

# UK Longevity Influencers



David Sinclair



Baroness Sally  
Greengross OBE



Eric Kihlstrom



Helen Whately



John Bell



Matt Hancock



Andrew Scott



Charles Alessi



Aubrey de Grey



Tina Woods



Jim Mellon



Dmitry  
Kaminskiy



David Amess

# UK Longevity Influencers

Top Longevity Scientists and Experts



Malcolm Jackson



Tom Kirkwood



George P. Willis



Helen R. Griffiths



Martin Green



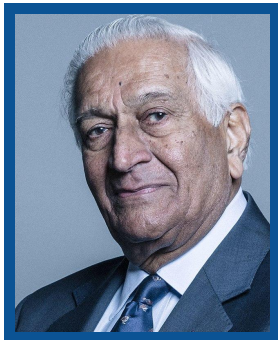
Anders Sandberg



Tim Spector



Ben Franklin



Narendra Patel



Qing-Jun Meng



Ilora Gillian Finlay



Leslie Arnold Turnberg



Dame Denise Platt



Philippa Whitford



Linda Partridge



David Kipling



Paul Keith Potter



Julia Neuberger



John Speakman



Suzanne Wait



Jon Date



Paul Thornalley



Janet Thornton



Manlio  
Vinciguerra



Thomas von  
Zglinicki



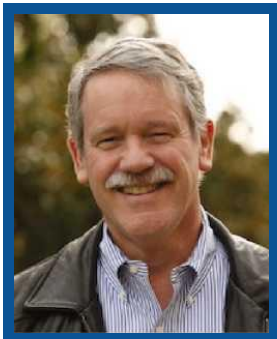
William Bains



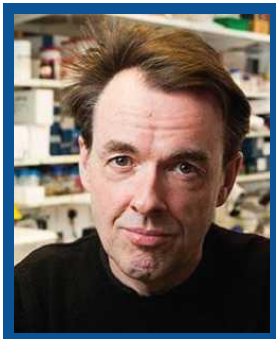
Richard Barker



Richard Faragher



Robert Freitas



David Gems



Andrew Krentz



Aisling Burnand



J. P. de  
Magalhaes



Anne McArdle



Cleo Bishop



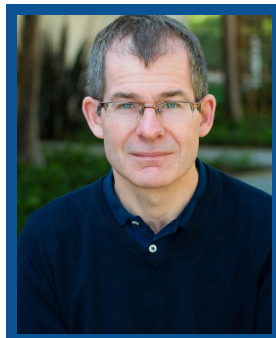
Dr Richard Siow



John Pattison



Maggie Throup



Peter Adams



Janet M. Lord



Colin Blakemore



Sally-Marie  
Bamford



# David Sinclair

Director of the International Longevity Centre – UK

David has worked in policy and research on ageing and demographic change for 15 years.

David has a particular interest in older consumers, adult vaccination, active ageing, financial services, and the role of technology in an ageing society. He has a strong knowledge of UK and global ageing society issues, from healthcare to pensions and from housing to transport.

David has worked extensively on the issue of adult vaccination over the past eight years. He was a leading member of the SAATI coalition and is a board member of the Coalition for Life Course Immunisation.

David has presented on longevity and demographic change across the world (from Stafford to Seoul and Singapore to Stormont). In 2016 David won the Pensions-Net-Work Award for “The most informative speaker 2006-2016”. He is frequently quoted on ageing issues in the national media.

David is a member of the judging panel for the British Society of Gerontology Outstanding Achievement Award. He is a member of the Editorial Board for “Working with Older People”. David is a member of the Advisory Panel for the International Centre for Lifecourse Studies.

**Education and qualifications:** David Sinclair graduated from Elfed High School (1986-2003) and studied British Politics and Legislative Studies at Hull University (1993-1997).

**Appointments:** David is a Chair of a London based charity (Open Age) which enables older people to sustain their physical and mental fitness, maintain active lifestyles and develop new and stimulating interests. He works as an “expert” for the pan-European Age Platform. He is also a member of the BT Customer Inclusion Leadership Panel. He works as a member of three DWP Age Action Alliance Working Groups and is the former Vice-Chair of the Government’s Consumer Expert Group for Digital Switchover.





# Baroness Sally Greengross

Chief Executive of the International Longevity Centre – UK

Baroness Sally Greengross has been a crossbench (independent) member of the House of Lords since 2000 and Co-Chairs four All-Party Parliamentary Groups: Dementia, Corporate Social Responsibility, Continence Care and Ageing and Older People. She is the Vice Chair of the All-Party Parliamentary Group on Choice at the End of Life, and is Treasurer of the All-Party Parliamentary Group on Equalities. Sally is also Chair of the cross-party Intergenerational Fairness Forum.

Was Co-President of the ILC Global Alliance from 2010-17 and is now their Special Ambassador; and was a Commissioner for the Equality and Human Rights Commission from 2006-12. Baroness Greengross was Director General of Age Concern England from 1987 until 2000. Until 2000, she was joint Chair of the Age Concern Institute of Gerontology at Kings College London, and Secretary General of Eurolink Age. She is an Ambassador for Alzheimer's Society, SilverLine and HelpAge International.


Baroness Greengross is a Member of several advisory boards including Home Instead's Global Strategy Council; Fujitsu's Responsible Business Board; and BlackRock Retirement Institute's Advisory Council.

She is President of the Pensions Policy Institute and the Association of Retirement Housing Managers; Honorary Vice President of the Royal Society for the Promotion of Health, a Vice President of the Local Government Association and Honorary Fellow of the Royal Society of Medicine and the Institute & Faculty of Actuaries.



**Education and qualifications:** Baroness Greengross was educated at Brighton and Hove High School. She went on to study at the London School of Economics and Political Science.

**Appointments:** Her work on ageing has been recognised by the UN Committee on Ageing and she received an outstanding achievement award from the British Society of Gerontology as well a British Geriatric Society Medal. Sally was UK Woman of Europe in 1990 and has been an Ambassador for the Prince of Wales supporting responsible business practice.

The logo for Innovate UK, featuring the text "Innovate UK" in a purple, sans-serif font. The logo is set against a light beige background with a purple curved shape at the bottom right corner.

Innovate UK

# Eric Kihlstrom

Interim Director of Healthy Ageing Industrial Strategy Challenge Fund

As interim Director of Healthy Ageing Industrial Strategy Challenge Fund, I lead change across industry, Government, 3rd sector and academia to unlock opportunities that come with demographic changes.

Former Digital Transformation Strategy Director with 30+ years of delivering impactful innovation to multi-national corporations as well as rapid growth start-ups. Part of pioneering team to disrupt telecoms industry in the nineties. Continue to deliver transformation via people-centred, analytics based, lean innovation.

Eric is the Co-founder of KareInn, a care innovation company focused on improving the quality of life for our parents' generation. KareInn helps carers be more productive so they can deliver more personalised care. He is a former Digital Transformation Strategy Director with 27 years of delivering innovation to multi-national corporations as well as rapid growth start-ups. As well he is a part of pioneering team to disrupt telecoms industry in the nineties, continuing to deliver transformation via user focus, analytics and lean innovation.

## Education and qualifications:

- University of Pennsylvania (1983 – 1987) BA in Economics
- New York University (1991 – 1993) MBA in Finance



# Helen Whately

Member of Parliament for Faversham and Mid Kent and Chair of the APHG

Helen Whately is a British Conservative Party politician who has been the Member of Parliament (MP) for the Faversham and Mid Kent constituency in Kent since 2015.

Helen also sat on the Health Select Committee in the 2015-17 Parliament.

Helen has an established career in business and healthcare. For nearly a decade, she has worked with NHS hospitals, helping them improve care and make the most of resources. She has also advised healthcare regulators and commissioners, and worked on healthcare policy.

Previously Helen ran a business unit at AOL Time Warner, negotiated deals for AOL Europe and trained as a management accountant at PricewaterhouseCoopers.

Alongside her career, Helen has worked with several charities as a volunteer and advisor, and been a school governor.

**Education and qualifications:** Her early education was at Westminster School, London. She graduated with a bachelor's degree in Philosophy, Politics and Economics (PPE) from Lady Margaret Hall, Oxford.

**Appointments:** Since 2015, Helen has been a vice-president of the Maidstone branch of the learning disability charity Mencap. Helen became the PPS to the Secretary of State for Education, and Minister for Women and Equalities Justine Greening. She also became the chair of the APPG for Health, and Personalised Medicine and continued to be chair of the APPG for Mental Health, and Fruit and Vegetable Farmers.





# Sir John Bell

Board Member of the UK Clinical Research Collaboration and UK Biobank and is Chairman of the Oxford Health Alliance

Professor Bell went to Oxford as a Rhodes Scholar to train in medicine and undertook postgraduate training in London and at Stanford University. At Stanford he developed research interests in the area of immunology and genetics with a particular focus on characterising the molecular events associated with susceptibility to autoimmune diseases.

He was appointed by the Chancellor of the Exchequer in 2006 to Chair the Office for the Strategic Coordination of Health Research (OSCHR), the body responsible to coordinate the research functions of the NIHR and the MRC. In 2008 he was made a Fellow of the Royal Society and was made a Knight Bachelor for his services to Medical Science. He was President of The Academy of Medical Sciences from 2006 to 2011.

Professor Bell sits on a wide range of advisory panels for public and private sector bodies responsible for biomedical research in Canada, Sweden, Denmark, France, Singapore and the UK. He sat on the Scientific Advisory Board for AstraZeneca from 1997 to 2000 and has sat on the Scientific Advisory Board of the Roche Palo Alto facility since 1998. He is a non-executive director of Roche AG (since 2001) and of Genentech (since 2009). He is a member of the Bill and Melinda Gates Foundation Scientific Advisory Committee.

He is a founding director of three biotechnology start up companies.

## Education and qualifications:

- Oxford University
- Postgraduate training in London and at Stanford University.

**Appointments:** Professor Bell was elected a Fellow of the Academy in 1998.



# Matt Hancock

Secretary of State for Health and Social Care

Matthew John David Hancock (born 2 October 1978) is a British politician of the Conservative Party serving as Member of Parliament for West Suffolk since 2010 and Secretary of State for Health and Social Care since 2018.

