

## Dr Peter Seville BPharm PhD DVetPharm MRPharmS FHEA

Senior Lecturer in Pharmaceutics

Pharmacy and Therapeutics

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### About

Peter is part of the team developing the new Master of Pharmacy undergraduate degree programme.

Peter teaches and researches in pharmaceutics, one of the core scientific disciplines of pharmacy. His primary research interests are in the development of medicines that can be inhaled by a patient, either to treat diseases of the lung (e.g. asthma, COPD) or as a means of delivering drugs for an effect elsewhere in the body (e.g. diabetes).

Outside of pharmacy, Peter has a keen interest in cooking, and his culinary skills resulted in him reaching the top 10 in BBC1's MasterChef 2011.

### Qualifications

- Diploma in Veterinary Pharmacy 2007
- Fellow of the Higher Education Academy (FHEA) 2003
- Postgraduate Professional Certificate in Learning and Teaching in Higher Education 2003
- PhD in Drug Delivery 2000
- Postgraduate Certificate in Pharmacy Practice 1996
- Membership of the Royal Pharmaceutical Society of Great Britain (MRPharmS) 1995
- BPharm (Hons) 1994

### Biography

Peter graduated with a Bachelor of Pharmacy degree from the Welsh School of Pharmacy, Cardiff in 1994, following which he undertook his pre-registration pharmacist placement at St Peter's Hospital, Surrey. He then spent some time as a basic grade pharmacist at the Royal Free Hospital, London, before returning to Cardiff University to commence a PhD investigating the development of solution pressurised metered dose inhaler systems. Following a brief spell as a community pharmacy manager in Caerphilly, he returned once more to Cardiff to a postdoctoral research position investigating pulmonary delivery of non-viral gene therapies.

Peter joined the staff at Aston University, Birmingham as a Lecturer in Pharmaceutics in 2002, and in 2008 was appointed as a Senior Lecturer. He led the Inhalation Technology Research Team, published several original research papers and has a patent in the area of pulmonary drug delivery. Peter also served as a member of the Academy of Pharmaceutical Sciences Inhalation Focus Group steering committee, and co-organised a number of symposia and conferences in the area of inhalation science.

Peter also engaged with the RPSGB, the then regulator for pharmacy in the UK, by serving as vice-chair of the Academic Pharmacy Group, and was involved in the development of the RPSGB Pharmacy Student Code of Conduct and the Pharmacy Practice Framework.

Peter joined the School of Clinical and Experimental Medicine within the College of Medical and Dental Sciences as a Senior Lecturer in Pharmaceutics in June 2012 as part of the team developing the new integrated MPharm degree at the University of Birmingham.

### Teaching

MPharm undergraduate degree programme

### Postgraduate supervision

Peter is interested in supervising research projects in the following areas:

- Inhalation science
- Pulmonary drug delivery
- Spray-drying technology
- Powder technology

### Research

Peter's overall research philosophy is to increase the stability and respirable fraction of inhalation formulations, by developing de novo formulations and/or improving existing formulations, and improving the targeting of such formulations to central and alveolar regions of the lung to enhance local and systemic delivery. His investigations focus on the development of inhalable dry powders prepared by spray-drying, and in particular the use of polymeric materials to generate powders that exhibit a modified drug release profile.

## Publications

*Rapid interrogation of the physical and chemical characteristics of salbutamol sulphate aerosol from a pressurised metered-dose inhaler (pMDI)* by H-J Tong, C Fitzgerald, P J Gallimore, M Kalberer, M K Kuimova, P C Seville, A D Ward and F D Pope is published in the RSC journal **Chemical Communications** <http://pubs.rsc.org/en/Journals/JournalIssues/CC#!recentarticles&all> ([https://mail.bham.ac.uk/owa/redir.aspx?C=6TXkl\\_qb5UCBaNO5JvuswGeHTxGI09EInQv-ykO5dObmignS5zKKDMW6-NZEZ2iuJn4Ubs5K3C4.&URL=http%3a%2f%2fpubs.rsc.org%2fen%2fJournals%2fJournalIssues%2fCC%23Irecentarticles%26all](https://mail.bham.ac.uk/owa/redir.aspx?C=6TXkl_qb5UCBaNO5JvuswGeHTxGI09EInQv-ykO5dObmignS5zKKDMW6-NZEZ2iuJn4Ubs5K3C4.&URL=http%3a%2f%2fpubs.rsc.org%2fen%2fJournals%2fJournalIssues%2fCC%23Irecentarticles%26all)) – published in 2014.

Oguejiofor W. and Seville P.C. Aerosol controlled release drug delivery. In: *Pharmaceutical Aerosol Drug Delivery in the 21st Century (in press)*.

Li H.-Y., Song X., Seville P.C. (2010), The use of sodium carboxymethylcellulose in the preparation of spray-dried proteins for pulmonary drug delivery, **Eur. J. Pharm. Sci.**, 40(1): 56-61

Learoyd T.P., Burrows J.L., French E., Seville P.C. (2010), Sustained delivery of salbutamol and beclometasone from spray-dried double emulsions, **J. Microencapsul.**, 27(2): 162–170

Li H.-Y., Seville P.C. (2010), Novel pMDI formulations for pulmonary delivery of proteins, **Int. J. Pharm.**, 385(1-2): 73-78

Al-Husban F.A., Seville P.C. (2009), Carbomer-modified spray-dried respirable powders for pulmonary delivery of salbutamol sulphate, **J. Microencapsul.**, 26(5): 444-455

Learoyd T.P., Burrows J.L., French E., Seville P.C. (2009), Sustained delivery by leucine-modified chitosan spray-dried respirable powders, **Int. J. Pharm.**, 372(1-2): 97-104

Learoyd T.P., Burrows J.L., French E., Seville P.C. (2008), Modified release of beclometasone dipropionate from chitosan-based spray-dried respirable powders, **Powder Technol.**, 187: 231–238

Learoyd T.P., Burrows J.L., French E., Seville P.C. (2008), Chitosan-based spray-dried respirable powders for sustained delivery of terbutaline sulphate, **Eur. J. Pharm. Biopharm.**, 68(2): 224-234

Seville P.C., Li H.-Y., Learoyd T.P. (2007), Spray-dried powders for pulmonary drug delivery, **Crit. Rev. Ther. Drug Carrier Sys.**, 24(4): 307-360

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