

TAREK M. GIBREEL

B.Pharm; M.sc; Ph.D

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Education

University of Manchester, Faculty of Medical and Human Sciences

Ph.D in Medical Microbiology, (March 2011)

Thesis: “Molecular epidemiology of Uropathogenic *Escherichia coli* in North West England and characterization of the ST131 clone in the region”

University of Tripoli, Tripoli-Libya

M.sc in Medical Microbiology and Immunology, (January 2000)

Dissertation: “Urinary tract infection in Children”

B.sc in Pharmaceutical Sciences, (July 1989)

Graduation Dissertation: “Synthesis and evaluation of ampicillin-conjugated Beeswax microspheres for sustained release”

Training Courses

Isolation and Identification of Diarrhoeal Causative Agents. (1993) Alfateh University/ Faculty of Medicine.

Laboratory Diagnosis of Neisseria gonorrhea and Urinary Tract Infections. (1993) Alfateh University/ Faculty of Medicine.

Employment History

Head of infection prevention and control in healthcare facilities department (2017–present), IPC admin., NCDC, Libya

Head of Medical Microbiology and Immunology department (2016 – 2018)

Assistant Professor (2016- present) Department of Microbiology, Faculty of Medicine, University of Tripoli, Libya.

Lecturer (2013 – 2015) Department of Microbiology, Faculty of Medicine, University of Tripoli, Libya.

Research associate (2011 – 2013)

School of Chemistry, University of Manchester, UK

Rapid culture independent identification and antibiotic resistance profiling of pathogenic bacteria

School of Medicine, University of Manchester, UK

Characterization and recombinant expression of epidermin N101 bacteriocin produced by *Staphylococcus epidermidis*

School of Medicine, University of Manchester, UK

Teaching molecular epidemiology course in medical microbiology postgraduate program, University of Manchester, UK

Lecturer assistant (2003-2006) University of Tripoli, Tripoli-Libya

Assist in teaching Medical Microbiology courses at Faculties of Medicine and Dentistry

Director of Molecular diagnostic Dept (2004-2006) Tripoli Central Hospital, Tripoli-Libya

In addition to administrative work, was responsible for molecular diagnosis of sexual transmitted diseases and others such as *Mycobacterium tuberculosis* and *Candida albicans* associated infections

Director of Microbiology Dept. (2000-2004) Tripoli Central Hospital Tripoli-Libya

Microbiologist (1995-2000) Salah Eddin Hospital Tripoli-Libya

Research assistant (1990-1995) Public Health Laboratories Tripoli-Libya

Conduct research on the characterization of Aflatoxins and other Mycotoxins resulted in development and improve prevention guidelines of Mycotoxin contamination of animal feed.

Consultations and Memberships

Libyan National Centre for Infectious Disease Prevention & Control (2005-present)

- WHO national focal point regarding development and implementation a national antimicrobial resistance action plan (2016-present)
- Head of Antimicrobial resistance coordination committee, NCDC, Libya
- Member of Infection prevention and Control Committee, NCDC, Libya (2013-present)
 - Development of national infection prevention and control policy
 - Teaching Medical Microbiology in Infection Control diploma program
 - Provide consultations for different health facilities involving hospital associated infection.
- Development of laboratory intervention strategy as part of national response plan for avian influenza. (2005)

Covid – 19 pandemic (2020 – present)

Scientific Consultancy Committee for Covid 19

- Epidemiology consultant for the SCC
- Member of the IPC TWG at the SCC

IPC Consultant for UNICEF – Libya (2020)

Member of the Scientific Consultancy Committee at the MoE (2020 – 2021)

Publications and Presentations

Alghoribi MF, Gibreel TM, Farnham G, Al Johani SM, Balkhy HH, Upton M. 2015. Antibiotic-resistant ST38, ST131 and ST405 strains are the leading uropathogenic Escherichia coli clones in Riyadh, Saudi Arabia. J Antimicrob Chemother

Majed F. Alghoribi, Tarek M. Gibreel, Andrew R. Dodgson, Scott A. Beatson, Mathew Upton (2014). Galleria mellonella Infection Model Demonstrates High Lethality of ST69 and ST127 Uropathogenic E. coli. PLoS ONE, 2014, Volume: 9, Issue: 7

Haitham Alrabiah, Yun Xu, Nicholas John William Rattray, Andrew Vaughan, Tarek Gibreel, Mat Upton, J William Allwood, Royston Goodacre and Ali Sayqal (2014). Multiple metabolomics of uropathogenic E. coli reveal different information content in terms of metabolic potential compared to virulence factors. Analyst, 2014, 139, 4193-4199.

Dawson SE¹, Gibreel T, Nicolaou N, Alrabiah H, Xu Y, Goodacre R, Upton M. (2014). Implementation of Fourier transform infrared spectroscopy for the rapid typing of uropathogenic Escherichia coli. Eur J Clin Microbiol Infect Dis. 2014 Jun;33(6):983-8. doi: 10.1007/s10096-013-2036-0.

