

Dr. Murad Ali Mubaraki, B.Sc., MSc (with Distinction), PhD

Primary Work and Contact Address:

Clinical Laboratory Sciences Department
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Areas of Interests:

Cell biology, microbiology and parasitology, metabolism, mitochondria, apicoplast, biochemistry, '-omics'-related science, HPLC and mass spectrometry, pharmacometabolomics.

Educational Qualifications:

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| 2009 – 2013 | PhD degree in Tropical Medicine, Liverpool School of Tropical Medicine, University of Liverpool, United Kingdom. |
| 2008 – 2009 | MSc degree with Distinction in Molecular Biology of Parasites and disease Vectors, Liverpool School of Tropical Medicine, University of Liverpool, United Kingdom. |
| 2000 – 2004 | BSc degree in Medical Technology, Faculty of Applied Medical Sciences, King Abdulaziz University, Saudi Arabia. |

Employment History:

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| 2013 – Present | Assistant Professor in Clinical Laboratory Sciences, College of Applied Medical Sciences, King Saud University, Saudi Arabia. |
| 2006 – 2013 | Teaching Assistant in Clinical Laboratory Sciences, College of Applied Medical Sciences, King Saud University, Saudi Arabia. |
| 2005 – 2006 | Medical Technologist in Serology and Immunology Division; Pathology and Laboratory Medicine Department (Accredited by College of American Pathologist), King Abdulaziz Medical City, National Guard Hospital, Jeddah, Saudi Arabia. |
| 2004 – 2005 | Medical Technology Laboratory Trainee, King Abdulaziz University Hospital, Jeddah, Saudi Arabia. |

Clinical Laboratory Sciences Department Assignment:

2013 – Present	Head of CLS Laboratories Committee.
2013 – Present	Head of CLS Community Service Committee.
2013 – Present	Member of CLS Student Internship Committee.
2013 – Present	Member of CLS department council.

Research Skills and Medical Laboratory Experience:

- ❑ Pharmacokinetics and metabolomics techniques such as HPLC, mass spectrometry, extra- and intracellular metabolites extraction, drugs extraction, and data analysis using software based-mass spectrometry.
- ❑ Molecular biology techniques such as DNA and RNA extraction, PCR and RT-PCR, cloning and subcloning, gene sequencing, gene silencing (RNAi), single and double restriction enzymes digestion, and gel electrophoresis.
- ❑ Immunological techniques such as direct and indirect ELISA, immunofluorescent assay, hemagglutination assay, and western blot.
- ❑ Biological techniques such as cell culturing, cell imaging using light microscope, confocal microscopy and Operetta® High Content Imaging System.
- ❑ Bioinformatics techniques for studying and analyzing of transcriptomics, proteomics, and metabolomics data.
- ❑ Medical laboratory diagnostic techniques using standards and quality controls in accordance with the CAP (College of American Pathologist) and AABB (American Association of Blood Bank).

Extracurricular Activities:

2009 – Present	Member of British Society for Parasitology, UK.
2011 – 2013	Member of Biochemical Society, UK.
2011 – 2012	General Executive Security of Saudi Students Clubs and Schools in UK and Ireland.

2009 – 2010	Member of the organization committee for Saudi's Day held at Liverpool University, UK.
2009 – 2010	Member of organizing committee of Alwahyan competition for Saudi students clubs and schools in the UK and Ireland, UK.
2011 – 2012	Coordinator of Scientific Committee, The 5 th Saudi International Conference (SIC-2011), Warwick University, UK.
2007 – 2013	Member of the Liverpool Saudi Club, Liverpool, UK.
2004 – 2005	Member of the Organizing committee for the First Medical Technology Student Meeting, King Fahd Medical Research Center, King Abdulaziz University, Saudi Arabia.

Scientific Posters and Presentations:

- ❑ **Murad A Mubarak**i, Steve A Ward and Giancarlo A Biagini (2012). Metabolic Fingerprinting of *Plasmodium falciparum*. *British Society for Parasitology*. University of Strathclyde, Glasgow, UK.
- ❑ **Murad A Mubarak**i, Steve A Ward and Giancarlo A Biagini (2011). Targeted Metabolomics of Mitochondrial and Mitochondrial-Related Metabolism in the Human Malaria Parasite *Plasmodium falciparum*. *Seventh Annual BioMalPar Conference on The Biology and Pathology of the Malaria Parasite*, EMBL Advanced Training Centre, Heidelberg, Germany.
- ❑ **Murad A Mubarak**i, Steve A Ward and Giancarlo A Biagini (2011). Targeted Metabolomics of *Plasmodium falciparum*. *British Society for Parasitology*. University of Nottingham, Nottingham, UK.
- ❑ **Murad A Mubarak**i, Steve A Ward and Giancarlo A Biagini (2011). Metabolomics of *Plasmodium falciparum*. The 71st Harden Conference on Metabolic Pathway Analysis. University of Chester, Chester, UK.
- ❑ **Murad A Mubarak**i, Ashley J Warman, David Waterhouse, Giancarlo A Biagini and Steve A Ward (2010). Characterisation of Energy Metabolism of the Human Malaria Parasite, *Plasmodium falciparum*. *LSTM Annual Postgraduate Research Seminar Day*, Marriott Hotel, Liverpool, UK.

Awards and Prizes:

- 2012 **Cambridge University Press and BioMed Central Prize for Best Talk**, British Society for Parasitology 50th Spring Meeting, University of Strathclyde, Glasgow, UK.
- 2011 **Best Student Researcher Prize for Poster Presentation**, Liverpool School of Tropical Medicine, University of Liverpool, UK.
- 2010 **Distinguished Student Award**, Royal Embassy of Saudi Arabia, Saudi Arabia Cultural Bureau, London, UK.
- 2005 **Distinguished Student Award** , King Abdulaziz University, Saudi Arabia.

Publications:

- Biagini, G.A., Fisher, N., Shone, A.E., **Mubaraki, M.A.**, Srivastava, A., Hill, A., *et al.* (2012). Generation of quinolone antimalarials targeting the *Plasmodium falciparum* mitochondrial respiratory chain for the treatment and prophylaxis of malaria. *Proceedings of the National Academy of Sciences of the United States of America* **109**, 8298-8303.
- Sant'Anna, M.R.V., Diaz-Albiter, H., **Mubaraki, M.**, Dillon, R.J. and Bates, P.A. (2009). Inhibition of trypsin expression in *Lutzomyia longipalpis* using RNAi enhances the survival of Leishmania. *Parasites & Vectors* **2**.