

PERSONAL DETAILS

Full Name: M Jayne Lawrence
Address: Royal Pharmaceutical Society & Institute of Pharmaceutical Science
1 Lambeth High Street Franklin Wilkins Building
London SE1 7JN 150 Stamford Street
London SE1 9NH

EDUCATION AND AWARDS

<i>Name of Institution</i>	<i>Dates</i>	<i>Qualification/Award</i>
Royal Pharmaceutical Society (RPS)	2013	Faculty Fellow of the Royal Pharmaceutical Society (FFRPS)
Academy of Pharmaceutical Sciences (APS)	2012	Eminent Fellow of the Academy of Pharmaceutical Sciences (EFAPS)
Academy of Pharmaceutical Sciences (APS)	2012	Chair of 3 rd APS UKPharmSci Conference
King's College London (KCL)	2012	Graduate School Supervisory Excellence Award
Times Higher Awards	2011	Innovative Teaching Award - Finalist
King's College London	2011	Innovative Teacher of the Year Award
General Pharmaceutical Council	2010	Registrant (Registration number 2027502)
Royal Pharmaceutical Society	2010	Fellow (Membership number 74865)
Royal Pharmaceutical Society of Great Britain	2009	Fellowship of the Royal Pharmaceutical Society (FRPharmS) – for Distinction in the Science of Pharmacy
King's College London	1985 - 1988 (part-time)	Associate of King's College (AKC) Distinction
Royal Pharmaceutical Society of Great Britain	1982 - 2010	Membership of the Royal Pharmaceutical Society of Great Britain (MRPharmS)
Manchester University	1982 - 1984 (full time)	PhD Pharmacy (awarded 1985)
Liverpool Polytechnic	1978 - 1981 (full-time)	BSc (Hons) Pharmacy First Class

PREVIOUS APPOINTMENTS

2007 - to date	Chief Scientist, Royal Pharmaceutical Society (50% secondment from KCL) and Head of the RPS's Science Team
2003 - to date	Professor in Biophysical Pharmaceutics, KCL
2002 - to date	Head of the Pharmaceutical Biophysics Group, KCL
2000 - to date	Visiting Professor, Chulalongkorn University, Bangkok, Thailand
2000 - 2003	Reader in Drug Delivery, KCL
1997 - 1999	Senior Lecturer in Pharmacy, KCL
1984 - 1997	Lecturer in Pharmacy, KCL
1981 - 1982	Pre-registration Pharmacist (Richardson-Vicks, Skelmesdale and Clitherow Chemists, Liverpool, period spent in Alder Hey Children's Hospital)

NB 1/93 - 3/93 & 9/93 - 12/93; 6 months (total) sabbatical leave granted by Pharmacy Department, spent working in the Inhalation Research Group, Respiratory Product Development Section of Glaxo Group Research (now GlaxoSmithKline), Ware.

SCIENTIFIC LEADERSHIP

I have demonstrated scientific leadership in a number of ways. For example I have considerable committee experience at National and International level, within pharmacy and the wider scientific community. I have been a member and chair of UK and European Research Council Panels. All the committee positions have been either by invitation and/or election. I detail below only current committee roles or those recently held.

Furthermore, I have also shown scientific leadership in my role as Chief Scientist for the RPS, initiating the review of the RPS's stance on homeopathy which resulted in myself giving evidence on behalf of the RPS at the Science and Technologies Select Committee's Evidence Review in 2009 (<http://www.publications.parliament.uk/pa/cm200910/cmselect/cmsctech/45/45.pdf>), initiating a review of Multi-compartment Compliance Aids MCAs) which resulted in a report published in 2013 (<http://www.rpharms.com/unsecure-support-resources/improving-patient-outcomes-through-the-better-use-of-mcas.asp>), which has influenced on a national scale the use of MCAs and is quoted by NICE, the RPS being intimately involved in the campaign for clinical trial transparency (<http://www.alltrials.net/supporters/organisations/rps-statement/>) and, most recently, the development of the 'New Medicines, Better Medicines, Better Use of Medicines Guide' (<http://www.rpharms.com/promoting-pharmacy-pdfs/nmbmbu---full-report.pdf>) published May 2014.

Current National Roles

Member of the Facility Access Panel 2: Disordered Structures (2015-present)

This committee was a grant awarding committee of the Science and Technologies Facilities Council and considers neutron beam time applications for NIMROD and SANDALS at the Neutron Facility at Rutherford Appleton Laboratories (RAL), Didcot, Oxon.

