

PROFESSOR WENDY MARIA PURCELL

BSc PhD FRSA · Professor of Biomedicine · Emeritus President Vice-Chancellor

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EXECUTIVE SUMMARY

I am a transformational **leader** able to deliver excellence in mission-driven organizations in **executive** and **non-executive** roles and through management **consultancy** practice and leadership **coaching**.

My purpose lies in helping to **transform lives** through education and research in pursuit of social equity and the knowledge economy. By harnessing the abilities of talented people working across disciplines and professional boundaries, I have led organizations from 'good to great'.

Comfortable with **complexity and scale**, I am **analytical** as well as **enterprising** in my approach. With deep experience of the **global higher education** sector, I connect **universities with business and society** on an international scale. I am an Associate of the American Association of Universities and Colleges. Working with national and local **governments**, the **charity/social enterprise** sector, and **business** – corporates, small- and medium-sized enterprise and start-ups – I support knowledge-based growth, impact and sustainability.

I take a keen interest in diversity and inclusion, leadership and governance and pursuit of the Sustainable Development Goals. I am a Council Member of the **United Nations University** and a Visiting Scientist with the T.H. Chan School of Public Health at **Harvard University**. I was a **Non-Executive Director** with the UK Government's Department for Business, Innovation and Skills and Chair of its Nominations (Talent) Committee. **Expert Adviser** to Sir Andrew Witty's Review of Universities and Economic Growth and Sir Adrian Smith's Postgraduate Review, I advise Whitehall, working with the Cabinet Office on Talent and Diversity and the Government Office for Science on Foresight. I **consult** on **global trends in the higher education** sector and the **leadership** challenges resulting from disruptive forces.

I hold **Director/Trustee** roles with Charities and was **Founder/Chair** of the Council for Healthcare Scientists. I am a life **scientist** with practice in knowledge exchange and innovation, having worked with pharma/biotech. I continue to write academic papers and popular articles/blogs, with my **book** on 'Leadership Disrupted' out in Spring 2019. I have secured competitive research funding from UK, EU and USA sources and have experience of raising **philanthropic** funds. I am an elected **Fellow** of the Royal Society of the Arts, Manufactures and Commerce.

Personal Attributes

- A transformational leader delivering excellence in mission-driven organizations in executive and non-executive roles.
- Able to harness the passions of talented people working across disciplines and professional boundaries.
- Comfortable with complexity and scale, analytical as well as creative and enterprising in approach.
- Highly effective communicator, with gravitas.
- International experience, working across nations and cultures.
- Acts with passion and purpose and champions diversity and inclusion.
- Deep experience of the global higher education sector, tertiary skills sector, research and its translation via entrepreneurship and innovation.
- Scientist with national roles and experienced in working with the pharma/biotech sector, in biomedical and healthcare sciences.
- Skilled in driving organizational growth through partnerships with business, government and charities/social enterprises.
- Seeking to transform lives through education and research.
- Able to lead a team and/or an organization from 'good to great' in roles and via management consultancy and coaching practice.

Skills and Experience

- Managed a budget of £250M and staffing cadre of 3,000, mostly knowledge workers (PhD/MBA) and professionals.
- Undertaken structural form/function re-organizations, and secured large-scale budgetary savings and efficiencies, working within a shared governance model and with recognized trade unions.
- Driven research growth (4-star research excellence increased from 36% to 65%, 2008-2014) and diversified income streams to deliver surplus/profit through innovation and internationalization – including establishing overseas in-country operations.
- Improved student outcome measures (satisfaction, experience, academic performance, retention, employability, internationalization).
- Improved university brand and global rankings.
- Developed strategic and business plans together with accountability measures, including the articulation of benefits realization and benchmarked key performance measures.
- Able to articulate a compelling vision and change narrative.
- Transformational leader able to harness a diversity of stakeholders towards delivery against a common shared vision.

Current Projects

- Professor and Visiting Scientist with **Harvard University** in the Harvard T.H. Chan School of Public Health (2016 to date) undertaking research and teaching on leadership, governance, sustainability/SDGs.
- Founder/Director **Center for Higher Insights** <https://centerhigherinsights.com>
- **Editorial Board Member** American Association for Science and Technology 'International Journal of Modern Education'
- Expert Adviser to the **Bulgarian Ministry of Education and Science** on socio-economic impact of universities and research institutes and expert contribution to Policy Report.
- Academic Consultant to the **American University in Bulgaria** on sustainability leadership and innovation executive programs
- Advisory Board Member for **StudyPortals**, on global higher education policy, trends and opportunities.
- Senior Adviser to **Perrett Laver**, global search firm, on global higher education policy and future trends and undertaking business strategy review of global education practice.
- Expert Adviser to **UK Government Cabinet Office** on executive leadership, future and senior leaders' schemes, diversity and inclusion.
- Expert Adviser to **UK Government Office for Science** on **Foresight** programs: projects include lifelong learning, digital, generations.
- Academic Consultant to the **World Travel and Tourism Council** on executive leadership and sustainability and best practice case studies.
- Senior Board Adviser to the **Environmental Association of Universities and Colleges** on senior leadership for sustainability programs, governance in higher education and links with business.
- Member of the **Future Business Council** advising on how businesses can better work with universities.
- Member of the **Harvard Kennedy School** Center for Democratic Governance and Innovation.
- Advisory Board Member to the **Harvard Business Review**.
- Board Member of the **Royal Society RSA Sustainability Network**.
- Adviser to **Rathbones Impact Investment** on university governance, and impact investing.
- Member of the Advisory Board for Annual **Future EdTech** conferences (2019).
- Member of the **International Women's Network** and the Massachusetts Women's Network.

Recent Projects

- RSA Action and Research Centre, Member of the Editorial Group on 'Possibility Thinking' and Adviser to the Report 'Re-imagining the Future of Further Education and Skills' (2016) <https://www.thersa.org/action-and-research/rsa-projects/creative-learning-and-development-folder/possibility-thinking---reimagining-the-future-of-fe--skills#>
- Keynote speaker and invited Faculty at **Indiana University** in support of the Office of Naval Research Faculty Development Research Institute for Minority

Serving Institutions and Science, Technology, Engineering and Mathematics research (2016).

- Consultant to **Northeastern University, USA** in support of the College of Professional Studies and the Global Network on global higher education policy, trends and opportunities for a global professional studies academic campus offer (2016/17).
- Member of the Advisory Board for Annual **Future EdTech** conferences (2016/18).
- Expert Adviser to **Microsoft UK** on 'Exploring the role of technology, employers and young people' and global higher education trends (2016/17).
- Academic Consultant to **VoyEdge Dutch universities** program on digital transformation in higher education (2017/18).
- Board Member of the **Center for Societal Smart Grids Design**, a platform technology business driving societal transformation through experience and wisdom sharing (2017/18).
- Expert Adviser to the Foresight programme with the **Government Office for Science** on 'Foresight Future of Skills and Lifelong Learning' in collaboration, led by Sir Mark Walport the Government's Chief Scientific Adviser.
- Expert Adviser to the Foresight programme with the **Government Office for Science** on 'Foresight – Generation Alpha' and 'Foresight – Ageing'
- Lead Non-Executive on the **Business, Innovation and Skills** Departmental Plan and Strategy 2020 Size and Shape project (the latter underpinning the department's Spending Review 2105 submission); Departmental Improvement Plan; Talent Mapping.
- Board Member Adviser to **Environmental Association of Universities and Colleges**: Strategy Working Group; Senior Leadership Development Program Team; University Governance and the SDGs; Future Business Council.
- Founding Member and Member of the Steering Committee of the **Royal Society RSA Sustainability Network**.
- Contributor to the **Public Appointments** Review, Sir Gerry Grimstone's report 'Better Public Appointments' Report:
<https://www.gov.uk/government/publications/better-public-appointments-review-of-the-public-appointments-process>
- **Expert Adviser** to the UK national Review on Universities and Business, see:
https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/249720/bis-131241-encouraging-a-british-invention-revolution-andrew-witty-review-R1.pdf
- Expert Adviser to the UK Government's national **Postgraduate Review**.
- Gave evidence to the UK Parliamentary **Select Committee** on Business, Innovation and Skills on the role of universities driving city and regional economies.
- Provided expert advice to **BP, British Gas, Pearson, Unite, and Talent Retention Solutions** on graduate trends, employability and sustainability.
- Led the kick-off policy meeting for the **Higher Education Funding Council for England** on 'anchor' institutions and higher education policy.
- Invited to contribute to the **Welsh Assembly's** Review of 16-19 qualifications.
- Invited by the **Royal Society** to advise on a research plan to review barriers for practicing scientists in engaging with the media.
- Provided expert research advice to **Roche, Glaxo-Wellcome, Pfizer, Genentech, Xenogen and Amersham Pharmacia Biotech** on cell culture

models as testing paradigms to refine, reduce and replace animals in pre-clinical studies.

