

Curriculum vitae – Dr Ozan Gundogdu

PERSONAL DETAILS: Nationality: British DOB: 22/06/80 Languages: English, Turkish & Spanish

EMPLOYMENT

2019 – present **Assistant Professor**, Department of Infection Biology, LSHTM
2011 – 2013 **Bill & Melinda Gates Foundation - Postdoctoral Researcher** – Department of Disease Control, LSHTM
2004 – 2019 **Principal Scientific Officer – Bioinformatician/Microbiologist**, Department of Infectious Diseases, LSHTM
2000 – 2001 **Research Assistant** (Industrial placement year) – RAFT, University College London

QUALIFICATIONS

2006 – 2011 PhD in Microbial Pathogenesis (part-time), LSHTM
2002 – 2003 MSc Computer Science (Commendation), University of Hertfordshire
1998 – 2002 BSc Honours in Molecular biology (2:1), University of Hertfordshire

RESEARCH FUNDING

- **\$4.80** Million BMGF Post-Doctoral researcher investigating metagenomics of pit latrines in Tanzania and Vietnam for optimum latrine decomposition. Department of DDC, LSHTM, June 2011 - June 2013, achieved 50% salary recovery. Outcomes: [PMID: 26875588].
- **£187,000** from Safefood as Co-Investigator with Dr Nicolae Corcionivoschi (AFBI) to study risk profiling of *Listeria* spp. in ready-to-eat foods (RTE) and determination of control strategies and practical interventions (2016). Outcomes: [DOI:10.1016/j.foodcont.2017.12.020].
- **£10,000** from Agri-Food and Biosciences Institute as Principal Investigator to study the effects of the natural antimicrobial peptide carvacrol on the delayed onset of *Campylobacter* (2016). Outcomes: [PMID: 28398869].
- **£50,000** from Moy Park as Principal-Investigator to study the gut microbiome of chickens over the course of 35 days and to investigate the onset of *Campylobacter* (2017). Outcomes [PMID: 30197638, PMID: 30374341].
- **£12,000** from Royal Society-Newton Mobility Grant as LSHTM Principal Investigator with Professor Suneel Korbsrisate (Mahidol University, Thailand) to study the impact of bacteriophages on adaptation and virulence on pathogenic *Burkholderia pseudomallei* and non-pathogenic *B. thailandensis* (2019).
- **£612,857** from Department of Agriculture, Environment and Rural Affairs (DAERA) as Co-Investigator with Dr Ramon Muns (AFBI) to study strategies to overcome the removal of zinc oxide from pig diets: maintaining advances in production and reduction of the use of antimicrobials (2020).
- **£453,979** from Department of Agriculture, Environment and Rural Affairs (DAERA) as Co-Investigator with Dr Ramon Muns (AFBI) to study influencing new born piglets microbiota: an innovative and applied approach (2020)

SELECTED PROFESSIONAL RESPONSIBILITIES, MEMBERSHIPS AND OUTREACH

2008 – Ongoing Associate member of the Microbiology Society
2009 – Ongoing Associate Faculty Member for F1000 Microbiology
2013 – Ongoing Fellow of the Higher Education Academy (FHEA)
2011 – Ongoing Interview panel for PhD and post-doctoral positions at LSHTM
2011 – 2013 LSHTM Postgraduate Certificate in Learning and Teaching (Full Certificate)
2011 – 2014 LSHTM Senate Council
2017 – 2017 LSHTM Management on the Horizon course
2018 – Ongoing Committee member for TAGC center
2018 – Ongoing Bioinformatics Instructor for The MRC Unit The Gambia Genomics Training Camp
2018 – 2019 Scientific committee member for CHRO 2019 (Belfast, NI)
2020 – Ongoing £2 Million MRC CLIMB-BIG-DATA strategic advisory group

HONORABLE POSITIONS

Honorary Professor

Banat university of Agricultural Sciences and Veterinary Medicine
King Michael I of Romania, Timisoara. Faculty of Bioengineering of Animal Resources

REFEREING & EDITOR ROLES

- 2019 – Ongoing Guest editor for *Frontiers in Microbiology* – Food microbiology. Research Topic - Developments in *Campylobacter*, *Helicobacter* & Related Organisms Research – CHRO 2019. In partnership with Professor Nicolae Corcionivoschi (AFBI) and Professor Stuart Thompson (University of Augusta).
- 2019 – Ongoing Guest editor for *Microorganisms* – Foodborne Pathogen *Campylobacter*. In partnership with Professor Nicolae Corcionivoschi (AFBI).