Hancock was born in Cheshire, where his family run a software business. Hancock studied PPE at Exeter College, Oxford and Economics at Christ's College, Cambridge. He worked as an economist for the Bank of England before becoming an economic advisor (and later Chief of Staff) to George Osborne.

Following his election in 2010, he served in a number of middle-ranking ministerial positions from September 2013 onwards under both David Cameron and Theresa May. He was promoted to the Cabinet as Secretary of State for Digital, Culture, Media and Sport in January 2018. On 9 July 2018, after the promotion of Jeremy Hunt to Foreign Secretary, Hancock was named Secretary of State for Health and Social Care.

In summer 2018 he presided over the appointment of Dr Demis Hassabis CBE, co-founder of DeepMind as advisor at the Government Office for AI, and Tabitha Goldstaub, co-founder of CognitionX (an AI advice platform), made chair of the UK AI Council.



**Education and qualifications:** Educated at Farndon County Primary School, West Cheshire College and The King's School, Chester. He gained a degree in Philosophy, Politics and Economics from Exeter College, University of Oxford, and a Masters Degree in Economics from the University of Cambridge.



**London  
Business  
School**

# Andrew Scott

Professor of Economics at London Business School

Andrew Scott is Professor of Economics at London Business School and a Fellow of All Souls, Oxford University and the Centre for Economic Policy Research. He has previously held posts at Harvard University, London School of Economics and Oxford University. His research and advisory work focuses on the short and long run forces that affect governments and business. He has been an advisor to HM Treasury, Bank of England, the House of Commons, a Non Executive Director at the Financial Services Authority and Economic Advisor to the Prime Minister of Mauritius. He has published widely in leading international academic journals and was Managing Editor of the Royal Economic Society's *The Economic Journal* and Scientific Chair of the Euro Area Business Cycle Network. He has received prizes and research grants for his published work and is a sought after public speaker on future trends. He has won the General Teaching Excellence prize at London Business School and is a co-author of a textbook, *Macroeconomics: Understanding the Global Economy*, which has been translated into four languages and soon will appear in its Fourth Edition.

**Education and qualifications:** Oxford University, Doctor of Philosophy (PhD) Economics London School of Economics and Political Science, Master of Science (MSc) Economics



# Charles Alessi

Senior Advisor at Public Health England



Public Health  
England

Dr Charles Alessi is a GP in south-west London. He is Senior Adviser to Public Health England and in addition acts in a variety of external facing positions with government and other agencies. He is also lead for dementia and risk reduction and recently was appointed as director of antibiotic prescribing for Public Health England as part of the Antimicrobial resistance initiative.

He has extensive experience of health care in a variety of senior positions in both primary and secondary care as well as PCTs and Health Authorities, assuming the role of Chairman of National Association of Primary Care, part of the NHS confederation, from 1st January 2012 until September 2014 where he was at the heart of the recent health and social care reforms. Previously as Medical director and PEC chair, he was intimately involved in the running and setting up of the Kingston Clinical Commissioning Group providing services to over 195,000 patients, 29 practices and over a 130 GPs.

He has extensive experience of working at senior levels both internationally, in both Europe and the Americas. He is internationally active advising both Governments and international organisations. He also has experience of military medicine until recently acting as Director of Medicine and Clinical Governance for the British Armed Forces in Germany.

**Appointments:** On the 1st July 2012 Dr Alessi was appointed Adjunct Research Professor in the faculty of Health Innovation at the Ivey School of Business, and on the 1st July 2013, he was also appointed Adjunct Research Professor in clinical neurosciences at the Schulich school of Medicine and Dentistry, both appointments at the University of Western Ontario, Canada. In September 2014, he was appointed visiting Professor in Psychology and Language Sciences at University College London, England.



# Aubrey de Grey

Chief Science Officer, SENS Research Foundation



Dr. de Grey is the biomedical gerontologist who researched the idea for and founded SENS Research Foundation. Dr. de Grey is Editor-in-Chief of Rejuvenation Research, is a Fellow of both the Gerontological Society of America and the American Aging Association, and sits on the editorial and scientific advisory boards of numerous journals and organizations.

He has also pioneered new privacy, biosafety, ELSI, environmental and biosecurity policies. He is director of an IARPA BRAIN Project and NIH Center for Excellence in Genomic Science. He has co-authored 425 papers, 95 patent publications and one book (Regenesis).

He is known for his view that medical technology may enable human beings alive today to live indefinitely. De Grey's research focuses on whether regenerative medicine can prevent the aging process. He works on the development of what he calls "Strategies for Engineered Negligible Senescence" (SENS), a collection of proposed techniques to rejuvenate the human body and stop aging. To this end, he has identified seven types of molecular and cellular damage caused by essential metabolic processes. SENS is a proposed panel of therapies designed to repair this damage. He is also a member of Flooved advisory board.

**Education and qualifications:** He was educated at Sussex House School and Harrow School. He attended the University of Cambridge, and studied at its constituent college of Trinity Hall. He graduated with a BA in computer science in 1985 and Ph.D. in Biology from the University of Cambridge in 2000.

**Appointments:** His honors include election to NAS and NAE and Franklin Bower Laureate for Achievement in Science.



# Tina Woods

Founder & CEO, Collider Health - health innovation catalyst and ecosystem architect

Tina Woods is the founder of Collider Health, a health innovation catalyst that works with organisations of all shapes and sizes to think and do differently and transform health with meaningful impact. Tina is chair of Future Health Collective, a multi-disciplinary, cross-industry group geared to foster collaboration and radical innovation in areas of unmet need in health and social care.



Tina is currently helping the NHS build their Artificial Intelligence ecosystem, supporting Innovate UK with consortia development for the UK Healthy Ageing Grand Challenge, designing the European Diversity Award for leading insurer AXA Health Tech & You programme, and a number of other projects.

**Education and qualifications:** Tina has a degree in genetics from Cornell University in the USA and an MBA from Cass University in London.



# Jim Mellon

Co-Founder & Chairman at Juvenescence

Jim is a visionary entrepreneur with a flair for identifying emerging global trends. Most notably and very publically, he predicted the credit crunch of 2007-08 in a book entitled "Wake Up! Survive and Prosper in the Coming Economic Turmoil". The book cited catalysts for the impending crisis including unsustainable levels of consumer debt in the western world, a U.S. housing crash, derivative financial instruments and governmental fiscal mismanagement - the rest is history! Jim followed this with "The Top 10 Investments for the Next 10 Years" (2008) and then "Top Ten Investments to Beat the Crunch!" (2009).

With Jim's wealth of knowledge and vast experience allows Burnbrae to capitalise on sound opportunistic investments ideas. Through these investments, Jim has built a worldwide business empire. Jim is serially amongst the top 10% in the Sunday Times Rich List and holds a master's degree in Politics, Philosophy and Economics from Oxford University.

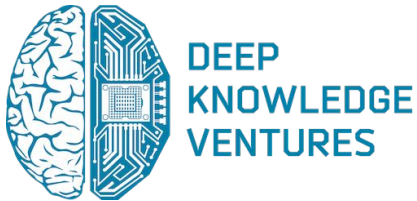
Juvenescence chaired by Jim Mellon, a passionate advocate of using recent scientific advances to promote longevity, has raised \$50m in Series A financing, with another \$100m funding round planned for later this year and an initial public offering in 2019.

**JUVENESCENCE**

**Education and qualifications:** Oxford University

**Appointments:**

- Executive Chairman, The Longevity Forum Ltd.
- Director, Condor Gold Plc.
- Director, IC Technology UK Ltd.



# Dmitry Kaminskiy

Co-founder and a managing partner at Deep Knowledge Ventures

Dmitry Kaminskiy, is an innovative entrepreneur and investor who is active in the fields of BioTech, FinTech, BlockChain, Artificial Intelligence. Kaminskiy is Managing Partner of Deep Knowledge Ventures, an investment fund focused on DeepTech sectors including AI, Precision Medicine and Longevity, as well as Founder of Aging Analytics Agency, the only analytics company focused exclusively on Geroscience, Ageing and Longevity Industry analytics. In 2014 successfully predicted the rise in Longevity Industry financing seen in 2018, at a time when investors, analysts and even geroscientists projected its emergence as being over a decade away. Dmitry is a frequent speaker on the topics of AI and Longevity. During the last several years he spoke at conferences organized in London by The Economist “Aging Societies and The Business of Longevity”, Financial Times “Smart Machines vs Smart People”, and at the Future Finance Forum in Seoul “AI in Finance”, as well as several others at Oxford and Cambridge Universities.

**Education and qualifications:** National Research University of Electronic Technology

**Appointments:** Managing Trustee, The Biogerontology Research Foundation; Managing Partner, Deep Knowledge Ventures; Founding Partner, Deep Knowledge Life Sciences





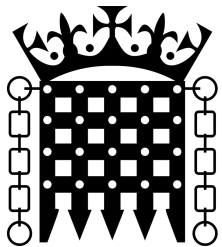
# David Amess

Member of Parliament for Southend West. Chair of the Conservative Party Backbench Committee for Health

Sir David Amess is a British Conservative Party politician. He has been a Member of Parliament (MP) since 1983, first for Basildon, and since 1997 for Southend West.

After more than thirty years in the House of Commons, Sir David Amess joins this APPG with a wealth of experience in a range of issues, particularly in health. Sir David served on the Health Committee from 1998 until 2007 while also serving as Chair of the Conservative Party Backbench Committee for Health since 1999. He also served on multiple Backbench Business Committees from 2012 to 2015 and still serves on the Panel of Chairs as well as the Administration Committee.

David has sponsored numerous successful bills, received the Dods Outstanding Achievement Award in recognition of his lifetime commitment to charitable work and can be found frequently chairing Public Bill Committees, Westminster Hall debates and even Committees of the whole House.



**Education and qualifications:** Amess attended St Anthony's Junior and Infant School, then St. Bonaventure Grammar School on Boleyn Road in Forest Gate and then Bournemouth College of Technology, where he earned a BSc degree with honours in Economics and Government.

