

Dr Ayman Antoun PhD

Research Fellow

Contact details

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School of Cancer Sciences
College of Medical and Dental Sciences



About

Ayman Antoun obtained his PhD and Licenciate in Cell and Molecular Biology from Uppsala University, Sweden in 2003, and his BSc (Hons) in Pharmacy from University of Cairo in 1997.

Ayman is a Research Fellow in the School of Cancer Sciences, College of Medical and Dental Sciences.

Ayman has published research papers in scientific journals as EMBO J. and molecular cell in the fields of Protein synthesis, Stem Cell Transplant and ImmunoGenetics. He is funded by a grant from Leukaemia and Lymphoma Research.

Qualifications

- Postgraduate Certificate Learning and Teaching in Higher Education (2011)
- PhD from Uppsala University-Sweden (2005)
- Licenciate in Cell and Molecular Biology- Uppsala University-Sweden (2003)
- BPharm with "excellent grade-high honors" - Faculty of Pharmacy, Cairo University, Egypt

Biography

Ayman Antoun qualified with a BPharm with "excellent grade-high honors" from the University of Cairo in 1997. He went on to study for a PhD in Molecular Biology before joining the School of Cancer Sciences in 2005. Ayman has focussed his research in Birmingham on the role of immunological factors on the clinical outcomes of Stem Cell Transplant. He has conducted studies on HLA-E and NKG2D ligands extent of variation in different human populations.

Teaching

- Infection, Immunity and haematology module for 2nd year medical students
- Cancer to Cures for 2nd year medical students

Postgraduate supervision

Ayman is interested in supervising doctoral research students in the area:

- the role of immunological factors on Stem Cell Transplant outcomes.

Research

Research Themes

Immunogenetics, Tumour Immunology and Stem Cell Transplant

Research Activity

Role of NKG2D and their ligands in Stem Cell Transplant

The main emphasis of his work has been on the role of NKG2D and its ligands on the clinical outcomes of Stem Cell Transplant. Ayman is involved in establishing a big UK consortium for the study of the role of immunological factors on the clinical outcomes of Stem Cell Transplant such as GvHD, Relapse free Survival and Overall Survival.

Other activities

Producing specific antibodies for NKG2D ligands

Ayman is working on producing specific antibodies for NKG2D ligands, especially the RAET1/ULBP family. These proteins are interesting as they are associated with the outcomes of Stem Cell Transplant.

Publications

Antoun A, Pavlov MY, Andersson K, Tenson T, Ehrenberg M. (2003) The roles of initiation factor 2 and guanosine triphosphate in initiation of protein synthesis. EMBO J. 22(20): 5593-601.

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Antoun A, Pavlov MY, Lovmar M, Ehrenberg M. (2006). How initiation factors tune the rate of initiation of protein synthesis in bacteria. *EMBO J.* 25(11):2539-50

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Pavlov MY, Antoun A, Lovmar M, Ehrenberg M. (2008). Complementary roles of initiation factor 1 and ribosome recycling factor in 70S ribosome splitting. *EMBO J.* 27(12):1706-17.

Antoun A, Jobson S, Cook M, Moss P, Briggs D. (2009). Ethnic variability in human leukocyte antigen-E haplotypes. *Tissue Antigens* 73(1):39-45.

Antoun A, Jobson S, Cook M, Moss P, Briggs D. (2010). SNP analysis of the NKG2D Ligand Cluster on the Long Arm of Chromosome 6: Extensive Polymorphisms and Evidence of Diversity between Human Populations. *Human Immunology* 71(6):610-20.

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