CAREER SUMMARY

2016 - date Portfolio career of strategic consulting and coaching and Visiting Professor and Scientist with Harvard University, Harvard T.H. Chan School of Public Health, Center for Health and the Global Environment and School of Environmental Health

Non-Executive Directorships and Trusteeships

- Board Member Study Portals Global Advisory (2017-date).
- Council Member of the United National University, Education for Sustainable Development (2016-date).
- Elected Member of the International Women's Forum (2016-date).
- Member of the RSA Sustainability Network Steering Committee (2016-date).
- Member UK government Civil Service Talent Advisory Group (2015-date).
- Chair UK government Department for Business, Innovation and Skills Nominations Committee (2014-2016).
- Member Health Education England Genomics Advisory Board (2014-16).
- Non-Executive Director UK government Department for Business, Innovation and Skills (2013-2016).
- Member Health Education England Healthcare Science Implementation Network Group (2013-2016).
- Director/Trustee Environmental Association of Universities and Colleges (2013-2018).
- Chair People and Performance Sub-committee of Environmental Association of Universities and Colleges (2015-2018).
- Chair Council for Healthcare Science in Higher Education (2011-17).
- Director/Trustee of the National Marine Aquarium (2008-date).

2007 - 2015 **President Vice-Chancellor & Chief Executive**, Plymouth University UK (1st December 2007 through to 31st December 2015 inclusive)

- Turnover £220M, 4,500 employees, over 30,000 students pa.
- Responsible for developing a distinctive and differentiated vision, mission and strategy, creating and leading a distributed leadership team, managing an executive team of 10 people, business development, brand, fund-raising and philanthropy, international partnerships, talent, research and innovation, regional economic development and community social action projects.
- Secured the university's place in the top 1% of global universities, THE World Ranking placed 276-300 (2015) and to 37th (2015) in the THE Top 100 under 50 Ranking of modern universities.

Achievements as President Vice-Chancellor and CEO

- Generated annual revenue of £250M from students, research grants and commercial income.

- Drove internationalization via academic partnerships in Asia, India, Europe and USA, including the establishment of an on-campus international college and overseas recruitment; worth £33M pa.
- Increased student retention and quality of degree outcomes (1st /2.1); worth £30M pa and especially noteworthy given the social inclusion agenda and diversity of admissions.
- Set tuition fees at £9K per student against a prevailing view of £7K; additional revenue of £168M in 1-year.
- Secured £18M in four rounds of competitively awarded Regional Growth Fund grants from UK Government and private sector partners.
- Partnered with GSM, London to generate £7M pa in student fees off-campus satellite.
- Increased Research income, against an increasingly competitive funding landscape to £13.3M; with the best-performing Government awards for Research since 1992.
- Increased commercial income: 2014 £8.5M from under £1M in 2007.

(1) Effective management of resources

- Oversaw capital investments of £250M, £143M in the last 5 years with a further £100M over the next 3 years, including three new academic and research buildings. The Marine Station won a prestigious property award in 2015.
- Negotiated the transfer of the Tamar Science Park to the University that secured £14M EU funds to refinance the Park and part-fund the new £19M Marine Building on campus.
- Managed 4,500 staff including technical, administrative, professional, research and academic groups.
- Negotiated with strong and active teachers and students union representatives.
- Defined academic excellence and criteria for promotion using an entirely new pathway.
- Managed out an inherited deficit position of £10M over 18-months and reduced overheads by £12M pa while driving growth.

(2) Place-making: city growth, jobs and innovation

- Negotiated with local councils and UK Government Department (Communities and Local Government) an arrangement worth £366M to the local economy over 15 years with a target to create 9,500 jobs; generate £800M gross value added and lever in £266M of private sector investment and support 20,000 businesses.
- University of Plymouth Enterprise Ltd, an innovation I championed to support knowledge exchange secured its highest rank of 18th out of 168 of the most profitable regional companies; Plymouth was also named in the top 10 business incubation facilities in the UK.
- Established three Innovation Centers in Cornwall, securing the contract on a commercial basis with the University as operator, worth £46M over 15 years.
- Established an innovation network and platform, GAIN, to connect the innovation assets of the region to create an innovation ecosystem.

- Defined the University's strategy and distinctive enterprise mission that led to a national campaign for 'anchor' institutions and underpinned a UK Government-led initiative to explore business-university links.
- Took the university into the Times Higher Education World Rankings top 1% of global universities, ranked 276-300 in 2015 and 37th (2015; 42nd 2014; 53rd 2013; 60th 2012 in the Times Higher Education Top 100 under 50 rankings for young universities, those under 50-years of age - the global modern elite.
- Increased research excellence from 36 to 65% world-leading (4-star) over the period of my tenure as measured in the national Research Excellence Framework.
- Established an award winning new brand identity of WITH Plymouth University, to reflect a non-logo identity and the universities focus on working in partnership.
- Winner of the Queen's Anniversary Prize for Higher and Further Education in 2012.
- Won a strong battle to keep the Peninsula Medical School and Dental School in Plymouth worth £10.7M in revenue pa, and hugely significant in terms of reputation.
- Attracted to the University its first Nobel prize-winning scientist.
- Member by invitation of the Prime Minister's cohort of Inspirational Women (2014).

(3) Partnered with the local community

- Established the community-wide University graduation ceremonies. Articulated the vision to move the University's graduation ceremonies to the iconic Plymouth Hoe and to work with the City and local suppliers on what is now a key economic event and visitor attraction for Plymouth.
- Restored the University Reservoir and Garden securing significant funds from Heritage Lottery and Big Lottery Fund to drive a £1.4M restoration project which opened as a community resource in June 2014 for the public to enjoy.
- Championed the University's sustainability agenda, taking it to number 1 ranking in the national green university league tables configured by People and Planet.
- Established the Community Research Awards, creating novel partnerships with university researchers and community groups and social enterprises; some of the project have gone national/international, e.g. Dementia Alliance and secured significant funds for research.
- Created sporting partnerships with the local football, rugby and basketball teams and engaged with healthcare and sports medicine students and researchers.
- Secured the Social Enterprise mark, being the first University in the world to do so, by working with local suppliers and social innovation groups.

2005 - 2007 **Deputy Vice-Chancellor**, University of Hertfordshire

Turnover £170M, 3,000 employees, 23,000 students pa. Responsible for managing a team and for academic development, international business development and partnerships, research, marketing and communications, human resources, change management.

- 2003 - 2005 **Pro Vice-Chancellor** (Research) and Dean of the Faculty of Applied Sciences, University of the West of England, Bristol (Bristol UWE)
Turnover £180M, 3,000 employees, 18,000 students pa. Responsible for university-wide research and preparation for the national Research Assessment Exercise (RAE 2008); faculty-wide responsibilities for biology, biomedical sciences, environmental sciences, chemistry and psychology.
- 2000 - 2004 **Dean** of the Faculty of Applied Sciences & **Director** of the University Centre for Research in Biomedicine, Bristol UWE
Faculty-wide responsibilities for biology, biomedical sciences, environmental sciences, chemistry and psychology; university leadership of the Research Centre in Biomedicine with a focus on developing cell culture models for pre-clinical drug testing, diagnostics and biomarkers, neuroscience and immunology.
- 1997 - 2000 **Associate Dean & Head of Department** of Biological and Biomedical Sciences, Faculty of Applied Sciences, Bristol UWE
- 1993 - 1997 **Head of Division:** Physiology, Pharmacology and Toxicology, Principal Lecturer (full-time), Department of Biosciences, University of Hertfordshire
- 1992 - 1993 **Senior Lecturer** (full-time), Physiology and Pharmacology; Department of Biosciences, University of Hertfordshire
- 1990 - 1992 **Deputy Head** of Health Studies, Senior Lecturer (full-time), Health Studies; Roehampton Institute
- 1988 - 1990 **Postdoctoral Research Fellow** (full-time), Immunopharmacology, NAB; Hatfield Polytechnic
- 1980 - 1982 **Medical Laboratory Scientific Officer**, Serology and Haematology; North London Blood Transfusion Centre

Visiting Lectureships

- 2016 - date **Harvard University**, Harvard T.H. Chan School of Public Health, Center for Health and the Global Environment and School of Environmental Health
- 2000-2001 **CERN**, Visiting Scientist
- 1992 **Open University**, Tutor, S203 Biology: form and function
- 1990 - 1992 **North Bedfordshire Health Authority**, Visiting Senior Lecturer; Queen Elizabeth II Hospital, Herts.
- 1989-1992 **London School of Osteopathy**, Visiting Senior Lecturer; Roehampton Institute

EDUCATION

- 1985-1989 **Doctor of Philosophy (PhD)**
Histamine and 5-hydroxytryptamine in rat mast cells: a comparative study.
University College London, Chemistry & University of Hertfordshire; full-time study.
Principal Supervisor: Professor T.H.P. Hanahoe (UH, Pharmacology)
Second Supervisors: Professor Fred Pearce (UCL, Chemistry)
External Examiner: Professor J.C. Foreman (UCL, Pharmacology)
- 1982-1985 **Bachelor of Science (BSc Honours, 2.1)**
Biological Sciences. University of Plymouth; full-time study.
- 1980-1982 TEC Higher Certificate Medical Laboratory Sciences. Harrow College of Further Education; part-time study.