**Appointments:** Chairmen's Panel Committee (2001–present), Administration Committee (2015–present), Health Committee (1998–2008). Amess served on the Health Select Committee from 1998 until 2007. Due to his role on the Health Select Committee, he became Chair of the Conservative Party Backbench Committee for Health in 1999. He has campaigned on various health issues since. While a member of the committee, Amess played a prominent role holding an inquiry into the state of obesity in UK, leading to the publication of a report in 2004. The report found that two-thirds of the population of England are overweight or obese and went on to discuss the causes of obesity, as well as making various recommendations to combat the problem. To this day, he maintains an interest in the issue, most recently tabling a series of Parliamentary Questions in July 2013.



# Malcolm Jackson

Head of Institute of Ageing and Chronic Disease; Director of the MRC-Arthritis Research UK Centre for Integrated Research into Musculoskeletal Ageing (CIMA)

Professor Malcolm Jackson was awarded a DSc in 1994 and FRCPATH in 1997. He was a Lecturer at University College London in 1982, Senior Lecturer at the University of Liverpool in 1984 and appointed Professor in 1994 before being appointed Head of the Institute of Ageing and Chronic Disease in 2010.

He is Director of the MRC-Arthritis Research UK Centre for Integrated Research into Musculoskeletal Ageing (CIMA) and serves on the MRC Population and Systems Medicine Board and the Joint Research Councils' Life Long Health and Wellbeing Panel.

Malcolm's primary research interests are in the roles of reactive oxygen species in cell signaling and degeneration, particularly relating to ageing and skeletal muscle. His research is funded by the MRC, BBSRC, the US National Institute on Ageing and the Wellcome Trust.



**Education and qualifications:** Professor Malcolm Jackson completed a PhD at UCL in 1980. He has a BSc in Biochemistry from University College, London.

**Appointments:** Malcolm Jackson was awarded a DSc in 1994 and FRCPATH in 1997.



# Tom Kirkwood

Associate Dean for Ageing in Newcastle University

English biologist who made his contribution to the biology of ageing by proposing the concept of Disposable soma. He is currently a researcher and Associate Dean for Ageing in Newcastle University and he headed the Institute for Ageing and Health in its school of clinical medical sciences.

He is the author of *Time of Our Lives: The Science of Human Aging* (1999), *The End of Age: Why Everything About Aging Is Changing* (2001), and co-author of *Chance, Development, and Aging* (2000, together with Caleb E. Finch). In 2001 he gave the annual Reith Lectures.

In 2004 Professor Kirkwood had been appointed special advisor to the House of Lords Science and Technology Committee, which held an inquiry into ageing.

In 2007 Professor Kirkwood led the "Mental Capital Through Life" study that formed an important element of the Government's 2008 Foresight Report "Mental Capital and Wellbeing: Making the Most of Ourselves in the 21st Century". This highlighted the need to harness the knowledge, skills, lifelong experience and wisdom of older people.



## Education and qualifications:

- BA Mathematics, University of Cambridge, 1972
- MSc Applied Statistics, University of Oxford, 1973
- PhD Biology, University of Cambridge, 1983

**Appointments:** Kirkwood was appointed Commander of the Order of the British Empire (CBE) in the 2009 New Year Honours.



# George Philip Willis

Chair of the Association of Medical Research Charities, President of the Association of Colleges Charitable Trust and a member of the Foundation for Science and Technology.

Baron Willis of Knaresborough is a Liberal Democrat member of the House of Lords, and was Member of Parliament (MP) for Harrogate and Knaresborough from 1997 until retiring at the 2010 general election. Up to that date he was the chair of the House of Commons Science and Technology Committee.

Lord Willis has spent his time in both Houses of Parliament as an active authority in health and scientific affairs he has served as a member and Chair of the House of Commons Science and Technology Select Committee and then as Chair of the House of Commons Innovation, Universities, Science and Skills Select Committee. This was followed by tenure as Chair of the Joint Committee on the Draft Human Tissue and Embryos Bill. Once the House of Commons Science and Technology Select Committee was reinstated, Lord Willis was re-elected as its Chair. Following publication of the Willis Commission Report on the future education and training of pre-registration, Lord Willis was commissioned by Health Education England in partnership with the Nursing Midwifery Council to be the Independent Chair of the Shape of Caring – a review into the education and training of nurses and care assistants.



**Education and qualifications:** He attended Burnley Grammar School on Byron Street in Burnley. He studied at the City of Leeds and Carnegie College (now the Beckett Campus of Leeds Metropolitan University) where he gained a Cert Ed in 1963.

**Appointments:** On 18 June 2010, Willis was created a life peer with the title Baron Willis of Knaresborough, of Harrogate in the County of North Yorkshire and was introduced in the House of Lords on 7 July 2010.



# Helen R. Griffiths

Executive Dean, Faculty of Health & Medical Sciences, University of Surrey. Chair of British Society for Research on Ageing

## Research interests:

- Nutrient-gene interaction - effects on cellular and plasma proteome
- Interplay between lipids/sphingolipids and reactive oxygen species
- Monocyte-endothelial cell dysfunction during inflammation
- Intracellular redox regulation of cell survival and adaptation
- Reversible protein oxidation during signalling, and the effects of irreversible modification on function

## Employment:

- 2005–date Professor in Biomedical Sciences, Aston University
- 1998-2005 Reader in Molecular Biosciences, Aston University
- 1991-98 Lecturer in Pathology (0.5 FTE), University of Leicester
- 1989-91 Lecturer in Clinical Chemistry, University of Birmingham
- 1986-89 PhD, University of Birmingham
- 1985-86 Research Associate, Dept Immunology, University of Birmingham
- 1981-85 BSc. Hons, Biochemistry (Class I), University of Bath

## Membership of Professional Bodies:

- British Society for Research on Ageing (Chair)
- UK Deans of Science (Chair)
- European Society for Free Radical Research (Executive member).
- Biochemical Society Theme Panel III
- Member of the Midlands ARUK, funded by the Alzheimer's Research UK
- BBRSC panel D (member)
- Nutrition Society (member)
- Fellow of the Society of Biology



**Education and qualifications:** Helen Griffiths graduated University of Bath, BSc Biochemistry (1981 – 1985).



# Martin Green

Chief Executive of Care England, Chair of the International Longevity Centre, and a Trustee of Independent Age and the National Aids Trust.

Martin Green has had an extensive career in NGO development, nationally and internationally, and is Chief Executive of Care England, the largest representative body for independent social care services in UK. He is also Chair of the International Longevity Centre, and a Trustee of Independent Age and the National Aids Trust.

In 2013 he was appointed Visiting Professor of Social Care to Buckinghamshire New University. In 2012, in his role as Department of Health Independent Sector Dementia Champion, he led the development of the Dementia Care and Support Compact for The Prime Minister's Challenge on Dementia.

He is also a member of the Secretary Of State for Health's Stakeholder Board; a Dignity Commissioner; a Lambeth Transformation Commissioner; A Member of the Nursing and Care Quality Forum; a Board Member of the National Institute for Health Research (School of Social Care) and a founder trustee of The National Skills Academy for Social Care.

Martin Green writes and broadcasts extensively on social care issues, and is on the Editorial Board of Community Care Market News.



**Education and qualifications:** King Edward VI Morpeth Northumberland, Sociology History Religious Studies (1973 – 1978).

**Appointments:** Martin Green was awarded an OBE for Services to Social Care in the 2012 Queen's Birthday Honours List. In 2008 he was named Care Personality of the Year.



# Anders Sandberg

Senior Research Fellow

Anders Sandberg's research at the Future of Humanity Institute centres on management of low-probability high-impact risks, estimating the capabilities of future technologies, and very long-range futures. Anders is a Senior Research Fellow on the ERC UnPrEDICT Programme and the FHI-Amlin Collaboration.

Topics of particular interest include global catastrophic risk, cognitive biases, cognitive enhancement, collective intelligence, neuroethics, and public policy. He is research associate to the the Oxford Uehiro Centre for Practical Ethics, and the Oxford Centre for Neuroethics. He is on the advisory boards of a number of organisations and often debates science and ethics in international media. Anders has a background in computer science, neuroscience and medical engineering. He obtained his Ph.D. in computational neuroscience from Stockholm University, Sweden, for work on neural network modelling of human memory.

Between 1996 and 2000 he was Chairman of the Swedish Transhumanist Association. He was also the scientific producer for the neuroscience exhibition "Se Hjärnan!" ("Behold the Brain!"), organized by Swedish Travelling Exhibitions, the Swedish Research Council and the Knowledge Foundation, that toured Sweden in 2005–2006. In 2007 he was a postdoctoral research fellow at the Uehiro Centre for Practical Ethics at Oxford University, working on the EU-funded ENHANCE project on the ethics of human enhancement.

Sanders has also supported and advocated cryonics, for example by signing an open letter to support research into cryonics and by being an advisor to the UK Cryonics and Cryopreservation Research Network, a UK advocacy group.



**Education and qualifications:** He holds a Ph.D. in computational neuroscience from Stockholm University, and is currently a James Martin Research Fellow at the Future of Humanity Institute at Oxford University.



# Tim Spector

Professor of Genetic Epidemiology

Tim Spector is a Professor of Genetic Epidemiology and Director of the TwinsUK Registry at Kings College, London. He trained originally in rheumatology and epidemiology.

In 1992 he moved into genetic epidemiology and founded the UK Twins Registry, of 13,000 twins, which is the richest collection of genotypic and phenotypic information worldwide. He is past President of the International Society of Twin Studies and directs the European Twin Registry Consortium (Discotwin) and collaborates with over 120 centres worldwide.

He has demonstrated the genetic basis of a wide range of common complex traits, many previously thought to be mainly due to ageing and environment. Through genetic association studies (GWAS), his group have found over 500 novel gene loci in over 50 disease areas. He has published over 800 research articles and is ranked as being in the top 1% of the world's most published scientists by Reuters.

His current work focuses on omics and the microbiome and directs the crowdfunded British Gut microbiome project. He is a prolific writer with several popular science books and a regular blog, focusing on genetics, epigenetics and most recently microbiome and diet (The Diet Myth). He is in demand as a public speaker and features regularly in the media.

Research interests: Genetic epidemiology; twin studies; chronic complex trait genetics; CVD; metabolic; ageing; locomotor

**Appointments:** He holds a prestigious European Research Council senior investigator award in epigenetics and is a NIHR Senior Investigator.





