

CURRICULUM VITAE

Jeremy Mark Wilkinson
MB ChB; PhD; FRCS (Tr&Orth)

Professor of Orthopaedic Surgery
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CV SUMMARY Jeremy Mark Wilkinson

1. GENERAL

Qualifications:

- **1991 MBChB** University of Sheffield (GMC 3551080)
- **2002 PhD** University of Sheffield
- **2004 FRCS (Ortho & Tr)** Royal College of Surgeons of England

Current Posts:

- 01/12-present: Professor of Orthopaedic Surgery, University of Sheffield
- Honorary Consultant in Orthopaedics, Sheffield Teaching Hospitals

2. TEACHING

- Current PhD students x4
- Undergraduate and post-graduate lectures

3. LEADERSHIP, MANAGEMENT AND ADMINISTRATION

- Executive, HeLSI Sheffield University Research Institute (2018-2021)
- Chair, South Yorkshire and North Derbyshire Musculoskeletal Biobank (2009-)
- Academic lead for Trauma and Orthopaedics, NIHR Clinical Academic Training Programme South Yorkshire (2014-)
- Sir Ernest Finch Memorial Management Committee (2013-2020), Chair (2016- 2020)
- Joint UoS & STH Committee for Human Tissue in Research (2010-)
- Faculty of Medicine, Dentistry & Health External Lecture Series lead (2012-2016)
- Department of Human Metabolism Staff Development Committee (2012-2016)
- STHFT Clinical Research Facility Scientific Advisory Board (2010-2016)
- Lead for Ethics module, BMedSci course (2010-2013)
- UoS - Faculty of Medicine Research Meeting Working Group (2009-2010)
- Deputy director - Sheffield NIHR Bone Biomedical Research Unit (2008-12)
- Sheffield NRES ethics committee expert member (2008-2011).

4. PROFESSIONAL AND EXTERNAL STANDING

- National Association for the Relief of Paget's Disease – Trustee (2022-)
- Orthopaedic Research Society (USA) Nominations Committee (2021-2022)
- Fellowship of the Orthopaedic Research Society (United States, 2021-)
- Jordan University of Science and Technology, Board of Advisors, Professorial Promotion Panel (2020)
- National Institutes for Health & Care Excellence (NICE) Osteoarthritis Guideline Committee – Orthopaedic Expert (2019-2022)
- Scientific Advisory Board - Arthritis Research UK Biomechanics and Bioengineering Centre, Cardiff University (2019-2022)
- International Combined Orthopaedic Research Societies – Fellow of International Orthopaedic Research (2019)
- Scientific Steering Group member - MRC Centre for Integrated Research into Musculoskeletal Ageing (CIMA). Universities of Liverpool, Sheffield, and Newcastle (2019-)
- Steering Committee, Genetics of Osteoarthritis Consortium (2019-) <https://www.genetics-osteoarthritis.com/home/index.html>
- Chair, Board of Trustees, British Orthopaedic Research Society (2018-2020)
- Bone and Joint Research, Editorial Board (2018-)

- Versus Arthritis Treatment grant panel (2018-19)
- Executive Committee, International Society of Arthroplasty Registers (2018-2022)
- President, British Orthopaedic Research Society (2016-2018)
- Orthopaedic Research Society (USA) Board of Directors (2017-2018)
- Orthopaedic Research Society (USA) Annual Meeting Committee (2016-2018), Chair (2017-18)
- Orthopaedic Research Society (USA) Programme Committee (2015-2018), Chair (2016-17)
- International Society of Arthroplasty Registers 2016 Annual Meeting local organising committee
- Medicines and Healthcare products Regulatory Agency Orthopaedic Expert Advisory Group (2015-)
- Arthritis Research UK Medical Advisor (2015-)
- Arthritis Research UK Clinical Research Fellowship Panel (2015)
- National Joint Registry for England, Wales, and Northern Ireland - Chair Research Subcommittee, (2014-)
- National Joint Registry for England, Wales, and Northern Ireland - Steering Committee (2014-)
- National Joint Registry for England, Wales, and Northern Ireland Medical Advisory Committee (2014-)
- The Research Council of Norway - Expert Panel Member, Medicine, Health Sciences and Biology FRIMEDBIO panel 8 (2014)
- Visiting Professor, Department of Surgery, University of Ottawa, Canada (2013)
- St George's, University of London. Board of Advisors, Professorial Promotion Panel (2013)
- International Society of Arthroplasty Registers 2013 Annual meeting local organising committee
- Journal of Orthopaedic Research - Editorial Advisory Board (2012-2016), Editorial Review Board (2016-)
- National Osteoporosis Society - Annual Meeting Committee (2012-2014)
- Orthopaedic Research Society (USA) - Annual meeting Arthroplasty topic chair (2012-2014), and programme committee (2011)
- Orthopaedic Research Society (USA) - Board of Directors (2010-11)
- Orthopaedic Research Society (USA)- Special Projects Committee (2008-2012; chair 2010-11)
- Orthopaedic Research Society (USA), NIRA awards committee (2011, 2014, 2016)
- Arthritis Research UK, Research sub-committee (2010-2014)
- Arthritis Research UK, Clinical Studies Steering Group (metabolic bone disease 2008-2013)
- Arthritis Research UK, Publications Advisory Group (2009-) Expert member
- British Orthopaedic Association- Research Committee (2008-11) and (2013-2016)
- Surgery Journal, editorial advisory board (2008-2014)