Professional Development

- Professor and Visiting Scientist with the Harvard T.H. Chan School of Public Health, Harvard University (2016-date).
- Certificate in 'Leading Change in Times of Disruption', MITx 15.671.0x: u.lab (July 2018).
- Certificate in 'From Corporate Social Responsibility to Corporate Social Innovation', Babsonx EPS01x (June 2018).
- Certificate in 'Shaping the Future of Work', MITx 15.662x (May 2018).
- Member of the Center for Bioethics, Harvard Medical School, Harvard University (2016-date).
- Attendance at, and participation in expert audience panel, in the Voices in Leadership series, Harvard T.H. Chan School of Public Health, Harvard University (2016-date).
- Attendance and participation in Unconscious Bias Training, Harvard University (November 2016).
- Attendance and participation in Case-based Teaching and Learning development workshop (November 2016).
- Member by invitation and election of the International Women's Forum (2016-date).
- Harvard School of Public Health Executive Education: Sustainability Leadership (2015).
- Harvard Business School Executive Education: Authentic Leadership Development (2013); Driving Performance through Talent Management (2010); The Corporate Leader (2009); Strategic Agility (2008); Strategic Negotiations: Deal-making for the Long-term (2006); Marketing for Senior Executives (2006).
- Fellow Top Management Programme, Top Management Programme (2000/01) (TMP2) 'Strategic Leadership for Effective Change' offered by the University & Colleges Staff Development Agency.
- Visiting Bioscientist with **CERN**, Geneva (2000-2001).
- **Fellow** of the Royal Society of the Arts Manufactures and Commerce (elected 2010-date).

- **BBC and Wellcome Trust Media Fellow** (1996). Fellowship with the BBC World Service Science Unit through the British Association Committee on the Public Understanding of Science (COPUS).
- Intellectual Property training: Bird & Bird Solicitors.
- Attendance at scientific conferences has included invited keynotes and submitted presentations to national and international meetings of learned societies and scientific symposia.
- Participation in executive leadership development events and self-study.

Selected Keynote Addresses, Presentations by Invitation & Expert Panels

(from 2016)

- UN Higher Education Sustainability Initiative Global Event (as part of the High-level Political Forum on the SDGs) invited address 'Student engagement towards realizing the 2030 agenda for sustainable development', New York, NY, USA (July 2018).
- ISCN 2018 Conference invited address 'Living labs for sustainability: towards a learning system for university campuses' (Universities as the engine of transformational sustainability in delivering against the Sustainable Development Goals) at the ISCN Workshop in collaboration with IARU (International Association of Research Universities) in session 4 'Service for society: universities as thought-leaders and collaborative partners in addressing global challenges' (June 2018).
- UK Government Cabinet Office, Project Discussion 'Ethnic Disparities in Higher Education' (June 2018).
- UK Government Cabinet Office, Roundtable Discussion 'Use of Government Networks' (June 2018).
- EAUC Members Day 'Sustainable Leadership and Innovation' program, Keele, UK (June 2018).
- UK Government Department of Health and Social Care, Women's Network 'Leadership truths in a post-truth era' (June 2018).
- EAUC Annual Conference workshop on 'Sustainability for University Board-level Governance', Keele, UK (June 2018).
- Perrett Laver Global Search Partners and Global Consultants on Sector Leadership Development, 'Strategic Planning Session', London, UK (June 2018).
- Carbon Credentials Curiosity Session on 'Megatrends in Global HE', London, UK (May 2018).
- American University in Bulgaria and Bulgarian Soft Drinks Association 'Sustainability Leadership and Innovation' CEO Workshop (March 2018).
- University-Business Forum on 'University-Business Cooperation: A Partnership for Modernization and Growth' Roundtable Discussion on 'HEI Governance: How can good practices from private and public sector inspire the governance of higher education' (February 2018)
- Study Portals Webinar on 'Envisioning Pathways to 2030: Megatrends Shaping the Future of Global Higher Education and international Student Mobility' (January 2018).
- MIT Festival of Learning Conference, Boston, MA (January 2018).
- VoyEdge Dutch universities program on digital transformation in higher education (January 2018).

- Perrett Laver Global Search Partners and Global Consultants on Sector Leadership Development, 'Strategic Planning Session', London, UK (January 2018).
- RSA Sustainability Network 'In ConVeRSAtion' event Professor Wendy Purcell and Mike Barry, Director of Sustainable Business (Plan A) Marks and Spencer (November 2017).
- Perrett Laver Global Search Global Search Partners and Global Consultants on Sector Leadership Development, 'Higher education – in the USA', London, UK (November 2017).
- Ashfords LLP Law Firm Legal Group Women's Network (November 2017).
- EAUC Emerging Sustainability Leaders Program, Worcester, UK (November 2017).
- American University in Bulgaria and Bulgarian Soft Drinks Association 'Re-framing Sustainability' Workshop for CEOs (October 2017).
- Higher Education Policy Institute/Resolution Foundation Roundtable Discussion 'American Universities in Trumpland' (October 2017).
- PWC and EAUC TIMM Sustainability Impact Metrics Workshop (October 2017).
- University Leadership Summit, Florida, USA (October 2017).
- Perrett Laver Global Search Partners and Global Consultants on Sector Leadership Development, 'Higher education and EdTech', London, UK (October 2017).
- Center for Health and the Global Environment Board Retreat, Harvard University (September 2017)
- Perrett Laver Global Search Partners and Global Consultants on Sector Leadership Development, 'Higher education – leadership disrupted', London, UK (May 2017).
- PWC Workshop on the SDGs, Lancaster, UK (March 2017).
- EAUC Pre-Conference Program on 'Sustainability Leadership in Higher Education', Lancaster, UK (March 2017).
- University Industry-Innovation Network, 'New Governance Models for Entrepreneurial Universities: A Conceptual Framework', Adelaide, Australia (February 2017).
- Association for the Advancement of Sustainability in Higher Education (AASHE), Senior Leader Summit on Leadership for Sustainability, Baltimore, USA (October 2016).
- UK Government Cabinet Office, 'How to be an Inspirational Manager' for the Top Talent schemes, London UK (September 2016).
- Center for Health and the Global Environment Board Retreat, Harvard University (September 2016).
- Perrett Laver Global Search Partners and Global Consultants on Sector Leadership Development, 'Higher education policy changes and impact', London, UK (August 2016).
- UK Government Cabinet Office, 'Diversity – inclusive leadership skills and awareness' for the Top Talent schemes, London UK (August 2016).
- Indiana University-Minority Serving Institutions STEM program, Inaugural Faculty Development Research Institute, 'Transforming Lives and Communities through Research Partnerships', Bloomington, IN, USA (July 2016).
- Selwyn College Cambridge with Harvard University and the EAUC, Driving Sustainability Leadership Lab, 'Linking Delivery of Organizational Mission and Strategy', Cambridge, UK (July 2016).

- Government Office for Science 'Lifetime Learning in the Digital Age', invited Expert Adviser and Workshop Participant London, UK (July 2016).
- 2nd Annual Future EdTech conference, invited Expert Adviser - Food for Thought Panel 'It's not the strongest of the species that survives, but the most adaptable: responding to Millennials current and future needs', London, UK (June 2016).
- European Meeting of the United National University, Education for Sustainable Development, Council Member, London, UK (June 2016).
- Perrett Laver Global Search Partners and Consultants on Sector Leadership Development, 'Looking around corners: trends and developments', London, UK (May 2016).
- Harvard-EAUC Sustainability Program workshop, Bristol, UK (May 2016).
- Cabinet Office Talent Action Group, London, UK (May 2016).
- Perrett Laver Global Search Partners and Global Consultants on Sector Leadership Development, 'Higher education trends and developments', London, UK (May 2016).
- Murray Edwards College Cambridge Select BIO Stem Cells in Drug Discovery 2016, 'Organotypic 3-dimensional spheroid cultures: pre-clinical testing paradigms', Cambridge, UK (April 2016).
- iGraduate International Insight Best Practice Exchange Event 2016 - Raising the bar for the student experience, Opening Keynote Address by invitation 'Looking around corners: trends and developments', Kings College, London, UK (April 2016).
- EAUC Strategy Development Steering Group and Workshops, London & Birmingham, UK; (February-December 2016).

