Dr Jay D. Freeman

30 The Lathes

Norwich

NR3 3DY

Tel: 07879 065857 | Email: drjdfreeman@yahoo.co.uk

*An enthusiastic, resourceful, and highly creative multi-disciplinary chemist and editor with five years of industrial experience, two years of academic experience, and over six years of editing and proofreading experience.*

# Employment History

## **Freelance Science Editor** *June 2014 – Present*

## Editing manuscripts, dissertations, research proposals, and papers by non-native English speakers.

## Consistently produced high-quality work to strict stylistic guidelines and tight deadlines.

* Although my main area of expertise is chemistry (including, but not limited to, organic, inorganic, pharmaceutical, electrochemistry, biochemistry, materials chemistry, polymer chemistry, catalysis, nanotechnology, and medicinal chemistry), I have extensive experience in editing manuscripts on molecular biology, dentistry, clinical medicine, environmental chemistry, neurochemistry, analytical chemistry, and forensic chemistry, as well as some experience of proofreading articles and manuscripts on the humanities, social sciences, literature, history, and psychology.

University College London, **Post-doctoral** *October 2012 – October 2014*

**Research Technician**

* Working in the group of Prof. Ijeoma Uchegbu, primarily on the **synthesis of amphiphilic biopolymers** and their application as self-assembling nanomedical agents for oral drug delivery.
* **Developed a new synthetic strategy** to GCPQ, a novel biopolymer.
* Used both standard batch chemistry and flow chemistry to **scale-up** production of biopolymers from milligram to multi-gram quantities.
* Oversaw the implementation of tangential flow filtration to replace bench-top dialysis in the group, and was **in-house expert** on that technique.
* **Devised a synthetic route**, utilising both standard synthetic chemistry and **solid-phase peptide synthesis**, to a cyclic neuropeptide prodrug, and **supervised** an Erasmus student on **a project I devised** resulting from that work.

## Cellzome (UK) Ltd., **Medicinal Chemist** *July 2007 – August 2012*

* Integral part of the team that **delivered pre-clinical candidates** against inflammation targets as part of the Cellzome GSK kinase collaboration.
* Used analysis of data from **primary assay, ADME and PK**, as well as Cellzome’s proprietary Kinobeads® technology, to drive compounds through lead optimisation.
* Designed and synthesised **novel kinase and epigenetic inhibitors** to meet demanding project objectives and strict timelines, successfully triggering milestone payments from collaborating companies.
* Experienced with use of **parallel synthetic technologies and purification techniques**.
* **Developed and implemented synthetic strategies** to target compounds, from milligram scale, intended for primary assay, **to multi-gram scale-ups** with > 99% purity, intended for toxicology studies.
* **Coordinated the submission of compounds** for Kinobead® profiling experiments across multiple projects, as well as developing methods for the analysis and visualisation of the resulting data.
* Was chosen as part of a small **project start-up team** which successfully completed modelling and synthesis of tool compounds for use against a range of epigenetic targets to develop Cellzome’s Episphere® Technology platform.
* Was **awarded the Cellzome Prize** for outstanding contribution to the company on two separate occasions.
* **In-house expert** on the Parr hydrogenation system.
* **Named inventor on several patents**.
* **Involved with interview process** of job candidates.

## Self-employed, **Freelance Musician** and *August 2004 – July 2007*

## **Semi-professional Poker Player**

* Following the completion of my PhD I took a hiatus from science to concentrate on my other great passion, music.
* I played in several bands, writing and performing original material.
* Sources of income during this time included performing classical-guitar recitals at functions, teaching guitar, theatre crew work.
* To supplement my income I played poker, successfully competing in international tournaments, both online and live.

## **Publications**

A. Lalatsa, A. G. Schätzlein, N. L. Garrett, J. Moger, Michael Briggs, Lisa Godfrey, Antonio Iannitelli, **Jay Freeman**, I. F. Uchegbu.

**Chitosan amphiphile coating of peptide nanofibres reduces liver uptake and delivers the peptide to the brain on intravenous administration**

*Journal of Controlled Release,* **197**, (2015), 87–96

## **Freeman, Jay**; Reader, Valerie; Addison, Glynn; Ramsden, Nigel; Scanlon, Jane Elizabeth; Harrison, Richard John.

## **Preparation of heterocyclyl pyrimidine analogues as Jak inhibitors** (2013), WO 2013014162 A1 20130131.

**Freeman, Jay**; Harrison, John; Kruse, Ulrich; Shepherd, Robert John; Wilson, David Matthew; Woodrow, Michael David.

**Preparation of phenyl oxy immobilization compounds and their use in identification of histone demethylase interacting molecules and the purification of histone demethylase proteins**

(2012),WO 2012150042 A1 20121108.

Sunose, Mihiro; Major, Jeremy; Harrison, Richard John; **Freeman, Jay**; Morel, Adeline. **Preparation of heterocyclylaminopyrimidines as kinase inhibitors**

(2010), WO 2010146133 A1 20101223.

**Education**

## University of East Anglia, Norwich and *June 1998 – August 2004*

## Universitat Techniche, Karlsruhe, Germany

PhD in Chemistry

* Supervisor: Prof. A. K. Powell
* Thesis title: Amino-acid mimic ligands: Synthons in supermolecular self-assembly systems

## University of East Anglia, Norwich *June 1997 – June 1998*

MSc in Advanced Organic Chemistry

## University of York *June 1994 – June 1997*

BSc (Hons) in Chemistry (2.ii)

**Skills and Training**

* Fully conversant with all aspects of practical, lab-based synthetic organic chemistry.
* Experienced user in Agilent HPLC, Biotage microwave systems, Parr hydrogenation systems, Coflore flow reactors, and Isolera purification systems.
* Competent user of analysis techniques such as LCMS, Prep. HPLC, SEC, QUELS, and NMR.
* Attended the RSC MedChem Summer School in 2010, among numerous other conferences.
* Literate in the following software packages: Cresset, MassLynx, Mestrec NMR, Openlynx, CambridgeSoft, Accelrys Discovery Studio, and MS office, among others.

# Interests

* **Music** – Both listening and performing. I am a keen concertgoer and have played the guitar both solo and in bands since childhood.
* **Cinema** – I host a weekly movie evening for friends and write reviews for Outline Magazine, a local arts and culture publication.
* **Reading** – I am an avid reader of both classic and contemporary fiction and non-fiction.
* **Chess** – I have been an enthusiastic club and tournament player since childhood and have represented both my city and county.
* **Running** – I run between 10 and 15 km per week.

# Referees

Dr. John Harrison

Cellzome UK

Chesterford Research Park

Saffron Walden

CB10 1XL

Tel: 01799 532824

Email: john.harrison@cellzome.com

Professor Annie Powell

Institut für Anorganische Chemie
Karlsruher Institut für Technologie

Engesserstr. 15 Geb. 30.45
76131 Karlsruhe

Germany

Tel: +049 (0)721 608 42135

Email: annie.powell@kit.edu