

Joseph Scott Zarins-Tutt



joseph@jztbiopharma.com



[Google Scholar profile](#)

PROFILE

- Creative, hardworking, and adaptable **deviation** and **CAPA** specialist with 4-years research experience in molecular biology and 5-years' experience within the pharmaceutical/medical device industry
- Experienced in the management of **cross-functional** projects within the pharmaceutical industry and academic research
- **Strong interpersonal skills** developed from mentoring students and interns, as well as liaising with external service providers, management, academics, and suppliers
- I am seeking a position where I can aid in the development and delivery an effective and efficient **QMS** within an innovative organisation

EMPLOYMENT HISTORY

November 2019 – Present: CAPA & Deviation Specialist at Mylan OSD Dublin (3 x contract renewals)

I work as an independent consultant driving Deviation closure and CAPA implementation within a tablet manufacturing site (>200 products). I work closely with both Quality, Manufacturing and Technical to determine the optimise process improvements whilst ensuring compliance and safety.

- Deviation Investigation: RCAs, Risk Analysis and FMEAs
 - Implemented improvements to deviation report format
 - Conduct/author RCAs, deviation reports, risk assessments and FMEAs
 - Work collaboratively with QA, Micro, QC and Technical to ensure timely closure of deviations
- Process mapping: IT systems and production processes
- CAPA closure and implementation: successful closure of 50 CAPA over the previous 6-months
- Implementation and management of change controls
- Authoring of SOPs and manufacturing documentation
- Delivery and coordination training material: Classroom based training and coordination
- Drive completion and closure of mini-projects with cross-functional teams
- Network and effectively communicate with different value-streams to ensure input and adoption from relevant teams
- Management and maintenance of documentation through Trackwise and Documentum
- Proficient in Microsoft Office

Dec 2018 – June 2019: GlobalData - Infectious Disease Analyst

Business Intelligence analyst working within the infectious disease team undertaking market research across HIV, HBV, GvHD and Antibiotic medications

- KOL interviews: Managed, conducted, and analysed primary research with KOLs in HBV and HIV
- Analysis and content production: Collated and analysed clinical data from a variety of sources for syndicated and bespoke market research reports and data packs
- Provision of data packs
- Competitive intelligence: Daily tracking of market events to generate clinical and disease insight

Jan 2017 – Nov 2018: GlaxoSmithKline – Operations and Quality

I worked within both the Operations and Quality department managing decontamination efforts across their primary fermentation site and compliance in secondary tablet manufacturing

- Deviation investigation
- Utilise lean investigation tools
- MPMP Decontamination project
- Authoring of manufacturing documentation

- Supported timely progression and closure of deviation through deviation clinics and daily deviation briefings
- Daily GEMBA's to ensure audit readiness

July 2016 – Dec 2016: IKA - Business Development

Account management for IKAs first UK subsidiary selling laboratory instruments and equipment

- Client presentations: produce client pitches based upon their bespoke requirements
- Maintaining and managing customer relationships and expectations, scheduling and appointments
- Logistical planning: led the organisation of IKA first show at Lab Innovation at the NEC 2016

October 2014 – Jul 2016: Philips Respironics - Medical Device Scientist

I worked on the development of smart mesh nebulisers testing aerosol output in terms of particle size and gravimetric output with different drug formulations.

- Report writing: Internal development reports, validation reports, external FDA 510(k) submissions & marketing data packs
- Technical documentation: Method development, SOPs, IQ & OQs
- Equipment maintenance
- Data analysis
- Project progress presentations

PROJECT EXPERIENCE

Synthetic Biology Projects

I was involved in multiple projects with external collaborators requiring frequent updates through provision of data packs, reports and presentations.

Projects included microbial strain development for the generation of antibiotic analogues for an industry collaborator, and the development of a novel photo-protection and extraction technique for marinomycin using pollen exines. The latter received significant media attention from [BBC World Service](#) and [The Times](#). Additionally, I designed, and project managed a research project for a team of 6 undergraduate students on antibiotic synthesis and testing. The students delivered several structural analogues and completed biological screening within the timeframe, finishing top of their cohort.