Research Interests

- Leadership and governance; sustainability; global higher education policy and strategy.
- Alternatives to animals in pre-clinical research; pharmacology; toxicology; immunology; mast cell biology; inflammation and neuroimmunology; neurotrophic factors; neurodegeneration; spheroid models in toxicity testing, drug screening; and metabolism studies; *in vitro* blood-brain barrier.

Research Grant Awards

- Research grants: EPSRC, BBSRC, MAFF, ESRC, The Wellcome Trust, Dr Hadwen Trust for Humane Research, The Nuffield Foundation, The Royal Society, Roche Discovery, Amersham Pharmacia Biotech, Pfizer.
- Travel grants/bursaries: The Wellcome Trust, Royal Society, The Nuffield Foundation, British Pharmacological Society, European Histamine Research Society, Roche Products Ltd and Corning Hazleton Europe.

Peer Review

- Scientific papers: British Journal of Pharmacology; Journal of Cellular Biochemistry; Pharmacology Research; Human and Experimental Toxicology; *In Vitro* Toxicology; Alternatives to Laboratory Animals; Reproduction, Fertility & Development; Agents and Actions; Inflammation Research; Royal Society Proceedings.

- Grant Applications: EPSRC, BBSRC, The Wellcome Trust, MRC NC3Rs, Irish Health Research Board, NHS Research, NIH.

PhD Examiner

Successful PhD completions 14; PhD examiner 10.

Membership of Learned Societies (until):

- US Society of Toxicology (2012)
- British Society for Immunology (2010)
- British Toxicological Society (2006)
- European Histamine Research Society (2000)
- British Pharmacological Society (2000)
- Pre-eclampsia Society (1997)

Academic Awards and Prizes

- Member by invitation and selection International Women's Forum (2016)
- Member by invitation of the **UK Prime Minister's cohort of Inspirational Women** (2014).
- Awarded the **Queen's Anniversary Prize**, for marine and maritime research and education (2012).
- Winner of the University Business Plan competition 2001/02 for a spin-out company, Bristol UWE.
- Professorship, Bristol UWE: April 1997.
- Media Fellowship 1996: The Wellcome Trust Media Fellow with the BBC World Service Science Unit, July-September 1996; British Association, COPUS.

MEMBERSHIP OF COMMITTEES

External

- 2016 - date** Member of the Center for Bioethics, Harvard Medical School, Harvard University
- 2016 - date** Member of the Strategic Advisory Committee, Center for Health and the Global Environment, Harvard University
- 2016 - date** Council Member United National University, Education for Sustainable Development
- 2016 - date** Elected Member International Women's Forum
- 2016 - date** Member RSA Sustainability Network Steering Committee
- 2015 - date** Member Civil Service Talent Advisory Group
- 2014 - 2017** Member Health Education England Genomics Advisory Board
- 2014 - 2016** Chair Nominations Committee, UK Government Department for Business, Innovation and Skills (BIS)
- 2013 - 2016** Non-Executive Board Member/Director, Departmental Board, UK government Department for Business, Innovation and Skills (BIS)
- 2013 - 2015** Member Health Education England Healthcare Science Implementation Network Group
- 2013 - 2018** Board Member/Director Environmental Association of Universities and Colleges

- 2011 - 2017** Chair UK Council of Healthcare Science in Higher Education
- 2011 - 2013** Member National School for Healthcare Science Board
- 2011 - 2013** Member Advisory Panel for the Future Shape of the Healthcare Science Workforce project, UK government Department of Health
- 2011 - 2015** Member and Deputy Chair (to 2013) Universities UK (UUK) Employability, Business and Research Policy Network
- 2011 - 2013** Member UUK Health Education and Research Policy Network
- 2011 - 2014** Board Member/Director of the Local Enterprise Partnership Board, Heart of the South-West
- 2010 - 2012** Chair Healthcare Science Strategic Advisory Group in Higher Education for the Department of Health
- 2010 - 2011** Co-Chair MEE Healthcare Science Clinical Academic Careers Strategy Group (by invitation of the Chief Scientist Office, Department of Health)
- 2010 - 2010** Member MEE Healthcare Science Academic Careers Working Group
- 2009 - 2011** Member of the University Vocational Awards Council Board
- 2009 - 2010** Member of the Plymouth City Development Company Board
- 2009 - 2011** Member of Postgraduate Review Group established by Professor Adrian Smith, Department of Business, Innovation and Skills
- 2009 - date** Trustee of The Lord Caradon Lectures Trust
- 2009 - 2013** Member Medical Education England Healthcare Science Programme Board
- 2008 - date** Board of Trustees, Drake Foundation
- 2008 - 2014** Member CBI South West Council
- 2008 - 2014** Member Chamber Council/Chamber Stakeholder Group, Plymouth Chamber of Commerce and Industry
- 2008 - date** Vice-Chairman (Education) Plymouth Area Business Council
- 2008 - 2011** Member of Business in the Community – SW Leadership Team
- 2008 - 2015** Member UUK Long-term Strategy Group
- 2008 - 2012** Member by invitation UUK-Guild HE Sustainable Development Task Group
- 2008 - date** Trustee National Marine Aquarium
- 2008 - 2012** Member Plymouth Local Strategic Partnership Board
- 2008 - 2011** Member Plymouth Economic & Skills Board
- 2008 - 2009** Chair STEMNET South West Assessment Panel: Brokerage; Science & Engineering Ambassadors
- 2008 - 2011** HERDA-SW Member Regional Skills Partnership Board
- 2007 - 2014** Member HERDA-SW (now Universities SW)
- 2007 - 2010** Member HEFCE Leadership, Governance and Management Fund Strategic Oversight and Assessment Group providing strategic direction for the LGM Fund
- 2007 - 2015** Member Universities UK for the Plymouth University
- 2007 - 2015** Member University Alliance group for Plymouth University
- 2007** Member HEFCE Japan-UK Higher Education Policy Forum: University representative of the east of England region.
- 2006 - 2007** University of Hertfordshire representative on the University Alliance group (new assembly of UUK members not aligned with the three established groups)
- 2005 - 2007** Chair Regional Science Support Centre in the East of England (STEMNET)
- 2005 - 2007** Member of the Association of the Universities of the East of England Steering Group

- 2005** Member of the HEFCE Higher Education Workforce Development Key Stakeholders Group
- 2005** Member HERDA-SW Leadership and Management Task and Finish Group
- 2005 - 2010** Member HEFCE Strategic Advisory Committee on Leadership, Governance and Management
- 2005** Treasurer, UK Deans of Science
- 2005** Convener South West Chapter Top Management Programme Fellow
- 2004 - 2005** Member of the Heads of Biological Sciences Group advising the Higher Education Funding Council for England on relevant metrics of applied research for the Research Assessment Exercise 2008
- 2003 - 2004** Member of the Higher Education Regional Development Agency - Southwest, Physical Sciences Task Group
- 2002 - 2005** Member of the Higher Education Strategy Group, Sector Skills Council for Science, Engineering, Manufacturing and Technologies
- 2002 - 2005** Trustee of the Bristol Urological Institute
- 2001 - 2005** Elected Member of the UK Deans of Science Executive Committee
- 2000 - 2003** External Examiner, University of Salford: Biological Sciences Undergraduate Programmes
- 2000 - 2003** External Examiner, Manchester Metropolitan University: Biomedical Sciences Postgraduate Programmes
- 2000 - 2002** National Elected Member of the Quality Assurance Agency for Higher Education 'Biosciences' Benchmarking exercise
- 1999 - 2005** Elected Member of the Executive Committee, Heads of University Biological Sciences and Press Officer from 2001
- 1999 - 2015** Member of the Association for Women in Science and Engineering
- 1997 - 2005** Member Heads of University Biological Sciences.
- 1997 - 2005** Member Heads of University Centres for Biomedical Sciences.
- 1997 - 2000** Member of the Heads Groups Biochemical Society.
- 1996 - 1997** Member Organising Committee 15th International Neurotoxicology Conference: Manganese Toxicology, Atlanta, USA.
- 1995 - 1996** Member Organising Committee 14th International Neurotoxicology Conference: Neuroimmunotoxicology, Arkansas, USA.
- 1995 - 1998** Meetings Secretary and Committee Member Immunotoxicology Specialty Section, British Toxicological Society.
- 1995 - 2015** Member Women in Technology in Europe (WITEC).
- 1993 - 2000** Member Committee of Heads of Pharmacology Departments.
- 1993 - 2000** Member Committee of Heads of Physiology Departments.