M. Alghoribi*, T. Gibreel, A.R. Dodgson, M. Upton. (2013) Investigating virulence of uropathogenic Escherichia coli (UPEC) using Galleria mellonella larvae. ECCMID 2013 Berlin, Germany. (poster presentation)

Christopher Randall, Samantha Halliwell, Stephanie Sandiford, Tarek Gibreel, Peter Warn, Jeremy Derrick, Alex O'Neill and Mathew Upton (2013). Cell Membrane Damage Underlies the Antimicrobial Mode of Action of Epidermicin. Interscience Conference on Antimicrobial Agents and Chemotherapy 53rd ICAAC 2013, Denver, Colorado (poster presentation)

Tarek M Gibreel, Mathew Upton 2013. Synthetic epidermicin NI01 can protect Galleria mellonella larvae from infection with Staphylococcus aureus. J. Antimicrob. Chemother. (2013)68 (10): 2269-2273.

Gibreel TM, Dodgson AR, Cheesbrough J, Bolton FJ, Fox AJ, Upton M. 2012. High metabolic potential may contribute to the success of ST131 uropathogenic *Escherichia coli*, J Clin Microbiol. 2012 Oct;50(10):3202-7.

Gibreel TM, Dodgson AR, Cheesbrough J, Fox AJ, Bolton FJ, Upton M. 2012. Population structure, virulence potential and antibiotic susceptibility of uropathogenic *Escherichia coli* from Northwest England. J Antimicrob Chemother 67:346-356.

Tarek M. Gibreel, Frederick Bolton, John Cheesbrough, Andrew Fox, Andrew Dodgson and Mathew Upton. (2010) Identification of CTX-M-15 producing O25b-ST131 *Escherichia coli* isolates on the basis of distinct antibiotic susceptibility and metabolic profiles. 20th European congress of Clinical Microbiology and Infectious Diseases (ECCMID), Vienna, Austria. (Poster presentation).

Tarek M. Gibreel, Frederick Bolton, John Cheesbrough, Mathew Upton, Andrew Fox and Andrew Dodgson. (2010) Analysis of the mechanisms of fluoroquinolone resistance in clonal group ST131 uropathogenic *Escherichia coli*. 20th European congress of Clinical Microbiology and Infectious Diseases (ECCMID), Vienna, Austria. (Poster presentation).

Tarek M. Gibreel, Frederick Bolton, John Cheesbrough, Mathew Upton, Andrew Fox and Andrew Dodgson (2008) Genetic diversity and population genetic structure of uropathogenic *Escherichia coli* isolated in Manchester, UK. *Escherichia coli* national meeting, British Society for Antimicrobial Chemotherapy, London, UK. (Poster presentation).

Clermont, O, Dhanji, H, Upton, M, Gibreel, T, Fox, A, Boyd, D, Mulvey, M, Nordmann, P, Ruppé, E, Sarthou, J, Frank, T, Vimont, S, Arlet, G, Branger, C, Woodford, N, Denamur, E. (2009). Rapid detection of the O25b-ST131 clone of *Escherichia coli* encompassing the CTX-M-15-producing strains. J Antimicrob Chemother, Epub ahead of print, eScholarID:[1d19236](#) | DOI:[10.1093/jac/dkp194](#)

Jones GL, Warren RE, Skidmore SJ, Davies VA, Gibreel T, Upton M. (2008). Prevalence and distribution of plasmid-mediated quinolone resistance genes in clinical isolates of *Escherichia coli* lacking extended-spectrum {beta}-lactamases. J Antimicrob Chemother, 62(6), 1245-51. eScholarID:[1d17836](#) | DOI:[10.1093/jac/dkn406](#)

Gibreel TM., and Ghenghesh KS. (2002). Cysteine-Dependent Uropathogens: Isolation, Identification and Susceptibility to Antimicrobial Agents. Jamahiriya Med J; 2(2): 52-54.

Tarek M. Gibreel, Khalifa Ghenghesh. (2001) Urinary tract infections in teaching hospitals of Tripoli-Libya: Antibiotic resistance and Treatment. 2th International meeting on Antimicrobial Chemotherapy in Clinical Practice (ACCP), Milan, Italy (Poster presentation)

Tarek M. Gibreel, T. Ben-Hamida, M. Aboshkiwa. (2000) Increasing Prevalence of Antimicrobial Resistance among Uropathogens causing Urinary tract infections in Children. 9th International Congress on Infectious Diseases, Buenos Aires, Argentina.

Gibreel TM. and Elarbi H. (1997). Aflatoxin contamination in animal feed in Libya. 14th El-Magharibi conference for Veterinary Medicine. Tripoli, Libya

Gibreel T., Ben Darif I. and El-Buni A. (1996). Cryptosporidiosis in Paediatric Diarrhoea in Tripoli. 3rd . Al-Jamahiriya Medical Conference, Tripoli, Libya.