Core Member of Science and Technology Faculties Council Science Board

<http://www.stfc.ac.uk/696.aspx> (2014-present)

Science Board is the Science and Technology Facilities Council's (STFC's) principal scientific advisory committee, reporting directly to Council. Its purpose is to provide the STFC with a strategic scientific overview and assessment of, and science advice on, all of the programmes STFC supports. It is supported by advisory panels, peer review committees and other advisory committees.

Member of Diamond SAXS User Working Group <http://www.diamond.ac.uk/Beamlines/Soft-Condensed-Matter/small-angle/Contacts.html> (2014-present)

Facilities Forum (Committee Member 2013-present)

The Facilities Forum is a new committee set up by The Institute of Physics to gather the views of users of National Central Facilities such as Diamond and ISIS to inform its policy work in dealing with the STFC, Research Councils UK (RCUK), etc. Committee membership is by invitation.

Industrial Pharmacy Forum <http://www.rpharms.com/sector-groups/industrial-pharmacists-group.asp>
(Committee Member 2011 - present)

The Industrial Pharmacy Forum (IPF) is a sub-group of the Royal Pharmaceutical Society (RPS) representing the interests of industrial pharmacists both within the RPS and to the wider pharmaceutical arena. My role on the committee is particularly to promote the interests of the industrial pharmacists within the RPS.

Member of the joint Institute of Physics and Royal Society of Chemistry UK Neutron Scattering Group **Committee** <http://www.iop.org/activity/groups/subject/ns/>
<http://www.rsc.org/Membership/Networking/InterestGroups/NeutronScattering/index.asp> (Committee Member 2010-present)

The UK Neutron Scattering Group (UKNSG) is a joint group of the Institute of Physics and the Royal Society of Chemistry which represents the interests of UK scientists using Neutron Central Facilities in the UK and Europe including organising meetings/conferences and responding to consultations on behalf of the community.

Joint Pharmaceutical Analysis Group (<http://www.jpag.org/>) (Management Board Member 2007 - present)

The Joint Pharmaceutical Analysis Group (JPAG) is a joint group of the Royal Pharmaceutical Society (RPS) and the Royal Society of Chemistry that exists to encourage, assist and extend the knowledge and study of pharmaceutical analysis and quality control, predominately by the holding of scientific meetings. My role on the management board is to promote the interests of JPAG within the RPS.

Academic lead on a new small angle neutron scattering instrument (ZOOM) to be built on the new target station at the Rutherford Appleton Laboratories (<http://ts-2.isis.rl.ac.uk/instruments/phase2/zoomWeb.pdf>) (2006-present)

I was invited by the Neutron Facility at Rutherford Appleton Laboratories (RAL), Didcot, Oxon, to be academic lead on a new small angle neutron scattering instrument (ZOOM). I twice had to present the

scientific case for ZOOM, to the Scientific Advisory Committee prioritizing which new instruments should be built as well as presenting the case to the wider scientific community. ZOOM is one of the instruments being built in Phase Two of the New Target Station (known as TS2) at RAL.

Organisation Committee of United Kingdom and Ireland Controlled Release Society (<http://www.ukicrs.org/>) (Organising Committee Member, 1999 - present; Treasurer 2006 - present)

The United Kingdom and Ireland Controlled Release Society (UKICRS) is a very active Chapter of the Controlled Release Society - an International Society for delivery science and technology. I am a committee member and treasurer. The committee organizes research colloquia and conferences including a 1-day UKICRS meeting, formerly held at the British Pharmaceutical Conference and now at PharmSci conference. The UKICRS committee has won the Controlled Release Society 'Chapter of the Year' in 2012 and 2013.

Academy of Pharmaceutical Sciences (<http://www.apsqb.org/>) (Board Member 2003 - present, Vice - Chair 2011 - present)

The Academy of Pharmaceutical Sciences (APS) is a professional body for pharmaceutical scientists in Great Britain. Its objectives are to promote the pharmaceutical sciences. I am an elected member of the Board and am currently vice - chair.

Recent National Roles

Member of Cancer Research UK (CRUK) review team (Member 2015, 2010)

I was part of a small team of experts that reviewed the CRUK funded Formulation Unit at Strathclyde University.

Member of the Science and Technology Faculties Council's Life Sciences & Soft Materials Advisory Panel (<http://www.stfc.ac.uk/702.aspx>) (Panel Member 2012-2014)

New committee set up to report to Science board of the Science and Technology Faculties Council (STFC). Committee membership is by nomination.

Member of the Science and Technology Faculties Council's Neutron Advisory Panel (<http://www.stfc.ac.uk/About+STFC/6009.aspx>) (Panel Member 2009-2011)

Standing committee of the Science and Technology Faculties Council (STFC) reporting to STFC's Science Committee for Physical and Life Sciences on matters concerning neutron science, particularly its funding, in the UK.