Laboratory relocation

Led the logistical operation for the relocation of Prof. Goss' research lab from UEA to St Andrews within a 6-week time frame. This included obtaining initial quotations, scope of chemical, bacterial and cold-chain requirements, and organising a *departure* and *arrivals* team.

MPMP Decontamination

Implemented and co-ordinated cross-functional projects within a multi-purpose manufacturing plant (MPMP) to reduce contamination risks. This included coordinating works with external contractors with the requirements of different internal functions such the QC labs, engineering and manufacturing.

COVID-19 Supplier shortage

I coordinated the sites rapid response to a disinfectant supply issues, ensuring compliance and integrity of our facilities was not compromised. The project spanned multiple functions including manufacturing, quality, packing, technical, supply and regulatory, requiring procedural updates, site communications, risk assessments and scheduling of enhanced microbial testing. The plan was implemented within a short 1-week time frame.

ACADEMIC EXPERIENCE

PhD: University of St Andrews

2010-2014 MRC Industrial CASE Studentship: Natural Product Drug Discovery

Thesis: *Gene Mining of Biosynthesis Genes and Biosynthetic Manipulation of Marine Bacteria for the Production of New Antibiotic Candidates*

Technical Experience: Bacterial fermentation, bacterial isolation, PCR, primer design, cloning, genome mining, SDS-PAGE, protein production, natural product detection, extraction purification and analysis, bio-activity assays, bio-transformations, organic synthesis, analytical chemistry, UPLC, LC-MS, MS-MS, NMR and other spectroscopic techniques

Teaching and Mentoring: I designed a research project for a team of 6 undergraduate students, coaching and mentoring them through the process as well as acting as project manager to ensure timely completion.

- Delivery of training through laboratory practical's
- Running and delivery of seminars and lectures (presentation)
- Coaching and mentoring

Conferences attended and presented at:

- The Chemistry and Biology of Natural Products VII, 2013, (University of Warwick)
- Bluegenics, 2012, (Mainz, Germany)
- NeaNat, 2011, (Naples, Italy)
- ESF Biotechnology Conference, 2010 (Bielefeld, Germany)

BSc: University of East Anglia

2006-2010: BSc Biological Science: 2:1 (1st class dissertation)

GRANTS, MEMBERSHIPS & ACTIVITIES

- 2021 Currently undertaking the *Present Prince2* project management course
- 2019-Present Member of the *High Value Biorenewables* network
Attended the HVB meeting in November 2019 on green/renewable production within the chemical industry
- 2019-Present Manage a successful air BnB
- 2019 Global Challenge Research Fund – Funding awarded
Consultative partner in the GCRF grant application for establishing commercial fermentation capacity with partner institutions in Kenya, Tanzania and Nigeria
- 2009 Awarded *Wellcome Trust* summer studentship at the John Innes Centre
- 2008 Gatsby summer school for plant biology

PUBLICATIONS

- A Natural Solution to the Photoprotection and Isolation of the Potent Polyene Antibiotic Marinomycin.
CS Bailey, JS Zarins-Tutt, M Agbo, H Gao, A Diego Taboada, M Gan, ER. Abraham, R Hamed, G Mackenzie, A Evans, RJM Goss; *Chemical Science*, 2019
- Bluegenics: Bioactive Natural Products of Medicinal Relevance and Approaches to Their Diversification
JS Zarins-Tutt, ER Abraham, CS Bailey, RJM Goss; *Blue Biotechnology*, 159-186, 2017.
- Prospecting for new bacterial metabolites: a glossary of approaches for inducing, activating and upregulating the biosynthesis of bacterial cryptic or *silent* natural pro...
JS Zarins-Tutt, TT Barberi, H Gao, A Mearns-Spragg, L Zhang, DJ Newman, RJM Goss; *Natural Product Report* 33 (1), 54-72, 2016
- Investigation of optical density for the characterization of nebulizer meshes
RHM Hatley, LEA Hardaker, J Zarins-Tutt, F Quadrelli, B Hogan, RM Loughlin, JN Pritchard; *Respiratory Drug Delivery*. 489-492, 2016

INTERESTS

I am passionate about the use of biotechnology for a sustainable future. I keep up to date with advances in the field through networks such as High Value Biorenewables (HVB) and regular contact with my PhD lab. Outside of science I enjoy cycling, baking and paddle boarding.