# Ben Franklin

Assistant Director, Research and Policy at International Longevity Centre

Ben Franklin leads the ILC-UK's work on the economic implications of population ageing. He has published numerous reports on pensions and savings, longer working lives, adult social care and the future of the UK welfare state. Ben has spoken at many high profile events and conferences, including the launch of the flagship Missing Million report with the Prince of Wales and at the recent Select Committee inquiry into Intergenerational Fairness.

Prior to ILC-UK, Ben worked as an Associate in the Financial Conduct Authority's Risk Department. In this role, Ben undertook economic analysis to support the organisation's shift to a more forward looking approach to regulating the financial services sector.

Before the FCA, Ben was Policy and Research Manager at the Chartered Insurance Institute where, amongst other things, he led a major research project called "Future Risk" to coincide with the Institute's centenary. And before all this, Ben spent a year working in the Financial Stability Unit of the Treasury as a researcher in the immediate aftermath of the banking crisis.



**Education and qualifications:** University of Essex, MA International Relations University of Essex, BA Politics.



# Narendra Patel

Chairman of the UK Stem Cell Oversight Committee, the UK Stem Cell Network and the National Patient Safety Agency of England and Wales. Council member of the Medical Research Council.

Narendra Patel, Baron Patel is a British obstetrician and cross bench peer, and a former Chancellor of the University of Dundee. Lord Patel joined the House of Lords in 1999 and proceeded to serve on the Science and Technology Committee (1999-2008), the Select Committee on Science and Technology Sub-Committee (1999-2005), the Committee on the Assisted Dying for the Terminally Ill Bill and the Procedure Committee. He is currently Chairman of the UK Stem Cell Oversight Committee, the UK Stem Cell Network and the National Patient Safety Agency of England and Wales. He is a council member of the Medical Research Council.

Prior to his career in the House, Lord Patel studied medicine and worked for more than thirty years at Dundee's Ninewells Hospital, becoming a consultant obstetrician in 1974. He has been a Fellow of the Royal College of Obstetricians and Gynaecologists since 1988. He has since served as Chairman of the Academy of Medical Royal Colleges of Scotland as well as the Academy of Medical Royal Colleges of the UK. He is the current President of Attend, a national charity that supports and expands the roles volunteers play in creating healthy communities, and a past President of the Royal College of Obstetricians and Gynaecologists.



**Education and qualifications:** Baron Patel studied Medicine at Queen's College, University of St Andrews, (now the University of Dundee) graduating in 1964.

**Appointments:** Patel received a knighthood in the 1997 Queen's Birthday Honours, and was created a life peer on 1 March 1999, as Baron Patel, of Dunkeld in Perth and Kinross. He has served as Vice-President of the All-Party Parliamentary Group on Maternity Services since 2002 and of the group on Infertility Services since 2003, as well as being Chairman of the Stem Cell Steering Committee since 2003. He has been a member of the Science and Technology committee since his elevation. On St Andrew's Day, 30 November 2009, Lord Patel was appointed to the Order of the Thistle by Queen Elizabeth II.



# Qing-Jun Meng

Chair of Division of Cell Matrix Biology & Regenerative Medicine (L5); Professor of Chronobiology and an Arthritis Research UK (ARUK) Senior Research Fellow in the Faculty of Biology, Medicine and Health, the University of Manchester.

Qing-Jun Meng is a Professor of Chronobiology and an Arthritis Research UK (ARUK) Senior Research Fellow in the Faculty of Biology, Medicine and Health, the University of Manchester. He is also the Academic Lead of the Biosciences International Summer School, BIO-SISS.

In 2009, Qing-Jun was awarded a MRC Career Development Award Fellowship on clocks and age-related diseases. In 2015, he was awarded an ARUK Senior Research Fellowship to continue his work into the roles of circadian clocks in health and disease of the musculoskeletal system. Qing-Jun's research profile has been featured on the MRC Insight magazine and the Arthritis Research UK website. He was recently interviewed by the BBC Radio Stoke, BBC Radio 5, BBC Radio Manchester and That's Manchester television.



**Education and qualifications:** Qing-Jun obtained his MD and PhD in China, followed by post-doctoral training at the University of Manchester on the molecular mechanisms and pharmacological resetting of the biological clocks.

## Appointments:

- Arthritis Research UK (ARUK) Senior Research Fellowship Award, 2015
- MRC Fellowship Partnership Award, 2013
- MRC Centenary Early Career Award, 2012
- FLS PIN Award (Promoting Interface Networking), 2011
- MRC Career Development Award, 2009
- Overall Best Presentation winner in the Faculty Research Symposium, 2009
- Awardee of Leonardo Da Vinci Programme (Workplace-within-Europe), 2005
- Awardee of Leonardo Da Vinci Programme (Workplace-within-Europe), 2003



# Ilora Gillian Finlay

President of the Chartered Society of Physiotherapy and Vice President of Marie Curie Cancer Care; Consultant for both Palliative Medicine and the Velindre Cancer Centre

Lady Llandaff is a doctor, professor of palliative medicine and active parliamentarian on health affairs. In the House of Lords, she has served on multiple Science and Technology Sub Committees and Select Committees, as well as a Committee on the Assisted Dying for the Terminally Ill Bill.

She also chairs the Welsh Medical and Dental Academic Advisory Board and the Palliative Care Strategy Implementation Board for Wales. She is president of the Chartered Society of Physiotherapy and Vice President of Marie Curie Cancer Care as well as a consultant for both Palliative Medicine and the Velindre Cancer Centre. Lady Finlay is a past president of the British Medical Association as well as the Royal Society of Medicine and remains a patron of both the Trussell Trust's foodbank network in Wales and the Motor Neurone Disease Association. It was Baroness Finlay who started the Marie Curie Hospice in Wales and the independent think tank Living and Dying Well. She also initiated iWantGreatCare, a dynamic patient feedback evaluation of health services across Wales. Prior to her political career, she was a GP in Glasgow before returning to Cardiff to work full-time in care of the terminally ill.



CHARTERED  
SOCIETY  
OF  
PHYSIOTHERAPY

**Education and qualifications:** Cardiff University; Department of Pharmacology, Radiology, Oncology & Palliative Medicine

**Appointments:** On 28 June 2001, she was made a life peer as Baroness Finlay of Llandaff, of Llandaff in the County of South Glamorgan. In March 2015, Finlay was awarded the Grassroot Diplomat Initiative Honouree for her vigorous champion to improving the care of dying patients



# Leslie Arnold Turnberg

Member of the House of Lords; Scientific adviser to the Association of Medical Research Charities

Lord Turnberg has been an active member of the House of Lords since earning his life peerage in 2001.

He has contributed to Joint Committees on the Draft Human Tissue and Embryos Bill and the Draft Mental Health Bill; the Committee on the Assisted Dying for the Terminally Ill Bill; and has served on numerous Committees on Science and Technology from 2001 to 2005.

In his professional life, Lord Turnberg was named President of the Association of Physicians, the Medical Protection Society and the Royal College of Physicians, as well as the Vice President of the Academy of Medical Sciences. He has acted as Chairman of the UK Forum on Genetics and Insurance, and the Board of the Public Health Laboratory Service, as well as a Trustee of Weizmann UK, Ovarian Cancer Action and the Wolfson Foundation.

Prior to his career in politics, Lord Turnberg was a Professor of medicine and eventually became Dean of the Medical faculty at the University of Manchester. He also provided his services as a consultant gastroenterologist at Hope Hospital and currently holds honorary fellowships from sixteen different UK and overseas colleges.



**Education and qualifications:** He studied medicine at Manchester University from 1952 to 1957, and completed his house posts in North Manchester hospitals, and trained at the Manchester Royal Infirmary and later in London at the Whittington Hospital and University College Hospital. He developed a specialist interest in gastroenterology, lecturing at the Royal Free Hospital at the liver unit developed by Sheila Sherlock.

**Appointments:** Turnberg received a knighthood in 1994 Birthday Honours for services to medicine, having the honour conferred by The Queen on 13 December 1994. On 4 May 2000 he was created a Life Peer by Letters Patent, taking the title Baron Turnberg, of Cheadle in the County of Cheshire.



# Dame Denise Platt

Chair of the Commission for Social Care Inspection.

Dame Denise Platt is the Chair of the Commission for Social Care Inspection.

Prior to this appointment in 2004, she was Chief Inspector, Social Services Inspectorate, and Director for Children, Older People and Social Care Services at the Department of Health of the United Kingdom.

She has held a variety of posts both nationally and locally, in local government and social care. These include Director of Social Services, London Borough of Hammersmith and Fulham, and Head of Social Services at the Local Government Association. She is a past President of the Association of Directors of Social Services, and was Chair of the National Institute for Social Work. She is also an honorary fellow of the Centre for Citizen Participation and a member of the University Court at Brunel University, a Trustee of the National Society for the Prevention of Cruelty to Children (NSPCC), a member of the National Executive Council of the fpa (Family Planning Association), a Governor of the University of Bedfordshire, Chair of the National AIDS Trust, and a member of the Independent Review Board of the Cheshire Fire & Rescue Services. She has completed a review of the 'Status of Social Care' for the Secretary of State for Health in April 2007.



**Education and qualifications:** Cardiff University / Prifysgol Caerdydd, B.Sc. Econ, Economics and Social Administration (1964 – 1967). She qualified in Medical social work in 1968.

**Appointments:** She is also an honorary fellow of the Centre for Citizen Participation at Brunel University, an honorary council member of the National Society for the Prevention of Cruelty to Children (NSPCC), a member of the National Executive Council of the Family Planning Association, a Governor of the University of Bedfordshire, Chair of the National AIDS Trust, a member of the Independent Review Board of the Cheshire Fire and Rescue Services and a Trustee of NSPCC. Her personal interests include love of art and of opera, especially Wagner's Ring Cycle.



# Philippa Whitford

SNP Health spokesperson in the House of CommonsK



Philippa Whitford is a Scottish National Party politician and surgeon. She was first elected as the Member of Parliament (MP) for Central Ayrshire in May 2015 and was re-elected at the 2017 general election. She is the SNP Health spokesperson in the House of Commons.