Engineering and Physical Sciences Research Council (EPSRC) Physical Sciences – Materials Review Panel (Panel member 2012)

Member of materials review panel.

Sub-panel 13(Pharmacy) for the 2008 Research Assessment Exercise (Member 2006-2008)

One of a panel of 15 senior academics, selected for assessing research in UK Schools of Pharmacy. This was a very important role as it determined the level of research funding Schools within universities receive until the next comparable exercise in 2014.

Member of the Science Advisory Panel for NIMROD (Panel Member 2006-2010)

This panel reviews the scientific developments on the new neutron diffractometer called NIMROD being built at the Science and Technology Faculties Council's Rutherford Appleton Laboratories. NIMROD was one of the instruments built in Phase One of the New Target Station (known as TS2) at RAL.

Member of Laser Access Panel (Panel Member 2006-2009)

This Council for the Central Laboratories of the Research Councils (CCLRC) (now the Science and Technology Faculties Council) committee was responsible for allocating laser time on the basis of applications submitted. It was a UK Research Council committee.

Chairman of the Facility Access Panel 3: Large Scale Structures (Chairman 2004-2007)

Chair of the Facility Access Panel (FAP) 3: Large Scale Structures. This committee was a grant awarding committee of the Council for the Central Laboratories of the Research Councils (CCLRC, now STFC) and was responsible for allocating ~ 360 days of neutron beam time per year, each day worth ~ £20K (total budget ~ £7.5M).

Engineering and Physical Sciences Research Council Peer Review College
(<http://www.epsrc.ac.uk/funding/apprev/college/Pages/default.aspx>) (College Member, 2003-2005, 2006-2008, 2009-2013)

College members are nominated experts who are called upon to assess research grant proposals submitted to Engineering and Physical Sciences Research Council (EPSRC) and draw up a ranked order list of research projects from submitted proposals.

Current and Recent European and International Roles

Formulation and Pharmaceutical Technology Special Interest Group of the International Pharmaceutical Federation

http://www.fip.org/Formulation_Design_and_Pharmaceutical_Technology (Vice-chair 2011-present)

This is a new Special Interest Group (SIG) set-up by the International Pharmaceutical Federation (FIP) to promote pharmaceutical science. The SIG will develop a programme of formulation-related activities at scientific meetings and workshops. In addition, it will offer opportunities for networking, and professional development, including continuing education. I will become chair of the group in 2016.

Neutron Instrument Review Panel of the Institute Laue Langevin, Grenoble, France (Member 2011)

Panel consisted of senior experts in the field of neutron science who were asked to review the suite of neutron instruments currently available at the Institute Laue Langevin (ILL) and to draw up priorities for these and other new instruments over the next 20 years.

Assessment of the Pharmacy Department at the University of Brisbane, Queensland (2008)

I was part of an international panel assessing the quality of the teaching and research in the Pharmacy Department at the University of Brisbane, Queensland.

European Medicines Agency (Member 2008-2009)

Member of an ad-hoc committee that produced an EMA Reflection Paper entitled "Micellar Injectables".

Beam Time Scheduling Panel College 8 (Biological Science) of the Institute Laue Langevin, Grenoble, France (Member, 2006-2009)

This committee is responsible for allocating neutron beam time on the basis of applications submitted. Institute Laue Langevin (ILL) is a European facility funded by a tripartite agreement between France, Germany and the UK (<http://www.ill.fr/>). This involved attending two meetings a year and reading about 30 neutron beam time proposals at each meeting.

SCIENCE ADVOCACY

Media Work

I have participated in a considerable amount of media work in my role as Chief Scientist at the Royal Pharmaceutical Society, and to a lesser extent in my academic position at King's College London, examples of which are detailed below. I have developed a reputation as the media spokesperson for pharmaceutical science matters. To support these activities I have undertaken several media training course (including advanced training courses).

Television

I have been interviewed live as well as being pre-recorded for a number of National TV programmes including BBC 1 Breakfast - new herbal regulations (live), 2011; dangers of sunscreen (pre-record and live) 2015), BBC 2 Newsnight - homeopathy, 2011, BBC News 24 - 4 pieces - homeopathy (live), 2011; AstraZeneca closures (live), 2013; generic/branded antihistamines 2014; antibiotics (live), 2014, BBC Politics - science, 2014, BBC World News – 2 pieces - antibiotics (live), 2014, fat burners (live) 2015; BBC Watch Dog - generic and branded medicines 2012, BBC 2 Test House - 2 pieces - branded/generic and vitamins 2014, BBC 4 Pain, Poison and Pus (arsenic act 2013), ITN News - 2 pieces - counterfeits, 2010; antibiotics, 2014, Sky News - 4 pieces - antibiotics (live), 2013; antibiotics (pre-record and live) 2014; antibiotics (pre-record) 2015, Channel 4 Dispatches - anti-ageing creams, 2008, Channel 5 News - 4 pieces – homeopathy (live) 2012; antibiotics (live), 2014; dangers of fat burners (live), 2015; dangers of sunscreen (pre-record) 2015). I have appeared on BBC Local TV (Look North) talking about the dangers of fat burners (2015). On the International front I was interviewed by Korean TV about the 'New Medicines Guide' (2014). I have also provided pharmaceutical advice for a