SUPERVISION

- 2006 – Ongoing Supervision of 10 MSc students for their summer projects
- 2006 – Ongoing Tutor for 12 MSc students throughout their course
- 2011 – Ongoing >30 staff/student supervision/advisory/support

PhD SUPERVISION

- 2016 – 2020 Co-supervisor of LSHTM PhD student Janie Liaw with Professor Nick Dorrell. Project - Investigation of the role of the *Campylobacter jejuni* Type VI Secretion System in bacterial secretion of virulence factors and interaction with host cells.
- 2018 – Ongoing Co-supervisor of LSHTM PhD student Geunhye Hong with Professor Nick Dorrell. Project - Investigating *Campylobacter jejuni* interactions with endoplasmic reticulum in intestinal epithelial cells resulting in induction of the unfolded protein response.
- 2018 – Ongoing Co-supervisor of RVC PhD student Elizabeth Attree with Dr Dong Xia (RVC). Project - A multi-omics approach to improve *Eimeria* functional genome annotation.
- 2019 – Ongoing Co-supervisor of RVC PhD student Eden Shaw with Dr Androniki Psifidi (RVC) - “Omics” based characterization of host genetics and gut microbiome composition in relation to pathogen abundance in chickens.

POST-DOCTORAL SUPERVISION

- 2020 – Present Supervisor of Dr Janie Liaw. Project - Investigation of the role of the *Campylobacter jejuni* Type VI Secretion System in bacterial secretion of virulence factors and interaction with host cells.
- 2019 – Present Co-supervisor of Dr Fauzy Nasher with Professor Brendan Wren. Project - Microbes in the Food Chain, as part of the Quadram Institute BBSRC Strategic Programme.

PUBLICATIONS

Selected from 42 publications: -

- 1) McKenna, M., U. Z. Ijaz, C. Kelly, M. Linton, W. T. Sloan, B. D. Green, U. Lavery, N. Dorrell, B. W. Wren, A. Richmond, N. Corcionivoschi[#], and **O. Gundogdu[#]**. 2020. Impact of industrial production system parameters on chicken microbiomes: mechanisms to improve performance and reduce *Campylobacter*. **Microbiome** 8:128. [#Joint Corresponding authors.](#)
- 2) Stratakos, A. C., U. Z. Ijaz, P. Ward, M. Linton, C. Kelly, L. Pinkerton, P. Scates, J. McBride, I. Pet, A. Criste, D. Stef, J. M. Couto, W. T. Sloan, N. Dorrell, B. W. Wren, L. Stef, **O. Gundogdu[#]**, and N. Corcionivoschi[#]. 2019. *In vitro* and *in vivo* characterisation of *Listeria monocytogenes* outbreak isolates. **Food Control** 107:106784. [#Joint Corresponding authors.](#)
- 3) Ijaz, U. Z., L. Sivaloganathan, A. McKenna, A. Richmond, C. Kelly, M. Linton, A. Stratakos, U. Lavery, A. Elmi, B. W. Wren, N. Dorrell[#], N. Corcionivoschi[#], and **O. Gundogdu[#]**. 2018. Comprehensive Longitudinal Microbiome Analysis of the Chicken Cecum Reveals a Shift from Competitive to Environmental Drivers and a Window of Opportunity for *Campylobacter*. **Frontiers in Microbiology** 9:2452. [#Joint Corresponding authors.](#)
- 4) **Gundogdu, O.**, T. D. da Silva, B. Mohammad, A. Elmi, B. W. Wren, A. H. van Vliet, and N. Dorrell. 2016. The *Campylobacter jejuni* Oxidative Stress Regulator RrpB Is Associated with a Genomic Hypervariable Region and Altered Oxidative Stress Resistance. **Frontiers in Microbiology** 7:2117.
- 5) Liverani, M., J. Waage, T. Barnett, D. U. Pfeiffer, J. Rushton, J. W. Rudge, M. E. Loevinsohn, I. Scoones, R. D. Smith, B. S. Cooper, L. J. White, S. Goh, P. Horby, B. W. Wren, **O. Gundogdu**, A. Woods, and R. J. Coker. 2013. Understanding and managing zoonotic risk in the new livestock industries. **Environmental Health Perspectives** 121(8):873-7.