University-level

- Plymouth University*
- 2014 - 2015** Chair President's Board Strategy Group
- 2007 - 2014** Chair Vice-Chancellor's Executive
- 2007 - 2014** Chair Senior Leadership Team/Executive Advisory Group
- 2013 - 2014** Chair Senior Leadership Forum
- 2007 - 2014** Chair Academic Board
- 2007 - 2014** Member of the Board of Governors
- 2007 - 2013** Chair University Promotions Panel
- University of Hertfordshire*
- 2005 - 2007** Member Academic Board; Chair when VC absent
- 2006 - 2007** Chair HIBT Executive Review Working Group

2005 - 2007 Chair Academic Development Committee
2005 - 2007 Chair OVC Advisory: International
2005 - 2007 Chair OVC Advisory: Research
2005 - 2007 Chair, Professorial and Readership Panel
2005 - 2007 Chair Higher Doctorate Degrees Panel
2005 - 2007 Member of the Office of the Vice-Chancellor
2005 - 2007 Member of the Senior Managers Conference
2005 - 2007 Director of Unisecure Ltd
2005 - 2007 Member of the Board, Polyfield Properties Ltd
2005 - 2006 Chair Contribution Pay Working Group
2005 - 2006 Chair Staff Survey Working Group
2005 - 2006 Chair Combined Honours Programme Review Working Group
Bristol UWE
2005 Chair Contract Researchers Forum
2005 Member Pay Equality Project Executive Management Board
2005 Member Research Governance Sub-Committee of the University
 Research Committee
2005 Chair University Health and Safety Management Group
2004 - 2005 Chair University Research Committee
2004 - 2005 Member Research, Innovation and Graduate Studies Executive
2004 - 2005 Member Personnel Executive
2004 - 2005 Chair Women in Research Task Group
2004 - 2005 Chair Promotions Committee - Reader and Principal Lecturer Panel
2004 - 2005 Lead Member University RAE Policy Group
2003 - 2005 Chair Finance Project Implementation Board
2003 - 2005 Member Researcher Grade and Progression Panel
2003 - 2004 Member Executive Project Board - Part-time Students
2003 - 2004 Member Executive Project Board - Faculty Redevelopment
2003 - 2004 Member Promotions Committee - Reader and Principal Lecturer Panel
2002 - 2004 Member University Professorial Working Group to define performance
 criteria and merit awards
2002 - 2005 Member University Health & Safety Management Committee
2002 - 2004 Member University Research Governance Task Force
2001 - 2003 Member University External Partnerships Executive Committee
2001 - 2002 Member University Research Governance Working Group
2001 - 2003 Member University Personnel Review Group: Defining Promotion
 Criteria for Readers and Principal Lecturer's
2001 - 2004 Member University Senior Staff Development Working Group
2001 - 2003 Member University Student Support and Guidance Working Group
2000 - 2002 Member University RAE Advisory and Strategy Group
2000 - 2005 Member University Research Committee
1999 Chair QAA HE Subject Programme Review, Subject Contact and
 Leader of the Subject Programme Review. Units 5, 6 and 7
 'Pharmacology and Pharmacy, Molecular Biosciences and Organismal
 Biosciences'. Subject Programme Review visit, February 1-4, 1999.
 Score: 24 out of 24 (the only 'full score awarded to the University of the
 West of England, Bristol)
1999 - 2005 Member Professorial Committee
1999 - 2001 Elected Chair of the Senior Staff Board of Governor Appointment
 Heads Common Interests Group
1999 - 2001 Chair University Ethics Committee

- 1999 - 2005** Member UWE: Bristol NHS Trusts Academic Strategy Group
- 1997- 2003** Member Executive Steering Group of the Centre for Research, Innovation and Industry
Faculty
- 1997 - 2005** Member and Chair (from 2000) Faculty Executive, Faculty of Applied Sciences (FAS), Bristol UWE
- 1997 - 1999** Member Faculty Extended Executive, FAS, Bristol UWE
- 1997 - 2001** Chair Biological and Biomedical Sciences Field Planning Committee and Examinations Board, Bristol UWE
- 1997 - 2000** Chair Biological and Biomedical Sciences Management Group, Bristol UWE
- 1997 - 2000** Member Programme Management Committee, FAS, Bristol UWE
- 1997 - 2005** Member Faculty Research Committee, FAS, Bristol UWE
- 1997 - 2002** Member Faculty Equal Opportunity Committee, FAS, Bristol UWE
- 1997 - 2000** Member Advisory Committee Centre for Applied Research in Sciences, FAS, Bristol UWE
- 1997 - 2005** Member Advisory Committee Centre for Research in Applied Social Care and Health, Faculty of Health and Social Care
- 1996 - 1997** Member PhD Appeal Panels, University of Hertfordshire (UH)
- 1995 - 1997** Member Faculty Research Committee, Faculty of Natural Sciences, UH
- 1994 - 1997** Chair Faculty of Natural Sciences Ethics Committee, UH
- 1994 - 1997** Member University Ethics Committee, UH
- 1994 - 1997** Member Clinical Sciences Ethics Committee, UH
- 1994 - 1997** Member Health Sub-Committee University Research Policy Committee, UH
- 1992 - 1997** Deputy/Director of the Cellular Toxicology Unit/CellTox Centre, UH

Programme/Curriculum Development

- 1990 - 2007** Various roles: chair, external panel scrutineer, internal panel member, award team for numerous Doctoral/Masters/Bachelors degree schemes UWE Bristol, University of Hertfordshire, Roehampton Institute, University of Surrey, Anglia Polytechnic University, University of Plymouth, London School of Osteopathy.
Key skills: strategic planning; resource planning; marketing; curriculum design to ensure currency, innovation and equality of opportunity; approaches to teaching and learning; measurement of learning outcomes through assessment; development of key skills; external liaison, with professional bodies and others; quality management.
- 2003** Chair Validation Panel, MSc Programmes in Computing, Engineering and Mathematical Sciences, Bristol UWE
- 2002** Chair Validation Panel, MA Management Learning with IBM, Bristol UWE
- 2002** Member of External Panel for MA Creative Talents & Solutions for Sainsbury's with Consultants Jo Ouston, Bristol UWE
- 2001** Chair Validation Panel, BSc Awards in Computing & Telecommunications and Computer Systems Engineering, Bristol UWE
- 2001** Chair Validation Panel, LLB Awards in Law, Bristol UWE
- 2000** Chair Validation Panel, LLM Awards in Law, Bristol UWE
- 1999** Panel Member, University Professional Development Programme, Bristol UWE

- 1999** External Consultant, Subject Programme Review in 'Biosciences', Anglia Polytechnic University, Cambs
- 1999** Mentor QAAHE Subject Programme Review in 'Psychology', 'Art, Media and Design', 'Nursing'; Bristol UWE
- 1998 - 99** Subject Leader QAAHE Subject Programme Review in 'Pharmacology and Pharmacy, Molecular Biosciences and Organismal Biosciences'; scored 4 in all six aspects, Bristol UWE
- 1998** Member Validation Panel, BSc (Hons) Human Biology, University of Plymouth, Devon
- 1997 - 1998** Member Award Development Committee, BSc (Hons) Biomedical Sciences, Bristol UWE
- 1998** Member Validation Panel, Course Team, BSc (Hons) Biomedical Sciences, CPSM/IBMS, Bristol UWE
- 1997 - 1998** Member Award Development Committee, MSc/PgDip Biomedical Sciences, Bristol UWE
- 1997 - 1998** Chair Biological and Biomedical Sciences Field Review, Bristol UWE
- 1996** Member Scrutiny Panel, Pre-registration Diploma in Higher Education: Nursing, University of Hertfordshire (UH)
- 1995 - 1996** Member Scheme Development Committee, PgC/PgD Pharmacovigilance, UH in association with SIGAR (full cost)
- 1995 - 1997** Member Applied Biology Schemes Review, UH
- 1994 - 1997** Chair Scheme Development Committee, BSc (Hons) Medical Laboratory Sciences, UH in association with SBIE/IST Athens, Greece (for franchise)
- 1994** Member Scheme Development Committee, MSc Portfolio in Clinical and Pharmacological Sciences, UH
- 1992 - 1995** Member Cambridgeshire Project 2000 University Group, UH
- 1993 - 1994** Member Working Party on Academic Support, Cambridgeshire Project 2000
- 1992 - 1994** Member Scheme Development Committees (Common Foundation Programme and Adult Branch), Cambridgeshire Project 2000
- 1992 - 1994** Member Scheme Development Committee MSc Medical Imaging Science (Ultrasound), UH
- 1992** Member Validation Panel, Course Team, MSc Medical Imaging Science (Ultrasound), UH
- 1992** Member Validation Panel, Course Team, BSc (Hons) Radiography, UH
- 1992** Member Scheme Development Committee, BSc (Hons) Radiography, UH
- 1991** Member Revalidation Committee, Internal Panel, MSc Behavioural Biology and Health Care, Roehampton Institute (Surrey)
- 1991** Member Scrutiny Panel, MSc Behavioural Biology & Health Care, Roehampton Institute (Surrey)
- 1990** Member Revalidation Committee, Course Team, BSc (Hons) Health Studies & Member Scrutiny Panel, Diploma in Specialist Nurse (Diabetes), Roehampton Institute (Surrey)