range of programmes including a BBC 1 prime time programme (health benefits of bottled water, 2011), BBC1 Trust Me I Am A Doctor (generics/branded, 2014). I have recently acted as a consultant on for a BBC1 commissioned science documentary entitled 'The Truth About Your Medicine Cabinet', shown 2015.

Radio

I have been interviewed live as well as being pre-recorded for a large number of Local and National programmes including BBC local radio on the use of placebo's in children, Radio 4 on the (lack of a) scientific basis for homeopathy and the advantageous/disadvantageous of the recent EU Herbal Regulations (comments which were syndicated throughout the BBC radio network), BBC 5 Live on the discovery of antibiotics, multiple BBC Local radio stations on the danger of rapid withdrawal of antidepressant medication, BBC local radio on the use of microneedles, BBC Solent on branded and generic medicines, BBC Oxford and Drive Time on homeopathy, multiple BBC Local radio stations on the dangers of fat burners (2015). Last year (2014) I was interviewed twice live by John Humphries on BBC R4's Today programme, live on BBC Radio Scotland, pre-recorded on Voice of Russia and Radio Sheffield about antibiotic resistance and live on BBC R4's You and Yours about personalized medicine. I was interviewed live on the Today programme, BBC 5 Live and 15 local BBC radio stations about the dangers of sunscreen (2015). I was also interviewed live on 8 local BBC radio stations about the dangers of fat burners (2015).

Press

I have worked with Sense about Science (<http://www.senseaboutscience.org/>) to give a statement about the dangers of using homeopathic nosodes instead of antimalarials when travelling to endemic areas (2010). This was reported in several papers and on-line (e.g. The Independent on-line) Over recent years I have been interviewed by a number of National newspapers including the Daily Express, the Daily Mail, the Times, the Metro and the Big Issue on a wide range of pharmaceutical issues including generic and branded medicines, herbal medicines, prescribing medicines by brand name, how medicines work, biosimilars. Last year (214) I also commented on the potential merger of the two large Pharma companies, Pfizer and AstraZeneca in the Times.

On-line Media

I have been interviewed by a range of on-line TV stations and newspapers including BBC on-line on the use of placebo's in children (2008), new EU herbal medicines regulations (2011), re-purposing of medicines (2013), the difference between branded and generic (2013) and the RPS New Medicines Guide (2014), ITV News on counterfeit drugs (2012), Sky News on alternatives to antibiotics (2014) and MotherBoard (2014) about the New Medicines Guide. The Telegraph on-line about homeopathic travel vaccines (2011),.The Express (2013) on branded and generic, Daily Mail on switching brands of medicines (2014) I feature in a series of short vignettes on the HealthVista web-site about over the counter medicines including generic and branded medicines, from the mind to the counter. Homeopathy, painkillers and the placebo effect. I have appeared in a short Royal Pharmaceutical Science video (available on the internet) describing 'how medicines are made' (2012) (<https://www.youtube.com/watch?v=SKGTcmPCH1o>).

Media Presentations

I have presented to the media at special media only events on the subject of personalised medicine (2013) and antibiotics (2014).

Response to Public Consultations

I have given written and oral evidence at a Science and Technology Select Committee of the UK Government's Evidence Session into the (lack of) scientific and clinical evidence to support the use of homeopathy (2009). I have also provided written evidence to a wide variety of consultations including (but not exclusively) those of the Medicines Health Regulatory Authority (MHRA), The General Pharmaceutical Council (GPhC) and the Border Control Agency, the Faculty of Pharmaceutical Medicine, the World Health Organization (WHO) and the National Institute for Health and Care Excellent (NICE).

Round Table Discussions

I have attended (invitation only) the round table discussion entitled 'fixing the broken business model in antimicrobial resistance' (AMR) (2014) organized by PricewaterhouseCoopers, Gordon Museum, King's College London. I attended (invitation only) the Foundation for Science and Technology meeting on antimicrobial resistance held at the Royal Society (2014).

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