogatcheva NV, Bednorz M, Agarwal S, Maier B, Alves NJ, Li W, Syed F, **Saber MM**, Dahl N, Lu H, Day RB, Smith P, Jolicoeur P, Yu Q, Dhillon NK, Weissmann N, Twigg Iii HL, Clauss M **(2019)** HIV-Nef Protein Persists in the Lungs of Aviremic Patients with HIV and Induces Endothelial Cell Death. Am J Respir Cell Mol Biol. 60(3),357-366.
- Saber MM and Clauss M (2017)** Emap-II-induced immune suppression in colorectal cancer. Immunotherapy; 10.4172/2471-9552-C1-005
- Saber MM and Clauss M (2017)** Diagnostic and prognostic markers in Non-Hodgkin's Lymphoma. Immunotherapy; 10.4172/2471-9552-C1-005

Manal Mohamed Saber, Rana Torabi, Sarvesh Chelvanambi, Catherine Ruffato Sears and Matthias Clauss **(2017)** Evaluation of tumor produced EMAP II as a T-lymphocyte apoptosis inducing and potentially immune suppressive mechanism. PVRI Congress <https://doi.org/10.1177/2045893217730218>

Manal Mohamed Saber and Matthias Clauss **(2017)** Evaluation of the diagnostic and prognostic performance of urinary Nitric Oxide in children with pneumonia markers. PVRI Congress <https://doi.org/10.1177/2045893217730218>

Al-Sharkawy E, Ghobrial AG, Eldin AMK, Saber MM, Aboul-Fotoh LE and El-Deen HTG (2017) Role of BIRC5 Gene as a Prognostic Marker in Pediatric Acute Lymphoblastic Leukemia. J Blood Lymph 7: 152

Saber MM and Clauss M (2016) Serum levels of Endothelial Monocyte-Activating Polypeptide in Hepatitis C Patients. Immunome Res 12: 117

Saber MM (2016) The Use of the Cytokines EMAP-II, IL-19 and IL-10 as Biomarkers to Determine Prognosis of Non – Hodgkin’s Lymphoma. J Clin Cell Immunol 7:4

Saber MM (2016) The Clinical Significance of Both IgM and IgG Anticardiolipin Antibodies in Non-Hodgkin’s Lymphoma. J Clin Cell Immunol 7:3

Kamal Eldin AM, Saber MM, Higazi A, Helmy AK, Mohamed HI and Aly AA (2016) Evaluation of the Diagnostic Performance of Soluble Human Leukocyte Antigen G versus α -Fetoprotein for Hepatitis C Virus-Induced Hepatocellular Carcinoma. J Clin Cell Immunol 7:3

Saber MM (2016) Serum Antinuclear Antibodies as indicator of relapse In Patients with Non-Hodgkin’s Lymphoma. J Clin Cell Immunol 7 (459) 2

ZM Saad, AG Ghobrial, LH Ali, MM Saber, SM Mohamed (2016) Hyperfibrinolysis underlies abnormal hemostasis in patients with advanced liver cirrhosis. The Egyptian Journal of Haematology 41 (2): 50 - 55

Youssef MMS, Paish EC, Murray JC, Farag NM, Saleh K, Ellis IO (2015) Tumor Infiltrating T Lymphocytes and Apoptosis in Colorectal Cancer. Egyptian Journal of Immunology 22 (1) 19-28

Youssef MMS, Paish EC, Murray JC, Farag NM, Saleh K, Ellis IO (2014) Apoptosis of T-cell subsets in colorectal cancer in vivo. Egypt J Immunol.(2):61-74

MM Mahmoud, AAM El-Mazary, RM Maher, MM Saber (2011) Zinc, ferritin, magnesium and copper in a group of Egyptian children with attention deficit hyperactivity disorder. Italian Journal of pediatrics 37 (1), 60

Youssef MMS, Heng YM, Powe DG, Edgson J, Ellis IO, Murray JC (2010) Hypoxia-Induced EMAP-II Transcription in Colorectal Cancer. *Egyptian Journal of Immunology* 17 (2) 121-129

MMS Youssef, P Symonds, IO Ellis, C Murray (2006) P43/EMAP-II expression in colorectal cancer is associated with hypoxia and enhanced lymphocyte apoptosis. *Cancer Research* 66 (8 supplement): 1118

Youssef MMS, Symonds P, Ellis IO and Murray JC (2006) EMAP-II-dependent lymphocyte killing is associated with hypoxia in colorectal cancer. *British Journal of Cancer* 95, 735–743.

MMS Youssef (2006). The biological role and clinical significance of EMAP II expression in colorectal cancer. University of Nottingham

Manal MS Youssef, Peter Symonds, Ian O Ellis, Cliff Murray (2006) P43/EMAP-II expression in colorectal cancer is associated with hypoxia and enhanced lymphocyte apoptosis. *Cancer Research* 66 (8 supplement): 1118

M Youssef, P Symonds, IO Ellis, JC Murray (2005) P43/EMAP-II expression in colorectal cancer is associated with hypoxia, enhanced lymphocyte infiltration and apoptosis. *EJC SUPPLEMENTS* 3 (2), 149-150

- **M Youssef, P Symonds, JC Murray (2004)** p43/EMAP-II expression in colorectal cancer is associated with hypoxia and lymphocyte infiltration. *British Cancer Research Meeting 2004 Volume: 91*

Manal Mohamed Saber (1997) Evaluation of Dimension and Human reagents by using autoanalyzer Dimension ES. Minia University