Past Academic Consultancy

- 2015** British Gas: sustainability and university top team issues
- 2015** BP: sustainability and graduate attributes
- 2014** HEFCE: 'anchor' institutions and HE policy

2014 Pearson: top team issues in higher education
2014 Talent Retention Solution: student and graduate employability
2014 External Assessor National University of Ireland, Galway: Reader/Professor
2014 Welsh government: qualification reform in Wales
2013 BIS: Witty Review see https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/249720/bis-13-1241-encouraging-a-british-invention-revolution-andrew-witty-review-R1.pdf
2013 Unite Board: higher education trends
2009 - 2011 BIS: Postgraduate Review see <http://webarchive.nationalarchives.gov.uk/20121212135622/http://www.bis.gov.uk/assets/BISCore/corporate/docs/P/10-704-one-step-beyond-postgraduate-education.pdf>
2009 - date Department of Health & Medical/Health Education England: healthcare science
2005 Consultant to Xenogen, San Francisco CA, USA: technology related to lux genes and *in vitro* model development.
2004 Invited by SEMTA, the Sector Skills Council for Science, Engineering, Manufacturing and Technologies, to advise Ian Gibson as Chair of the Science and Technology Committee on HE science and business/industry links
2004 Invited to advise to Dr Graeme Reid, Director of Exploitation at the Department of Trade and Industry, Office of Science and Technology on the impact of SRIF on University science
2004 Invited to Virginia Commonwealth University, Richmond, US to further academic exchange and collaborative research links
2004 Invited by Royal Society to advise on research plan to review barriers for practicing scientists in engaging with the media
2004 External Assessor, Portsmouth University: Readership Panel
2003 External Assessor, Anglia Polytechnic University: Dean of Science Appointment Panel
2002 External Assessor, University of Salford: Professorial Appointment Panel
2002 External Assessor, University of Hertfordshire: Readership Panel
2000 External Assessor, University of Glamorgan: Dean of Science Appointment Panel
2003 - 2005 Consultant to Pfizer, Amboise, France on 'Spheroid *in vitro* models'
1999 - 2002 Consultant to Amersham Pharmacia Biotech, Cardiff on '*In vitro* technology in toxicology'
1999 Consultant, Subject Programme Review in 'Biosciences'; Anglia Polytechnic University, Cambs
1998 Editor/author textbook 'Approaches to high-throughput toxicity screening', Taylor & Francis
1996 - 2012 BBC World Service Science Unit, Science/Health Advisor/Programme Contributor, Freelance
1996 - date Women in Technology, European Handbook of Women Experts in Science, Engineering and Technology: Biological Sciences
1994 - 2010 BBC Radio 5 Live, Science/Health Advisor/Programme Contributor
1994 External Assessor, Readership Panel 'Pharmacology & Human Physiology'; St. Martins College Lancaster, Lancs

Research Project Management

- 2004 - 2007** EPSRC In Vitro Project Manager for 'Non-linear media based computers: chemical and neuronal networks through machine learning', Bristol UWE
- 2004 - 2007** ESRC Biomedical Cell Cultures Project Manager for 'Forgotten Foetuses: A sociocultural analysis of the use of fetal stem cells'
- 2002 - 2003** EU SensaCellTox - In Vitro Project Manager for bid, Bristol UWE
- 2001 - 2005** Founder and Director of the UWE Bristol Genomics Research Institute, Bristol UWE; now Executive Director
- 2000 - 2005** Founder and Director of the Centre for Research in Biomedicine, Bristol UWE; now Executive Director of CRIB
- 2000 - 2001** Project Manager, Amersham Pharmacia Biotech: UWE research contract on '*In vitro* toxicology and spheroids'
- 1997 - 2000** Research Leader, Department of Biological and Biomedical Sciences, Faculty of Applied Sciences, Bristol UWE
- 1996 - 1997** Director of the Cellular Toxicology Unit/CellTox Centre, University of Hertfordshire, Herts
- 1992 - 1995** Deputy Director of the Cellular Toxicology Unit/CellTox Centre, University of Hertfordshire, Herts
- 1994 - 1997** Research Leader, Brain Spheroids in Neurotoxicity Testing; Cellular Toxicology Unit, University of Hertfordshire, Herts
- 1994 - 1996** Research Leader, Peripheral Neuropathy; Cellular Toxicology Unit, University of Hertfordshire, Herts
- 1992 - 1997** Research Leader, Neuroimmunology/immunotoxicology; Cellular Toxicology Unit, University of Hertfordshire, Herts

Research Grants

- 2014** Mechanistic Application of Spheroids Cell Culture to 3Rs in Fish Ecotoxicology; **BBSRC-CASE** Award with **AstraZeneca** and **NERC**, PI Professor Awadhesh Zha (Plymouth) and co-applicants Wendy Purcell (Plymouth), Stewart Owen (AZ); **£600,000**
- 2005** **EU** 'Novel Testing Strategies for In Vitro Assessment of Allergens (Sens-it-iv); **12.66 million euros** (Erwin Roggen PI & Wendy Purcell co-applicant et al).
- 2004** **£406,588 from BBSRC** Engineering and Biological Systems Branch (£127k to UWE) awarded for a project entitled 'Progression of animal cell interactions and intra-cellular processes triggered on contact in ultrasound standing wave traps.' to Terry Coakley (PI, Cardiff) and co-applicants Wendy Purcell (UWE), Charles Archer (Cardiff), Jim Ralphs (Cardiff). BB/C515220/1
- 2004** **£1.2 million from EPSRC (£568k to Bristol UWE)** awarded for a project entitled 'Non-linear media based computers: chemical and neuronal networks through machine learning' to Larry Bull PI and co-applicants Andrew Adamatsky (CEMS) and Wendy Purcell and Ben de Lacy Costello (FAS) with Michael O'Shea at University of Sussex and Annette Taylor at University of Leeds. GR/S63854
- 2004** **£147,685 from the ESRC** was awarded for a project entitled 'Forgotten Foetuses: A sociocultural analysis of the use of fetal stem cells' to Julie Kent (PI) and co-applicants Wendy Purcell with Naomi Pfeffer at

London Metropolitan University and Gordon Stamp **Imperial College London.**

2003 £60k EPSRC Research Cluster funding 'Novel computation: coping with complexity'; these research clusters are eligible to bid to a ring-fenced EPSRC fund of £10 million in support of their planned research programmes.

2001 - 2002 £796k in grants competitively awarded by Amersham Pharmacia Biotech, Roche Discovery, Pfizer

1998 - 2000 £342k in grants competitively awarded by Roche Discovery Welwyn, Amersham Pharmacia Biotech, HEFCE CollR and DevR funds.

1995 - 1997 £485k in grants competitively awarded by government research councils, BBSRC and MAFF, in collaboration with the pharmaceutical industry:

- **Glaxo-Wellcome/BBSRC ROPA 1995:** Mast cells *in vitro*: new models to assess pharmaco-toxicological effects of neurotrophic factors.
- **MAFF 1996:** Development and initial validation of an *in vitro* model to replace the 'Hen Test in screening organophosphorus pesticides for neurotoxicity: 'Chick Brain Spheroids'.
- **SmithKline Beecham/BBSRC ROPA 1996:** Inflammatory mechanisms in the gastrointestinal tract.
- **Roche Discovery 1997, 1998:** In vitro studies with spheroids

1992 - 1994 £205k in grants competitively awarded by research charities, research studentships, consultancy-funding. The Wellcome Trust; The Royal Society European Science Exchange Programme in Toxicology; Dr Hadwen Trust for Humane Research.

Research Work by Invitation/External Collaboration

- Professor Dr Jack Spengler, Harvard University, Center for Health and the Global Environment: executive leadership for sustainability, social enterprise, innovation ecosystems
- Dr Stewart Owen, AstraZeneca: fish liver spheroids.
- Dr David Tosh, University of Bath: liver cell differentiation and development.
- Dr Sakis Mantalaris, Imperial College of Science & Technology: spheroids and tissue engineering.
- Dr Samantha Orr, UK Human Tissue Bank: human liver culture models.
- Dr Clare Selden, University College Medical School, Royal Free Hospital; spheroids and tissue engineering.
- Professor J Nicholson, Imperial College of Science & Technology: spheroids and NMR metabolomics.
- Professor T Coakley, Cardiff University: spheroids and ultrasonics.
- Professor J Hadgraft, The Welsh School of Pharmacy, Cardiff University and Western Arc Biosciences Platform: skin spheroids for skin irritancy and barrier function as alternatives to animals for cosmetic testing and pharmaceutical formulations.
- Dr C Reinhardt, Swiss Institute of Alternatives to Animal Testing, Switzerland: organotypic chick brain reagggregates as an *in vitro* model in neurotoxicity testing.
- Dr M Haffner, Mannheim University, Germany: *in vitro* models of ischaemia-reperfusion injury and calcium imaging.

