



## Curriculum Vitae

Personal information **Tom Gaulton**

Work experience

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01/04/2015–Present

Health Protection Scientist

UK Health Security Agency, (United Kingdom)

- Member of the pool of experts on ad hoc rapid risk assessment of chemical threats under the EC Scientific Committee on Health, Environmental and Emerging Risks (SCHEER)
- Collaborator with the World Health Organisation (WHO) through the Collaborating Centre for the management of chemical exposures. This includes carrying out a JEE of Georgia as the chemicals expert and delivering webinars on rapid risk assessment.
- Provides project management and technical input to multiple EU-funded projects including:
- SHIPSAN Joint Action, Healthy Gateways Joint Action, SHARP Joint Action, TERROR Joint Action
- Technical input to ECHEMNET, EMETNET, Centre of Excellence Project 54, PHOENIX
- Undertakes assessments to determine the likely risks associated with a chemical release. Assess its potential impact by developing and applying specific suitable models and assessment tools. Represents PHE at other specialist centres for the purpose of information exchange, in emergency exercises and in the event of an actual emergency.
- Manages small projects and parts of larger projects in a particular defined area, and to work within a project team for both contract and non-contract projects.
- Conducts surveillance for chemical incidents, record findings and analyse data for publication
- Receive, assimilate and communicate technical and scientific information relating to chemicals
- Contribute to the interpretation of assessment results and decision making on future direction of work in consultation with others.
- Writing papers, book chapters, newsletter articles. Editor of RSC book Chemical Health Threats: Assessing and Alerting
- Present and discuss work relating to specialist area at internal seminars, contract meetings, workshops, training courses and international conferences.
- Prepare methodology documents, straightforward reports and papers and sections of complex reports, including incorporating material prepared by others.
- Contribute to identification of knowledge gaps and contract opportunities and the drafting of technical specifications for projects.

14/07/2011–31/03/2015

Senior Proteomics Scientist

Public Health England, London, (United Kingdom)

- Practical laboratory skills in microbiology, molecular biology, proteomics and mass spectrometry.
- Responsible for data generation, analysis and writing and distribution of project update reports
- Organising and hosting project update conference calls across multiple partners in the US and Europe
- Assisting in grant writing, manuscript preparation for journal submission and promotional newsletters
- Assisting in the maintenance of the LC-MS facilities
- Provide technical support and training in the field of proteomics and mass spectrometry
- Extensive data analysis using state of the art software packages
- Assisting with PhD student supervision and teaching on various

## Education and training

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07/2008–07/2011	PhD Medical Microbiology
	The Open University/Health Protection Agency, London, (United Kingdom)
	Assessing the value of proteomics with regards to investigating antimicrobial resistance mechanisms by elucidating proteinaceous factors involved in complex or novel mechanisms.
	Techniques include: Antimicrobial susceptibility tests, bacterial cell culture - both aerobic and anaerobic, various protein extraction techniques, protein fractionation and purification, 2-D electrophoresis, SDS-PAGE, quantitative labelling, protein digestion, protein identification by MALDI-TOF and LC-MS/MS mass spectrometry, Phenotype Microarrays
09/2007–07/2008	Post-Graduate Certificate in Education (PGCE)
	University of Bristol, Bristol, (United Kingdom)
	Specialised in Secondary science education (Chemistry)
09/2005–09/2006	MSc Molecular Medical Microbiology
	University of Nottingham, Nottingham, (United Kingdom)
	Modules included: Bacterial pathogenesis and infection; viral pathogenesis and infection; microbial and molecular technology; prevention and treatment of infection; research methods. Thesis: Investigation of the role of the major outer membrane protein of <i>Campylobacter jejuni</i> in infection
09/2002–06/2005	BSc Biochemistry and Biological Chemistry
	University of Nottingham, Nottingham, (United Kingdom)
	Modules included: Biochemistry of disease; genes and cellular control; cell structure and function; synthesis, stereochemistry and spectroscopy; protein structure and function.

## Additional information

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### Publications

- Global event-based surveillance of chemical incidents.  
**Gaulton T**, Hague C, Cole D, Thomas E, Duarte-Davidson R.  
J Expo Sci Environ Epidemiol. 2021 Nov 8:1-7
- Development of a mechanism for the rapid risk assessment of cross-border chemical health threats.  
Hague C, Orford R, **Gaulton T**, Thomas E, Hall L, Duarte-Davidson R.  
J Expo Sci Environ Epidemiol. 2021 Sep;31(5):876-886.
- Chemical Health Threats: Assessing and Alerting  
Editors: Raquel Duarte-Davidson, **Tom Gaulton**, Stacey Wyke, Samuel Collins  
Issues in toxicology, No. 38. London: The Royal Society of Chemistry; 2019.
  - Chapter 6 – Surveillance of Chemical Health Threats  
**Tom Gaulton**, Rob Orford, Charlotte Hague, Eirian Thomas and Raquel Duarte-Davidson  
Pages 96 – 113
  - Chapter 14 – Investigating Outbreaks of Unknown Aetiology  
S. Collins, **T. Gaulton** and T. James  
Pages 240 - 262
- Chemical warfare agent simulants for human volunteer trials of emergency decontamination: A systematic

review.

James T, Wyke S, Marczylo T, Collins S, **Gaulton T**, Foxall K, Amlôt R, Duarte-Davidson R.

J Appl Toxicol. 2018 Jan;38(1):113-121.

- Dissecting the taxonomic heterogeneity within *Propionibacterium acnes*: proposal for *Propionibacterium acnes* subsp. *acnes* subsp. nov. and *Propionibacterium acnes* subsp. *elongatum* subsp. nov.

Dekio I, Culak R, Misra R, **Gaulton T**, Fang M, Sakamoto M, Ohkuma M, Oshima K, Hattori M, Klenk HP, Rajendram D, Gharbia SE, Shah HN.

Int J Syst Evol Microbiol. 2015 Dec;65(12):4776-4787.

- Complete Genome Sequence of the Hypervirulent Bacterium *Clostridium difficile* Strain G46, Ribotype 027.

**Gaulton T**, Misra R, Rose G, Baybayan P, Hall R, Freeman J, Turton J, Picton S, Korlach J, Gharbia S, Shah H.

Genome Announc. 2015 Mar 26;3(2):e00073-15.

## Projects

- I have provided project management and technical input to multiple EU-funded projects including:
- SHIPSAN Joint Action, Healthy Gateways Joint Action, SHARP Joint Action, TERROR Joint Action
- Technical input to ECHEMNET, EMETNET, Centre of Excellence Project 54, PHOENIX

## Memberships

## Other Relevant Information