Whitford worked as a consultant breast surgeon at Crosshouse Hospital for more than eighteen years. Just after the First Gulf War and during the First Palestinian Intifada at the age of thirty, Whitford served for a year and a half as a medical volunteer in a UN hospital in Gaza. She spent the 2016 parliamentary recess travelling to the West Bank to operate on four women suffering from breast cancer, and visited the Gaza Strip to advise local hospitals on how to improve healthcare.

She has been a medical volunteer in a UN hospital in Gaza and also spent time in Southern Lebanon doing project planning for the charity Medical Aid for Palestinians. Upon returning to Scotland, she led the development of Scottish Breast Cancer standards to raise the quality of care across Scotland. Philippa is currently the Shadow SNP Westminster Group Leader for Health and has made championing the core principles of the NHS one of her central mandates. She has been a strong advocate for better teamwork and a more open approach to reporting incidents as well as better health standards and reducing the privatisation of health services.

**Education and qualifications:** She was educated at Wood Green: St. Angela's Providence Convent Secondary School in London and Douglas Academy in Milngavie, before studying at the University of Glasgow, where she graduated with medical degrees.

**Appointments:** Whitford was selected to contest Central Ayrshire for the SNP at the 2015 general election.



# Linda Partridge

Founding director of Max Planck Institute for Biology of Ageing in Cologne and Director of the UCL Institute of Healthy Ageing.

After three years of postdoctoral research at the University of York, she was Demonstrator, Lecturer, Reader and finally Professor at the University of Edinburgh. After many years in Scotland, in 1994 she became Professor of Biometry, University College London. She is both a founding director of the new Max Planck Institute for Biology of Ageing in Cologne and Director of the UCL Institute of Healthy Ageing.

Linda Partridge's research is directed to understanding both how the rate of ageing evolves in nature and the mechanisms by which healthy lifespan can be extended in laboratory model organisms. Her work has focussed in particular on the role of nutrient-sensing pathways, such as the insulin/insulin-like growth factor signalling pathway, and on dietary restriction. Her current work is directed to developing pharmacological treatments that ameliorate the human ageing process to produce a broad-spectrum improvement in health during ageing. She is the recipient of numerous awards, including a DBE for services to science. She is founding director of the new Max Planck Institute for Biology of Ageing in Cologne as well as the Director of the UCL Institute of Healthy Ageing.



**Education and qualifications:** Linda Partridge studied and graduated in biology at the University of Oxford.

**Appointments:** She was elected to the Academy of Medical Sciences in 2004, and was awarded the Linnean Society of London's prestigious Darwin-Wallace Medal in 2008. In 2009, she was appointed Dame Commander of the Order of the British Empire (DBE), while also receiving the Croonian lectureship from the Royal Society. In March 2009, the UKRC announced Dame Linda as one of six Women of Outstanding Achievement in Science, Engineering and Technology. She was awarded with Foreign Honorary Membership from the American Academy of Arts and Sciences in 2010. She has been awarded Honorary Degrees (DSc) from the University of Bath in 2011, the University of Oxford, the University of Brighton, Imperial College London and the University of Kent.





# David Kipling

Professor at Cardiff University, Co-chair: CASciOPe: Cardiff Ageing Science and Older People network

Kipling is a Non-Clinical scientist, originally trained as a Zoologist at Cambridge University before doing a DPhil in the Zoology Department at Oxford University on DNA replication in yeast. He then moved to the MRC Human Genetics Unit in Edinburgh where he worked as a postdoctoral lab scientist on various aspects of chromosome biology, especially telomeres and centromeres. He moved to Cardiff to study the role of telomeres in cell division counting, as relevant to both ageing and cancer.

Kipling is very active at a strategic level in the UK with regard to ageing research, in particular with BBSRC, the Babraham Institute, and the British Society for Research on Ageing. His own career has been via the route of gaining personal Fellowship awards (Beit and then Lister Institute of Preventive Medicine) and he has had interest in issues surrounding career structure and progression in biomedical research, including the competing demands of research and teaching/clinical practice.



## Education and qualifications:

- University of Oxford, Zoology, 1986 – 1989
- University of Cambridge, BA, Natural Sciences, 1983 – 1986



# Paul Keith Potter

Mammalian Genetics Unit, MRC Harwell · Disease Model Discovery

Diseases associated with ageing pose an increasing social and financial burden on society and represent a vital imperative for biomedical research. We are undertaking the first large-scale project to investigate the interaction between genetic variation and the pleiotropic effects of ageing. The emphasis will be on the exploration of the phenotype space in ageing mouse mutant populations providing us with the opportunity to: identify genes and pathways involved in age related disease.

- MRC Harwell, Mammalian Genetics Unit Oxfordshire, United Kingdom, Position: Group Leader (2010- present)
- MRC Harwell, Mary Lyon Centre Oxford, United Kingdom, Position: Head of Mutagenesis (Nov 2007 - Sep 2010)
- MRC Harwell, Mary Lyon Centre Oxfordshire, United Kingdom, Position: Deputy Scientific Manager (Nov 2006 - Oct 2007)
- Imperial College London, Department of Medicine London, United Kingdom, Position: Research Associate (Oct 1999 - Oct 2006)

MRC

Mammalian  
Genetics Unit

## Education and qualifications:

- Royal Postgraduate Medical School; Immunology (1989 - 1994)
- Imperial College London, Biochemistry (1984 - 1987)

## Appointments:

- Honorary Senior Lecturer, Renal Unit Imperial College (Aug 2012)
- Honorary Senior Lectureship, Kennedy Institute of Rheumatology, Imperial College (Aug 2009)



# Rabbi Julia Babette Sarah Neuberger

Board Member of VHI Ireland, Chair of the Review Liverpool Care Pathway and a Vice President of Dimbleby Cancer Care.

Baroness Neuberger is a member of the British House of Lords. She formerly took the Liberal Democrat whip, but resigned from the party and joined the Crossbenches in September 2011 upon becoming the full-time senior rabbi to the West London Synagogue. Having gained her life peerage in 2004, Lady Neuberger served as a Liberal Democrat Health spokesperson from 2004 to 2007. She was then appointed as the government's champion of volunteering and proceeded to serve on a number of Science and Technology Committees and Sub-Committees from 2007 to 2012; the Draft Human Tissue and Embryos Bill Joint Committee in 2007; and a Sub-Committee on Social Policies and Consumer Protection from 2005 to 2008. Beyond politics, Lady Neuberger has held various positions in the public and voluntary sectors.

These include Chair of the Camden and Islington Community Health Services NHS; Vice President of the Patient's Association; Chair of the Commission on the Future of Volunteering; Chief Executive of the King's Fund; and Member of both the Medical Research Council and the General Medical Council. She is still a Board Member of VHI Ireland, Chair of the Review Liverpool Care Pathway and a Vice President of Dimbleby Cancer Care.

Lady Neuberger has also found time to establish herself as a respected author on subjects including decision-making in the NHS, ethics in healthcare and morality in healthcare.



**Education and qualifications:** She attended South Hampstead High School and Newnham College, Cambridge, where she studied Assyriology at first. After she was refused entry to Turkey because she was British and to Iraq, because she was Jewish, she had to change her subject and started studying Hebrew, her subsidiary language, full-time. Her lecturer at Cambridge, Nicholas de Lange, suggested she should become a rabbi. She obtained her rabbinic diploma at Leo Baeck College, London, where she taught from 1977–97.



# John Speakman

Head of Integrative Physiology at the University of Aberdeen, 1000 talents 'A' professor at Chinese Academy of Sciences

John Speakman is a British biologist working at the University of Aberdeen, Institute of Biological and Environmental Sciences, for which he was Director from 2007 to 2011. He leads the University's Energetics Research Group, which is one of the world's leading groups using doubly labeled water (DLW) to investigate energy expenditure and balance in animals.

Speakman is well known for his work on obesity, in particular for criticising a long-established theory for obesity known as the thrifty gene hypothesis. With Aberdeen colleague Ela Krol, among others, he has published a series of over 20 papers in the Journal of Experimental Biology, known as the 'limits' series, which culminated in a novel hypothesis that animal energy expenditure is limited by the capacity to dissipate body heat.

He was the first non-Chinese recipient of a 'Great wall' professorship from the CAS-Novonordisk Foundation (2011) and in 2015 was the first Briton ever to be awarded the Chinese Academy of Sciences medal for International cooperation.

Speakman writes a monthly popular science column for the magazine 'Newton' (translated into Chinese by an ex-student Lina Zhang) and has also published two popular science books consisting of the compiled English versions of these articles.



## Education and qualifications:

- The University of Stirling, Doctor of Science, Animal Energy Balance, 2009
- University of Aberdeen, Doctor of Science, Animal energetics, 1997
- The University of Stirling, Doctor of Philosophy (PhD) Animal energetics, 1980 – 1984
- The University of Stirling, Bachelor of Science (BSc) in Biology and Psychology, 1976 – 1980

**Appointments:** He was awarded Doctor of Science (DSc) degrees by both the University of Aberdeen (1996) and University of Stirling (2009). In 2016 he received a Royal Society Wolfson Research Merit Award from the Royal Society of London.



# Suzanne Wait

Research Fellow at the School of Public Policy, University College London. Advisor at the International Longevity Centre-UK

Suzanne Wait, PhD is a Managing Director of The Health Policy Partnership. Over the past 15 years, she has helped run a number of multi-stakeholder policy initiatives, covering topics such as hepatitis, diabetes, immuno-oncology, stroke prevention and cardiovascular disease. The challenge of inter-sectoral and multidisciplinary working has been a focal thread across all her work, as well as the need for sustainable and patient-focused healthcare systems.

Suzanne Wait was Director of Research at the ILC-UK as from January 2004 until December 2007. She is a Research Fellow at the School of Public Policy, University College London, and runs a consultancy (SHW Health) which provides health policy and health outcomes advice to private and public sector clients. Her past experience include roles in consulting, policy advice, teaching, and outcomes research within the pharmaceutical industry in Europe and internationally.

She is currently an Advisor, at the International Longevity Centre-UK (ILC-UK), a London-based registered charity, and was a founding member and trustee of European Nutrition for Health Alliance, a non-profit collaboration aimed at raising awareness of malnutrition in Europe. She is a Member of the Coalition to Eradicate Viral Hepatitis in Asia Pacific (CEVHAP).