- Ms J Kelly, Corning Hazelton Laboratories, Harrogate: mast cells, *in vitro/in vivo* models in neurotoxicity testing.
- Dr B Rogers, Genetech, USA: neurotrophic factors.
- Dr R Lindsay, Regeneron, USA: neurotrophic factors.
- Dr A Hutchings, Roche Discovery: experimental allergic encephalomyelitis.
- Dr C Chandler, University of Luton: cytokines and rheumatoid arthritis.
- Dr P Shah, Allergy & Immunology Department of Paediatrics, Aarhus Lummehospital, Denmark,: gastrointestinal inflammatory diseases.
- Professor F Pearce, University College London: mast cells.
- Dr M Church, University of Southampton: mast cells.
- Dr I Rudolph, Universida de Concepcion, Chile: mast cells.

Research Students

- European Science Fellowship (Toxicology) 1996, supervisor to Ms Charlotte Teunissen of the Institute of Medical Chemistry, University of Veterinary Medicine Vienna, Austria for a programme of work entitled 'The use of histotypic brain spheroids in studying polychlorinated biphenyl-induced neurotoxicity'.
- ERASMUS Toxicology (1993-94), research studentships, Hogeschool Gelderland, Nijmegen, the Netherlands. Mr Rogier van Otterlo, Ms Marianka Derks.
- Supervisor of undergraduate and post-graduate (MSc) research projects and industrial placements in Pharmacology, Toxicology, Biomedical Sciences, Molecular Biology, Protein Chemistry, Pharmacological Biochemistry, Clinical Sciences, Health Studies, Medical Imaging.
- PhD student Laura Langan (current): Applications of 3D spheroid cultures in fish ecotoxicology.
- PhD student Eleanor Butland (current): The role of incubators in improving the long term sustainability of social enterprises.
- PhD student (2013) Matthew Baron: Mechanistic Application of Spheroids Cell Culture to 3Rs in Fish Ecotoxicology (CASE award with AstraZeneca)
- PhD student (2007): Amanda Wallington: Liver spheroids and the toxioeme. Bristol UWE
- PhD student (2004): Paula Waits: Nociceptin in the regulation of immune-neuroendocrine function. UWE, Bristol.
- PhD student (2004): Mingwen Ma: A study of the physiological and biochemical characteristics of liver spheroid. UWE, Bristol.
- PhD student (2002): Kian Hwa Tan: Characterisation of T lymphocyte mediated blood-brain barrier damage in an *in vitro* model: relevance to neuroinflammation? UWE, Bristol.
- PhD student (2001): Anne Hutchings: Antigen Presenting Cells and Transplantation: A Comparison of Immune Cell Function between Caucasians and African Americans. UWE Bristol.
- PhD student (2000): Simon Stephan: Colony Stimulating Factors and Nitric Oxide in Rat Cartilage Chondrocytes: Application to Rheumatoid Arthritis.
- PhD student (2000): Kevin Sales: Development of an *in vitro* paradigm to model aspects of organophosphate-induced neurotoxicity: hen embryo brain spheroids. University of Hertfordshire.
- PhD student (2000): Andrew Brooks: Mast cells and free radicals: relationships between histamine release, reactive oxygen species and nitric oxide. University of Hertfordshire.

- PhD student (1999): Wei Zhang: Histochemical and Immunocytochemical Characterisation of Mast cells from Charles River Wistar Rats.
- PhD student (1999): Claire Westgate: Rat mast cells and the neuroimmune axis: pharmacological and toxicological perspectives. University of Hertfordshire.

Research Vivas

- PhD viva (2005): Peter Wilkinson: Development of an in vitro model to investigate repeat ocular exposure. Nottingham University. [External Examiner]
- PhD viva (2004): Robert Prince: Pharmacology of the locust extensor tibia neuromuscular junction. UWE, Bristol. [Internal Examiner]
- PhD viva (2004): Sarah Choudhury: An investigation of mechanisms responsible for modulated biosynthetic function in 3-dimensional cultures of a human hepatocyte cell line, for potential use in a bioartificial liver support system. University of London, Kings College London [Chief External Examiner]
- PhD viva (2001): Bassam Zeina: Killing of cutaneous microbial species by photodynamic therapy. UWE, Bristol.
- PhD viva (2001): M Dobbie: The ECV304/C6 cell culture model of the blood brain barrier: barrier integrity and glutathione status. University of London. [External Examiner]
- PhD viva (1998): Ann Smith: An investigation of the effects of recombinant human cytokines on the sensitivity of normal haemopoietic, and acute myeloblastic leukaemia progenitors to cytosine arabinoside. UWE Bristol. [Internal Examiner]
- PhD viva (1998): C Mead: Studies of toxic responses in cultured astrocytes. University of Salford. [External Examiner]
- PhD viva (1996): D J Andrew: The effects of toxins on haemopoietic growth-factor dependent cell lines. University of Leeds. [External Examiner]
- PhD viva (1995): B F Gibbs: Some studies on the release of cytokines and other mediators from mast cells of the rat and human. University College, London. [External Examiner]
- MPhil viva (1993): C M Sullens: Compliance of the elderly with medication regimens: determinants and measures to improve. University of Hertfordshire. [Internal Examiner]

Patents (filed)

- Spheroids 9702335.2, 9709899.0, PCT/GB98/00343 [WO 98/35021]
- CNS Drugs 9702310.5, PCT/GB98/0035
- Preparation of Spheroids PCT/GB01/05445
UK Patent Application No. 0029847.1 filed on 7 December 2000
PCT Patent Application No. PCT/GB01/05445 filed 7 December 2001
China Patent Application No. (TBA) filed 6 June 2003
Japan Patent Application No. (TBA) filed 6 June 2003
US Patent Application No. 10/433,928 filed 6 June 2003
European Patent Application No. 01999638.8 filed on 16 June 2003
- High throughput screen assay: patent application 0200721.9

PUBLICATIONS

<https://orcid.org/0000-0002-9820-1526>

- Langan LM, Owen SF, Trznadel M, Dodd NJF, Jackson SK, Purcell WM & Jha AN (2018). SPHEROID SIZE DOES NOT IMPACT METABOLISM OF THE B-BLOCKER PROPRANOLOL IN 3D INTESTINAL MODEL. *Frontiers in Pharmacology*, section Drug Metabolism and Transport (Manuscript submitted 04 Jun 2018; interactive review started 22 Jun 2018)
- Purcell WM (in preparation; due for submission Fall 2018). Working Title: LEADERSHIP DISRUPTED (Book for Disruption Books, NY)
- Jha AN, Langan LM, Owen SF, Trznadel M, Dodd NJF, Jackson SK & Purcell WM (submitted 11/17). SPHEROID SIZE DRIVES CELLULAR MICRO-ENVIRONMENT, BUT NOT THE XENOBIOTIC METABOLISM OF PROPRANOLOL IN FISH INTESTINAL CELLS (RTGUTGC) *Cell Biology and Toxicology*
- Purcell WM & Chahine T (submitted 09/17). THE ROLE OF UNIVERSITIES IN UNLOCKING SOCIAL ENTERPRISE TO HELP CREATE A MORE SUSTAINABLE COMMUNITY: A CASE STUDY OF A UK UNIVERSITY
- Purcell WM & Chahine T (submitted 07/17). THE ENTERPRISE UNIVERSITY: A RETROSPECTIVE ANALYSIS OF TRANSFORMATIONAL CHANGE IN AN ENTREPRENEURIAL UK UNIVERSITY AS A PATH TO INSTITUTIONAL SUSTAINABILITY IN RESPONSE TO DISRUPTION IN THE ENGLISH HIGHER EDUCATION SECTOR
- Purcell WM, Sharp L & Chahine T (2017). NEW GOVERNANCE MODELS FOR ENTREPRENEURIAL UNIVERSITIES: A CONCEPTUAL FRAMEWORK. *Academic Proceedings of the 2017 University-Industry Engagement Conference: From Best Practice to Next Practice – Asia-Pacific Opportunities and Perspectives*. ISBN 978-94-91901-25-6; pp 19-29
- Jha A, Langan LM, Harper GMM, Owen SFF, Purcell WM & Jackson SK (2017). APPLICATION OF THE RAINBOW TROUT DERIVED INTESTINAL CELL LINE (RTGUTGC) FOR ECOTOXICOLOGICAL STUDIES: MOLECULAR AND CELLULAR RESPONSES FOLLOWING EXPOSURE TO COPPER. *Ecotox.* (in press; submitted 03/17) *Ecotoxicology* DOI 10.1007/s10646-017-1838-8
<http://rdcu.be/uOhc>https://link.springer.com/epdf/10.1007/s10646-017-1838-8?author_access_token=w_Oru95pjl3ul5qvCnLdlPe4RwiQNchNByi7wbcMAY7wfdRg241w5iGcx49nOb2bMV3hzyxfrhfZyg_yY8b8kr41RZUGLT1cgbNdb2rv0DRxLUKtD7SV00Oaur1nwZXRuVYEm_h8B7WqLf-CRL2ng%3D%3D
- Logan L, Jha A & Purcell WM (2016). MICROENVIRONMENT FORMATION IN THE RTGUTGC SPHEROID DOES NOT APPEAR TO AFFECT XENOBIOTIC METABOLISM OF PROPRANOLOL. *PLoS ONE* (in press; submitted 09/2016 and accepted 11/2016)
- Owen SF, Baron MG, Mintram KS, Hetheridge MJ, Moody JA, Purcell WM, Jackson SK & Jha AN (2016). PHARMACUETICAL METABOLISM IN FISH: USING A 3-D HEPATIC IN VITRO MODEL TO ASSESS CLEARANCE. *PLoS ONE* (submitted 03/2016 and accepted PONE-D-16-13095)
- Purcell, WM (2016). FUTURE PROOFING UNIVERSITIES: WHY IT'S ALL DOWN TO THE CIO. <https://dropeverything.co.uk/post/future-proofing-universities-why-it%E2%80%99s-all-down-cio>