**Education and qualifications:** Suzanne has a Master's of Public Health from Columbia University and a PhD in Public Health from the University of Strasbourg.



# Jon Date

Head of External Affairs at International Longevity Centre - UK

Jon has managed a number of successful campaigns that have mobilized tens of thousands of supporters and influenced politicians, regulators and businesses. His role involves planning campaign strategies, engaging with MPs, regulators and other stakeholders, and managing the delivery of campaigns through working with others across the organisation.



**Education and qualifications:** University of Oxford BA (Hons) - 2.1 Philosophy, Politics and Economics.



**Warwick**  
Medical School

# Paul Thornalley

Professor of Protein Damage and Systems Biology at University of Warwick

Paul Thornalley is a biomedical researcher and research team leader working in translational medicine, diet and health, development of functional foods and pharmaceuticals and systems biology. He leads research on the formation of the reactive dicarbonyl metabolite methylglyoxal and its metabolism by the glyoxalase system in human health and disease.

Accumulation of methylglyoxal – dicarbonyl stress – is a new type of metabolic imbalance that is providing improved understanding of disease, health decline in ageing and new routes to treatment. The key enzyme of this system, glyoxalase 1 (Glo1), is now a target for Glo1 inducer development as active agents of functional foods for healthy ageing – particularly to counter development of diabetes, obesity and cardiovascular disease, and pharmaceuticals for treatment of vascular complications of diabetes – particularly diabetic renal disease, renal failure, neurological disorders and other disease. Glo1 inhibition is a strategy for development of novel antitumour agents. Increased Glo1 copy number occurs in refractory tumours is associated with multidrug resistance (MDR) and sensitivity to Glo1 inhibitors. Glo1 inhibitor therapy would likely active particularly against MDR breast cancer and lung cancer. I have experience in cellular, pre-clinical and clinical studies. I lead a multidisciplinary team of biomedical and clinical investigators.

Paul Thornalley has published 260 peer-reviewed articles and 190 conference papers with h-factor 63. He collaborates with leading experts in biomedical research worldwide and partners in the food and pharmaceutical industries.

## Education and qualifications:

- University of Oxford, DPhil Biochemistry (1979 – 1982)
- The University of Manchester, BSc Chemistry (1976 – 1979)



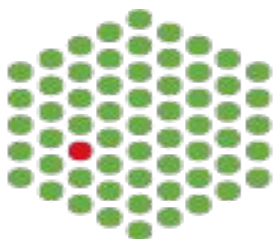
# Janet Thornton

Director Emeritus of EMBL-EBI and Senior Scientist

Professor Dame Janet Thornton was Director of EMBL-EBI from October 2001 to June 2015, and played a key role in ELIXIR, the pan-European infrastructure for biological data, since its inception. Her research group focuses on understanding protein structure, function and evolution using computational approaches. Professor Thornton is a Fellow of the Royal Society, a Fellow of the Academy of Medical Sciences, a member of EMBO and a foreign associate of the US National Academy of Sciences.

Thornton was Director of the European Bioinformatics Institute (EBI) from 2001 to 2015, on the Wellcome Trust Genome Campus at Hinxton near Cambridge. She was an organiser of the Intelligent Systems for Molecular Biology (ISMB) and European Conference on Computational Biology (ECCB) joint Conference in Glasgow in 2004.

Thornton's work is highly interdisciplinary, interfacing with structural biology, bioinformatics, biological chemistry and chemoinformatics, amongst others. She was an early pioneer in structure validation for protein crystallography, developing the widely used ProCheck software. Together with Christine Orengo, she introduced the CATH classification of protein structure.



**Education and qualifications:** After a physics degree from the University of Nottingham, she completed her PhD at the UK NIMR before post doctoral studies at Oxford. She then held a joint appointment at University College London and the Bernal Chair in the Crystallography Department at Birkbeck College.

**Appointments:** Thornton was elected Fellow of the Royal Society (FRS) in 1999. She became a member of the European Molecular Biology Organisation (EMBO) in 2000, a foreign associate of the US National Academy of Sciences in 2003, and a Fellow of the Academy of Medical Sciences (FMedSci) in 2014. Thornton is an Supernumerary Fellow of Churchill College, Cambridge. She was furthermore made an Honorary Fellow of the Royal Society of Chemistry (HonFRSC) in 2017. The Times named Thornton number 86 of their "Eureka 100" British scientists in 2010.





# Manlio Vinciguerra

University College London, Division of Medicine, Faculty Member. Founder and CSO of P4LifeTech

Manlio Vinciguerra is a Principal Investigator at the International Clinical Research Center (ICRC), Brno, Czech Republic.

Previously he held a position of Senior Lecturer at the Institute for Liver and Digestive Health at the University College London (UCL), London, United Kingdom. Vinciguerra unraveled important cellular signaling and epigenetics mechanisms involved in metabolic and infectious processes, stress and aging in the heart and in the liver, such as PI3K/AKT/mTOR pathway and sirtuins, using a systems biology approach in cells and rodent models.

He is a member of Who's Who in Gerontology. Principal Investigator in epigenetics, nutrition and gastroenterology. He is the founder and CSO of P4LifeTech



**Education and qualifications:** He received his PhD in Internal Medicine (2004) and research training at the University of Geneva, Switzerland, and at the European Molecular Biology Laboratory (EMBL), in Italy and in Germany (2005-2011). He obtained a degree in Biomolecular Sciences from the University of Catania, Italy, in 1999.



# Thomas von Zglinicki

Professor of Cellular Gerontology. Deputy Director: Science, Newcastle Institute for Ageing.

Thomas von Zglinicki is a founding member of the basic biology branch of the Newcastle Ageing Institute and its present scientific director. His principal research interest is in understanding the cellular and molecular signaling pathways connecting DNA damage responses (specifically emanating from dysfunctional telomeres) with mitochondrial function and metabolism, thus causing and maintaining cell senescence, and how these contribute to organism ageing.

He was the first to discover oxidative stress and resulting DNA damage as a major cause of telomere shortening and to propose telomere length as a biomarker of ageing in humans. He chairs the Scientific Advisory Board (SAB) of the Leibniz Institute for Environmental Medicine Dusseldorf (Germany) and is a member of the Mayo Clinic Robert and Arlene Kogod Center on Aging SAB. He published over 200 papers on cell and molecular biology of ageing, resulting in an h-index of 50.

Professor von Zglinicki came to Newcastle University in 2000 because it had shown the foresight to develop excellent research facilities for studying the biology of ageing that he was unable to find at that time in his native Germany. His work has since made a big contribution to the University's growing global reputation across the whole ageing agenda.



**Appointments:** He is a Trustee of the Seneca Award for Ageing Research of the Industry Club Dusseldorf and serve on the editorial boards of Aging Cell, Aging (Albany) and other journals in the field.



# William Bains

CSO/Founder at Five Alarm Bio Ltd. Researcher in Cambridge

Five Alarm  
Bio

 UNIVERSITY OF  
CAMBRIDGE

William is an academic and entrepreneur. After an academic career in UK and the USA, he joined PA Consulting Group in 1988, and Merlin Ventures in 1996. In 1999 William founded Amedis Pharmaceuticals Ltd, (which was later acquired by Paradigm Therapeutics).

He has founded four other biotech companies, has helped create over 10 others, helping to raise over £60M in early stage funding for UK biotech start-ups, as well as sitting on the Advisory Boards of the SULIS Fund, Icen Fund and Bath Ventures. William also runs Rufus Scientific, helping entrepreneurs, Universities and start-ups identify how to generate value from visionary science and technology.

William continues to be engaged in research at MIT, where he is a visiting scientist researching astrobiology, and as founder and CSO of Five Alarm Bio Ltd..

He is author of over 100 papers on subjects as diverse as drug chemistry, company law and extraterrestrial life, and four books, including Venture Capital and the European Biotechnology Industry (2008), and teaches company creation and entrepreneurship in postgraduate courses at Cambridge University and the University of Warwick.

**Education and qualifications:** University of Oxford. MA Biochemistry (1975 – 1979).



# Richard Barker

Director of the Centre for the Advancement of Sustainable Medical Innovation (CASMI)

Dr. Barker was formerly Director General of the Association of the British Pharmaceutical Industry (ABPI), a pharmaceutical industry trade association in the United Kingdom, from 2004 to 2011, and served on the Board and Executive Committee of the European Federation of Pharmaceutical Industries and Associations (EFPIA) and as a Council Member of the International Federation of Pharmaceutical Manufacturers & Associations (IFPMA).



Dr. Barker is currently director of the Centre for Accelerating Medical Innovations, a member of the Board of iCO Therapeutics, Inc., a Canadian biotech company, Chairman of Stem Cells for Safer Medicine, a public-private partnership using technology to improve drug safety, Founder and Chairman of the Athenaeum Group, an organization devoted to more effective and efficient pharmaceutical research and development among clinicians, industry leaders and regulators, as well as a senior advisor of Aegate, Ltd., an authentication and traceability service for the pharmaceutical industry.

As an experienced healthcare leader and strategist with a distinguished career in the healthcare sector, Dr. Barker brings to his service as a director more than 20 years' experience in the healthcare industry in which he held a range of senior leadership roles in the United States, the United Kingdom and elsewhere internationally. His career has spanned the pharmaceutical, biotechnology and medical informatics sectors, thus giving him a broad perspective on the issues facing both healthcare systems and the pharmaceutical industry.



# Richard Faragher

Professor of Biogerontology at the University of Brighton

Richard Faragher is Professor of Biogerontology at the University of Brighton and is past Chair of both the British Society for Research on Ageing and the International Association of Biomedical Gerontology. He is the first British citizen to be elected to the Board of Directors of the American Federation for Aging Research (AFAR), the leading US non-profit organisation supporting and advancing healthy aging through biomedical research.

His primary research interest is in uncovering the causal mechanisms driving the human ageing process and in translating that knowledge into effective interventions which will improve the wellbeing of older people. His particular interest is the phenotype of “senescent” cells. These are cells which can no longer divide, frequently as a result of tissue turnover through life, and which accumulate in mammalian tissue. It has been shown that the deletion of these cells in animal models improves multiple markers of health, opening radical prospects for the improvement of human health in the future.



**Education and qualifications:** Biochemistry at Imperial College, London. PhD at the University of Sussex. He joined the University of Brighton in 1994 as a postdoctoral researcher looking at the growth and adhesion of cells to novel biomaterials.

**Appointments:** In July 2016, Richard received the highest honour of the British Society for Research on Ageing (BSRA) - the Lord Cohen of Birkenhead Medal for services to gerontology. The BSRA is the oldest scientific society in the world devoted to researching the biology of ageing.



# Robert Freitas

Senior Research Fellow, Institute for Molecular Manufacturing

Robert A. Freitas Jr. published the first detailed technical design study of a medical nanorobot ever published in a peer-reviewed mainstream biomedical journal and is the author of *Nanomedicine*, the first book-length technical discussion of the medical applications of nanotechnology and medical nanorobotics.

Volume I was published in October 1999 by Landes Bioscience while Freitas was a Research Fellow at the Institute for Molecular Manufacturing (IMM) in Palo Alto, California. Freitas published Volume IIA in October 2003 with Landes Bioscience while serving as a Research Scientist at Zyvex Corp., a nanotechnology company headquartered in Richardson, Texas during 2000-2004.

Freitas is now completing *Nanomedicine* Volumes IIB and III and is also consulting on diamond mechanosynthesis, molecular assembler design, and nanofactory implementation as Senior Research Fellow at IMM. Freitas created the sentience quotient (SQ) concept in 1977-78 as a way to describe the information processing rate in living organisms or computers.



**Education and qualifications:** Freitas holds a 1974 Bachelor's degree majoring in both physics and psychology from Harvey Mudd College, and a 1978 Juris Doctor (J.D.) degree from Santa Clara University School of Law.

**Appointments:** He won the 2009 Feynman Prize in nanotechnology for theory, the 2007 Foresight Prize in Communication, and the 2006 Guardian Award from Lifeboat Foundation, and was awarded the first patent on diamond mechanosynthesis on 30 March 2010.



# David Gems

Assistant Director of the Institute of Healthy Ageing. Professor of Biology of Ageing at University College London

Professor David Gems is a British geneticist and biogerontologist. He is Professor of Biology of Ageing at University College London where he is also Deputy Director of the Institute of Healthy Ageing.

His work concerns understanding aging through the genetics of *C. elegans*. is the Assistant Director of the Institute of Healthy Ageing within which his own laboratory studies ageing using the model organism *c.elegans*.



**Education and qualifications:** Gems went to the University of Sussex, graduating in 1983 with a BSc in Biochemistry. After graduation in 198, Gems pursued various work in Costa Rica, Nicaragua, Mexico and USA. It is alleged that during his time in Nicaragua, Gems associated with the Sandinista National Liberation Front.

## Background:

- 2012- Professor of Biogerontology, Institute of Healthy Ageing, UCL
- 2005-2011 Reader in the Biology of Ageing, Department of Biology, UCL
- 1997-2004 Royal Society University Research Fellow, Department of Biology, University College London, U.K. Genetics of aging in *C. elegans* and other model organisms
- 1993-1996 Postdoctoral fellow, Molecular Biology Program, University of Missouri, with Prof. Don Riddle. Genetics of aging in *Caenorhabditis elegans*
- 1991-1993 Postdoc, Department of Biology, Imperial College, London, with Prof. Rick Maizels. Biology of infective larvae of the ascaris nematode parasite *Toxocara canis*
- 1987-1990 Ph.D., Institute of Genetics, University of Glasgow, U.K. *Aspergillus nidulans* genetics. With A.J. Clutterbuck
- 1984-1986 Various work in Costa Rica, Nicaragua (Sandinista regime), Mexico, USA
- 1980-1983 School of Biological Sciences, University of Sussex, U.K. B.Sc. Biochemistry
- 1974-1978 Dartington Hall School



METABOLIC INTELLIGENCE

# Andrew Krentz

Chief Medical Officer & Founding Director at Metabolic Intelligence

Dr. Krentz is the author of a number of well-received textbooks on diabetes and vascular medicine and has published more than 150 original articles, reviews, editorials, and book chapters. Currently he is an associate editor for *Diabetic Medicine* (the official journal of Diabetes UK) and has served on editorial boards of the *British Journal of Diabetes & Vascular Disease*; *Diabetes & Vascular Disease Research*; *Diabetes, Obesity & Metabolism*; *Drugs*; *Drugs & Aging* and *Treatments in Endocrinology*.

Dr. Krentz's expertise in metabolic and vascular medicine is reflected by his membership of several prominent national and international scientific societies. In the UK he is a council member of the Lipids, Metabolism & Vascular Disease Section of the Royal Society of Medicine. He is an elected member of the British Hypertension Society and is accredited as a clinical specialist in hypertension by the European Society for Hypertension. He is also a member of the European Group for the study of Insulin Resistance and the Diabetes and Cardiovascular Disease Study Group of the European Association for the Study of Diabetes.

Dr. Krentz trained in metabolic medicine at leading academic institutions in the UK and US. He pursued his clinical academic career as Consultant Physician in Diabetes and Endocrinology at Southampton University Hospitals and Honorary Senior Lecturer at the University of Southampton before returning to the US to take up a British Heart Foundation International Research Fellowship at the University of California San Diego.

**Education and qualifications:** After obtaining his MD thesis *Metabolic Studies in Insulin Resistance* from the University of Birmingham he expanded his research repertoire at the New Mexico School of Medicine in Albuquerque.





# Aisling Burnand

Chief executive of the Association of Medical Research Charities

Aisling Burnand has been the chief executive of the AMRC since September 2014.

Aisling began her career in communications, working mostly in the private sector. She headed international media relations for Rhône-Poulenc and was a director at the Rowland Company. She joined the BioIndustry Association (BIA) as its first director of public affairs in 1998, before becoming chief executive in 2003. At the BIA she championed UK biosciences, leading on issues including regenerative medicine and animals in research. In 2007 Aisling received an MBE for services to science.

In 2009 Aisling joined Cancer Research UK, where she was executive director of policy and public affairs. During her tenure the charity secured the implementation of point of sale legislation preventing children from viewing cigarettes in shops, and the Sunbeds Act to protect young people from the dangers of sunbeds.

Since 2012 Aisling has run DNA Coaching providing support for senior leaders in business and the not for profit sector.

She is a Trustee of LifeArc, has been a Trustee of Campaign for the Advancement of Science and Engineering (CaSE) (2011- 2017) and is currently a member of: the UK Clinical Research Collaborative (UKCRC), Research Advisory Group to NHS Digital, OSCHR Sub board on Bioinformatics, Life Science Industry Strategy Board, Brexit Health Alliance, and the Brain Tumour Charity Patient Mandate group.

In 2007 Aisling received an MBE for services to science.



**Education and qualifications:** School Governor, St Joan of Arc School, Highbury, London Trustee, Advancement of Science and Engineering (CaSE), Science and Technology.



# João Pedro de Magalhães

Senior Lecturer, University of Liverpool  
Principal Investigator, Integrative Genomics of Ageing Group



Joao Pedro de Magalhães joined the Ageing and Stress Group at the University of Namur in Belgium. With Olivier Toussaint as his advisor, Magalhaes' work from 1999 to 2004 spanned molecular mechanisms of cellular senescence and responses to oxidative stress, evolutionary models of ageing, and analyses of gene networks.

He then did a postdoc from 2004 to 2008 with George Church at Harvard Medical School. In this role with Church, Magalhaes helped develop high-throughput approaches for studying ageing, including computational tools and databases, statistical models of mortality, methods for cell-based RNAi screens, and comparative genomics methods for investigating the evolution of longevity.

In 2008, Magalhaes joined the University of Liverpool to develop his own group on genomic approaches to ageing. The group was initially in the School of Biological Sciences (which later became the Institute of Integrative Biology), and is now in the Institute of Ageing and Chronic Disease.

Among his many longevity-related scientific research projects, Magalhães has sequenced and analyzed the genome of the bowhead whale. And he has also contributed to analysis of the genome of the naked mole rat. Both of these mammals are exceptionally long-lived and exceptionally cancer-resistant.

Joao Pedro de Magalhães is also an affiliate Principal Investigator in the Neuroendocrinology and Aging Group at the University of Coimbra in Portugal.

**Education and qualifications:** In 1999, he obtained his degree in Microbiology from Escola Superior de Biotecnologia. Under Olivier Toussaint, he obtained his PhD from the University of Namur in 2004.



# Anne McArdle

Head of the Department of Musculoskeletal Biology II, University of Liverpool

Anne was appointed as Lecturer at the University of Liverpool in 2001 and as Professor in the Faculty of Health and Life Sciences at the University of Liverpool in 2007. She is currently acting Head of the Department of Musculoskeletal Biology II.

Anne is past Chair of the British Society for Research on Ageing and the British Council for Ageing. She is an active member of the American Physiological Society and the UK Physiological Society and Biochemical Society. Professor McArdle is Associate Editor for the American Journal of Physiology, International Advisor on the Environmental & Exercise Physiology Committee of the American Physiological Society and a core member of BBSRC Grant Committee A. Professor McArdle's work on frailty has received considerable public interest with press releases and presentation of our applied work to the general public at several events. As School Director of Postgraduate Research, Anne led a complete overhaul of student monitoring and support procedures within the School which has led to substantial improvements in the student experience. Professor McArdle's research interests include the basic processes by which cells respond and adapt to stress and damage and in particular, the role that the age-related failure in the stress response plays in the development of age-related skeletal muscle dysfunction and has made key observations in this area of research. Her research group has demonstrated the importance of rapid induction of responses to the increased ROS generated by contractions in maintaining muscle viability and the role that attenuation of these ROS signals and responses play in muscle ageing. Anne has considerable experience of cell and molecular biological studies at the subcellular level through to physiological analysis of muscle function in a number of model systems including cell culture, animal models and in humans.



**Education and qualifications:** Professor McArdle graduated with a BSc (Hons) in Biochemistry from the University of Liverpool in 1988 and completed a PhD in the Department of Medicine in 1993.

**Appointments:** Anne undertook postdoctoral training at the Institute of Gerontology at the University of Michigan and was awarded a Research into Ageing Queen Elizabeth the Queen Mother Fellowship in 1998 to examine the mechanisms by which the age-related failure of muscle to adapt to contractions resulted in sarcopenia.