- Purcell, WM (2016) Editorial Group. POSSIBILITY THINKING: REIMAGINING THE FUTURE OF FURTHER EDUCATION AND SKILLS. RSA Action and Research Centre and Further Education Trust for Leadership; Ed. Mark Londesborough. <https://www.thersa.org/discover/publications-and-articles/reports/possibility-thinking-reimagining-the-future-for-fe-and-skills>
- Purcell WM, Beer J & Southern, R (2016). DIFFERENTIATION OF ENGLISH UNIVERSITIES: THE IMPACT OF POLICY REFORMS IN DRIVING A MORE DIVERSE HIGHER EDUCATION LANDSCAPE. Perspectives: Policy and Practice in Higher Education 20(1): 24-33. DOI: 10.1080/13603108.2015.1062059; <http://dx.doi.org/10.1080/13603108.2015.1062059> <http://www.tandfonline.com/doi/abs/10.1080/13603108.2015.1062059>
- Langan LM, Dodd NJF, Owen SF, Purcell WM, Jackson SK & Jha AN (2016). DIRECT MEASUREMENTS OF OXYGEN GRADIENTS IN SPHEROID CULTURE SYSTEM USING ELECTRON PARAMAGNETIC RESONANCE OXIMETRY. PLoS ONE 11(2): e0149492 doi: 10.1371/journal.pone.0149492
- Purcell WM & Paton I (2015). TEN REASONS TO BUILD RESILIENCE INTO THE FUTURE OF YOUR UNIVERSITY – A BUSINESS GUIDE FOR UNIVERSITY GOVERNORS. EAUC with Committee of University Chairs and Leadership Foundation. http://www.sustainabilityexchange.ac.uk/files/business_guide_for_uni_governors_single_page_final.pdf
- Purcell, WM (2014). DISRUPTION AND DISTINCTIVENESS IN HIGHER EDUCATION. Perspectives: Policy and Practice in Higher Education 18(1): 3-8. <http://www.tandfonline.com/doi/full/10.1080/13603108.2014.882426>
- Purcell, WM (2014). EMPLOYABILITY IS OUR JOB. Inside Higher Education. <https://www.insidehighered.com/views/2014/06/13/essay-says-colleges-and-universities-should-be-judged-employability>
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LinkedIn Blogs

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Selected Keynote Presentations

- University-Business Forum, 'HEI Governance: How can good practices from private and public sector inspire the governance of higher education', Sofia, Bulgaria; Feb 2018.
- American University in Bulgaria and the Bulgarian Soft Drinks Association, 'Reframing sustainability: leadership and innovation', Sofia, Bulgaria; Oct 2017.
- University Industry-Innovation Network, 'New Governance Models for Entrepreneurial Universities: A Conceptual Framework', Adelaide, Australia; Feb 2017.
- Office of Naval Research Faculty Development Research Institute for Minority Serving Institutions and Science, Technology, Engineering and Mathematics, 'Strategic research partnering', Indiana, US; July 2016.
- Cell and Gene Therapy Congress & 2nd Annual Stem Cell Congress, '3D cell culture development for stem cell manufacture', London, UK; Nov 2015.
- University-Industry Interaction Conference, 'Universities driving regional growth through enterprise', Berlin, June 2015.
- Routledge Global Higher Education series, 'Developing an innovative, independent, sustainable future for higher education across the UK', London, May 2015.
- Environmental Association of Universities and Colleges Annual Conference on 'Building resilience into the future of university governance – a business guide for university governors', Leeds, UK; March 2015.
- Inside government 'Implementing the Witty Review: One year on', London, UK; Jan 2015.
- University-Industry Interaction Conference, 'Universities driving regional growth through enterprise', Berlin, Germany; June 2015.
- Policy Knowledge Briefing on Policy priorities for higher education – a manifesto for the new government, 'Universities as place makers – joining the policy dots to secure efficiencies', London, UK; June 2015.
- Routledge Global Higher Education series, UK Higher Education Regulation Reform 'Developing an innovative, independent, sustainable future for Higher education across the UK', London, UK; May 2015.
- Environmental Association of Universities and Colleges Annual Conference on 'Building resilience into the future of university governance – a business guide for university governors', Leeds, UK; March 2015.
- Inside government 'Implementing the Witty Review: One year on', London, UK; January 2015.
- Innovate UK 2014 conference on 'Collaborating for global success', London, UK; Nov 2014.
- Westminster Social Policy Forum on 'Regeneration and local economic growth in England', London, UK; Nov 2014.
- University Human Resources Annual Conference on 'Uncertainty and ambiguity', Warwickshire, UK; May 2014.
- Times Higher Education inaugural Young Universities Summit on 'Developing a niche, building a vision and establishing a brand', Miami, USA; April 2014.
- Innovate UK 2014 conference on 'Collaborating for global success', London, UK; November 2014.
- Westminster Social Policy Forum on 'Regeneration and local economic growth in England', London, UK; November 2014.
- University Human Resources conference on 'Uncertainty and ambiguity', Warwickshire, UK; May 2014.

- Times Higher Education Inaugural Young Universities Summit on 'Developing a niche, building a vision and establishing a brand', Miami, USA; April 2014.
- Times Higher Education Top 100 under 50 World Universities Ranking, expert panel debate, Miami, USA; April 2014.
- British Council Going Global conference on 'Disruption and distinctiveness in higher education', Miami, USA; April 2014.
- British Council Going Global conference, University Alliance on 'Creating an enterprise culture for highly employable graduates', Miami, USA; April 2014.
- BIS conference on 'Public service role of BIS', London, UK; April 2014.
- Inside Government 'Implementing Witty' conference on Case study: Universities at the heart of economic growth – experience from an enterprising university', London, UK; March 2014.
- Leadership Foundation 'Governance in a new economic climate' governor development day on 'The business case for sustainability', Bristol, UK; February 2014.
- Association of University Administrators 16th Annual Lecture on 'Disruption and distinctiveness in higher education', Birmingham, UK; October 2013.
- Inside Government conference on 'Supporting growth through research and innovation in higher education' as Expert Advisor to the Witty Review, London, UK; September 2013.
- Unite Board on 'Positioning for success: good to great', Plymouth, UK; April 2013.
- British Council conference 'Entrepreneurship in UK universities', Boston, USA November 2012.
- University of the Third Age, on 'The Science of Cultures'; October 2012.
- University Alliance 'University Vision' on 'The university: an anchor in a sea of change' on the theme of the continued importance of universities in an ever changing world; September 2012. The posting can be accessed at <http://universityvision.org.uk/2012/09/25/the-university-an-anchor-in-a-sea-of-change/>
- National Council for Healthcare Science in Higher Education on 'We need to look beyond the Victorian view of doctors and nurses' on the essential role of Healthcare Scientists in the NHS. The posting may be accessed at http://www.huffingtonpost.co.uk/wendy-purcell/victorian-medicine-doctors-nurses_b_1935471.html?utm_hp_ref=uk
- International Enterprise Educators Conference on 'Harnessing the power of social enterprise partnerships', Plymouth, UK; September 2012.
- British Council, Going Global conference on 'Pathways to the future', London, UK; March 2012.
- Royal Society on 'University-business collaboration', London, UK; March 2012.
- UK-Dutch Apeldoorn conference on 'Higher education at the heart of growth', Manchester, UK; March 2012.
- UNESCO Eco-Campus Conference on 'Governance and sustainable development', Paris, France; January 2012.
- Policy Exchange on 'Innovation and commercialisation', London, UK; October 2011.
- Institution of Engineering and Technology on 'Ensuring STEM degrees meet the needs of employers', London, UK; October 2011.