# Cleo Bishop

Senior Lecturer and Director for Graduate Studies at Queen Mary, University of London

Cleo received a PhD in Biological Sciences in 2001 from University College London. She then spent four years as a Career Development Fellow in the laboratory of Prof. Chris Higgins at the MRC Clinical Sciences Centre, Imperial College London, where she developed a keen interest in cancer biology.

In 2006, she moved to the Blizard Institute to pursue this, spending four years in Prof. David Beach's group. During this time, she established our High-Throughput Screening facility, managed by Dr Luke Gammon, and has used this technology to discover novel regulators of the tumour suppressor p16.

In 2010, Cleo was awarded a Lectureship and continues her research into the regulation of the p16 and its role in senescence, cancer and ageing.





# Dr Richard Siow

Vice-Dean International, Faculty of Life Science and Medicine at King's College London

Dr Siow is the Coordinator and Committee Chair of Ageing Research at King's (ARK), a cross-Faculty consortium of researchers taking a multidisciplinary approach to better understand the mechanisms of ageing and related diseases to improve health-span, clinical translation and the social impact of ageing.

The primary purpose of ARK is to enhance multidisciplinary research collaborations within King's to better understand the mechanisms of ageing and improving health-span. ARK is uniquely positioned to address the challenges of an ageing world, and to provide answers at multiple levels, from cellular mechanisms to social sciences.

Richard is a graduate of King's (BSc and PhD) and joined the Physiology Department as a Lecturer in 2001. Richard has championed the Partnership between King's and Unilever through his research collaborations with their global R&D Centres in UK, Netherlands, USA, India and China. He is engaged in King's international partnership activity including with academic institutions and industry in Germany, USA, India, China, Singapore and Taiwan. Richard has also established the King's India Summer Session at Unilever Bangalore, a unique international academic-industry educational initiative.



**Education and qualifications:** King's College London, BSc, PhD Nutrition, Cardiovascular Physiology (1990 – 1996).



# Prof. Sir John Pattison

Formerly Director of Research and Development at the Department of Health in England

Formerly Director of Research and Development at the Department of Health in England, who is well placed to assess the health services' ability to deliver the changes emerging from health research findings.

Between 1975 and 1977, he was Senior Lecturer in Virology at London Hospital Medical College at St. Bartholomew's Medical School; and from 1977 to 1984 Professor of Medical Microbiology at King's College Hospital Medical School. Since 1984 he has been Professor of Medical Microbiology at University College London, Dean of UCL Medical School (1990-1998) and is at present Vice-Provost of UCL. From 1992-1995 he was Chairman of the Physiological Medicine and Infection Board and a member of the Medical Research Council.

He was a member of the Board of the Public Health Laboratory Service (1989-1995) and editor-in-chief of *Epidemiology and Infection* (1980-1994). He is currently Deputy Chairman of the King's Fund Management Committee, Chairman of the Spongiform Encephalopathy Advisory Committee and senior medical advisor to the Medical Research Council.

Sir John's own research interests have been concerned with aspects of medical virology, particularly rubella virus infection and original work on the identity and consequences of infection with the human parvovirus B19.



Department  
of Health

**Education and qualifications:** Professor Sir John Pattison was educated at Barnard Castle School, the University of Oxford and the (then) Middlesex Hospital Medical School.



# Maggie Throup

Chair of the All-Party Parliamentary Group (APPG) on Obesity, Heart Disease, and the secretary for the APPG on Human Trafficking and Modern Slavery.

Maggie Throup is a British Conservative Party politician. A former biomedical scientist, she was first elected as the Member of Parliament (MP) for Erewash in the 2015 general election. She was re-elected in the 2017 general election.

After graduating she worked as a biomedical scientist at the Calderdale Health Authority for seven years. During her time there, she became a Fellow of the Institute of Biomedical Science specialising in haematology. She then pursued a career in marketing and public relations which included a directorship of a pharmaceutical company and running her own consultancy.

She was employed as a director in the In-Vitro Diagnostics Division of a pharmaceutical company for ten years. She also has 19 years of experience as a business consultant, mainly in marketing based on quantitative and qualitative market research, and has run her own successful marketing consultancy since 1996.

In addition to her professional successes, Throup has contributed to overseas development in Rwanda and held voluntary non-executive roles with Solihull-based charities, including Changes UK. She is a trustee of the Carers Centre as well as Drug Rehabilitation CIC, which she also chairs.



**Education and qualifications:** Her early education was at the Bradford Girls' Grammar School. She graduated from the University of Manchester with a BSc. in Biology.

**Appointments:** In the 2015–17 parliament, she was part of the Health Select Committee and the Scottish Affairs Committee. Throup was re-elected onto the Health Select Committee. She is the chair of the All-Party Parliamentary Group (APPG) on Obesity, Heart Disease, and the secretary for the APPG on Human Trafficking and Modern Slavery.



# Peter Adams

Epigenetics of Cancer and Ageing at University of Glasgow / Beatson Associate

Dr. Adams most recently led the Epigenetics Unit at the Beatson Institute for Cancer Research and the University of Glasgow, Institute of Cancer Sciences, in Scotland. He has also held positions at Wistar Institute (University of Pennsylvania), Drexel University and Fox Chase Cancer Center in Philadelphia.



University  
of Glasgow

Peter D. Adams obtained his BA in biochemistry at the University of Oxford, England and his Ph.D. at Imperial Cancer Research Fund (now CR-UK). He did postdoctoral work with Dr. William G. Kaelin, Jr. at Dana-Farber Cancer Institute. Peter D. Adams is co-Editor-in-Chief of the journal *Aging Cell*.

The Adams lab investigates the impact of chromatin structure and epigenetics on cell proliferation, aging and cancer.

## Education and qualifications:

- 1993 Ph.D., Signal Transduction, Imperial Cancer Research Fund (CRUK), London, UK
- 1989 B.A., Biochemistry, Oxford University, England





# Janet M. Lord

Director of the Institute of Inflammation and Ageing

Janet's research focuses on the innate immune system, the body's front line defense against infection, and how the efficiency of this system is affected by ageing and stress, the latter including physical trauma and emotional stress such as bereavement.

She is also interested in how the ageing of the immune system predisposes adults to chronic inflammatory diseases such as Rheumatoid Arthritis and COPD and the muscle wasting associated with age and these conditions.

She researches the link between chronic systemic inflammation and physical frailty in old age and has published papers showing that much of the increased systemic inflammation and sarcopenia associated with ageing can be prevented by high levels of physical activity in adulthood.

In all of her work she aims to translate research findings into interventions, whether lifestyle (exercise, diet) or pharmacological, to improve immunity and health in old age. Professor Lord is also a leading member of the NIHR SRMRC, researching the impact of major trauma on the immune system and how this differs with age. Janet has published over 175 research papers and reviews in the fields of immune senescence, chronic inflammatory disease and neuroendocrine-immune biology. Her research is currently funded by grants from MRC, Arthritis Research UK, NIHR, The Healing Foundation, the European Commission and the Glenn Foundation.



## Education and qualifications:

- Professor of Immune Cell Biology
- Fellow of the Academy of Medical Sciences 2015
- PhD Biological Sciences 1983
- BSc (Hons) Human Biology 1979

**Appointments:** In 2013 she was awarded the Lord Cohen of Birkenhead medal for her outstanding research in human ageing by the British Society for Research in to Ageing. She was elected a Fellow of the Academy of Medical Sciences in 2015.



# Prof. Sir Colin Blakemore

Professor of Neuroscience & Philosophy at the University of London

Emeritus Professor at Oxford and former Chief Executive of the Medical Research Council, brings knowledge of the biological basis of ageing and of trends in medical research and practice that are likely to influence life expectancy. Taught in Cambridge (at the Physiological Laboratory and Downing College) for 11 years. Moved to Oxford in October 1979 to take up the Waynflete Chair of Physiology and a Professorial Fellowship at Magdalen. Held those positions until July 2007. From 1990-96 directed the McDonnell-Pew Centre for Cognitive Neuroscience and from 1996-2003 the Oxford Centre for Cognitive Neuroscience. Between 2003 and 2007 he was on Special Leave, serving as Chief Executive of the Medical Research Council and from 2007-12, he was Professor of Neuroscience in the University and a Supernumerary Fellow at Magdalen.

In October 2012 he took up a newly created Professorship of Neuroscience & Philosophy at the School of Advanced Study, University of London, where he directed a Centre for the Study of the Senses. He is leading a project funded by the Arts and Humanities Research Council, which involves philosophers and cognitive neuroscientists working together to define key questions about human perception. In Oxford he maintains a research interest in the very early stages of development of the human embryonic brain. He is studying the way in which neurons are born, distribute themselves and form connections in the embryonic forebrain.

He is currently serving on the Editorial Board of the journal *Neuroscience of Consciousness*.



**UNIVERSITY  
OF LONDON**

**Education and qualifications:** Studied Medical Sciences at University of Cambridge

PhD at the University of California, Berkeley

**Appointments:** Blakemore has been honoured for his scientific achievements with prizes from many academies and societies, including the Royal Society, the Swiss Academy of Medical Sciences, the French Académie Nationale de Médecine, the Royal Australian and New Zealand College of Ophthalmologists, the Royal College of Surgeons in Ireland, the BioIndustry Association and the Royal College of Physicians.



# Sally-Marie Bamford

Director of Strategy and Research at the International Longevity Centre - UK (ILC-UK)

Sally-Marie Bamford, Assistant Director of Research and Strategy joined the ILC-UK in March 2009, and has worked on a number of high profile research projects, including work for the Joseph Rowntree Foundation, Age UK and the Department of Health.



Prior to joining the ILC-UK, Sally-Marie held a variety of posts in the charity and political sector, researching and writing on social care, workforce development and equality and human rights. She also worked in the European Parliament as an advisor and as a speech writer at the Equality and Human Rights Commission. Sally-Marie has a particular interest in equality and human rights for older people, dementia and older people with high support needs. This year Sally-Marie will be working on a number of projects, including dementia and prevention and health seeking behaviour across the generations.

**Education and qualifications:** Has Masters Degree in social policy and research. Is a qualified NCTJ accredited journalist.