5. RESEARCH PUBLICATIONS AND AWARDS

- Total collaborative funding (£8M BRU award), AR-UK (£2.9M), UKCRC (£0.6M), other (£0.6M)
- 150 peer-reviewed publications, Scopus *h*-index 38
- 2022 British Hip Society - Translational Research Prize (BSc student)
- 2021 Royal College of Physicians of England - Wolfson Award (BSc student)
- 2021 British Hip Society - McKee Prize (trainee)
- 2021 Fellow of the Orthopaedic Research Society (United States)
- 2020 American Society for Bone and Mineral Research- Young Investigator Award (MRes student)
- 2018 British Hip Society - President's Prize (BMedSci Student)
- 2018 Hip Society (USA) - Otto Aufranc Award
- 2014 Orthopaedic Research Society (USA) - William Harris Award (PhD student)
- 2014 Orthopaedic Research Society (USA) - New Investigator Recognition Award and Research Translation Award (PhD students)
- 2012 British Orthopaedic Research Society – Best paper (BMedSci student)

Curriculum Vitae – Jeremy Mark Wilkinson

- 2010 British Hip Society- President's prize (BMedSci student)
- 2007 National Institutes of Health (USA) - Young Investigator Award
- 2007 Orthopaedic Research Society (USA) - William Harris Award
- 2003 British Orthopaedic Association - Robert Jones Gold Medal and Association Prize
- 2001 British Hip Society - McKee Prize

1 PERSONAL DETAILS:

SURNAME: Wilkinson FORENAMES: Jeremy Mark

DEPARTMENT: Oncology and Metabolism

EDUCATION AFTER SCHOOL:
1986 – 1991 University of Sheffield Medical School

QUALIFICATIONS:
1991 MB ChB University of Sheffield
2002 PhD University of Sheffield
1996 FRCS (Eng)
2004 FRCS (Trauma & Orthopaedics)

GMC SPECIALIST REGISTER: 3551080, Tr & Orth; Entry Date: 18/08/2006

MEMBERSHIP OF LEARNED SOCIETIES:

- British Hip Society
- British Orthopaedic Association
- British Orthopaedic Research Society (President 2017-2019)
- International Hip Society
- Orthopaedic Research Society
- Osteoarthritis Research Society International

CURRENT APPOINTMENTS:

- Professor of Orthopaedic Surgery, The University of Sheffield (01/12-)
- Honorary Consultant Orthopaedic Surgeon, Sheffield Teaching Hospitals NHS FT (10/07-)

PREVIOUS APPOINTMENTS:

10/07 – 12/11	HEFCE Clinical Senior Lecturer in Orthopaedics, University of Sheffield
12/06 – 09/07	Locum consultant, Orthopaedics and Trauma, Stockport NHS FT
12/05 – 11/06	Cavendish Hip Fellow, Northern General Hospital, Sheffield, UK
02/05 – 07/05	International Arthroplasty Fellow, Wrightington Hospital, Appley Bridge, UK
01/00 – 10/01	Arthritis Research Campaign - Clinical Research Fellow
01/99 – 12/99	John Charnley Trust - Clinical Research Fellow
01/98 – 12/98	Royal College of Surgeons (Eng) - Clinical Research Fellow
08/97 – 11/06	Higher Surgical Training- North Trent T&O HST Scheme
08/92 – 07/97	Basic Surgical Training - Royal Hallamshire Hospital, Sheffield
08/91 – 07/92	Pre-Registration posts - Royal Hallamshire Hospital, Sheffield

2 TEACHING

2.1 CURRENT UNDERGRADUATE AND POST GRADUATE TEACHING

Course title	Level of Teaching	Student Contact Hours
MBChB	Lectures	8
MBChB	Personal tutor	8
ACF	Educational supervisor	2
MBChB	SSC student supervision	100
BSc	Supervisor to 1 student	120
PhD students	Personal tutor	6
PhD students	Supervisor to 4 students	100
Higer Surgical Trainees	Lecture delivery	2

2.2 OTHER TEACHING ACTIVITIES

SSC placement students:

- 2022 Madeleine Convery, Rory Padkin
- 2021 Anjela Jose, Zahira Rushdan
- 2020 Sophie Allen
- 2019 Hamzah Abbas, Yousaf Umar
- 2018 Hend Rashed
- 2017 Yuhaniz Abdul Malik, James Bielby
- 2012 Richard Morris, Neil Lawrence, Peter Orton, Katie Deaton
- 2011 Sam Meadows
- 2010 Vicky Baxter, Vicky Lowden
- 2009 Heather Parry, Kate Hargreaves, Sarah Craig, Tom Sproson
- 2008 Fiona Karlsen, Becky Andrews
- 2006 William Swallow
- 2005 James Tiernan, James Gray

Surgery Journal – Orthopaedic specialty editor (2007- 2014). Elsevier educational journal aimed at postgraduate surgical training up to ST3 level

- 2014 CASE studentship second supervisor Peter Orton
- 2013 AR-UK/British Orthopaedic Association Summer studentship: Peter Orton
- 2012 Arthritish Research UK Summer Studentship: Nick Mani

MSc Projects Student:

- 2006 Parham Aram (joint with Dr V Kadirmanathan, Dept of Automated Control and Systems Engineering)

3 LEADERSHIP, MANAGEMENT AND ADMINISTRATION

3.1 CURRENT ACTIVITIES

I sit on the executive, Healthy Lifespan Institute- Sheffield University Research Institute (2018-2021). I am the orthopaedic steering group member for the MRC Centre for Integrated Research into Musculoskeletal Ageing (CIMA, Universities of Liverpool, Sheffield, and Newcastle, 2019-). I am Academic lead for Trauma and Orthopaedics, NIHR Clinical Academic Training Programme South Yorkshire (2014-). I led the establishment of the South Yorkshire and North Derbyshire Musculoskeletal Biobank in 2009, now in its 13th year, overseeing over 60 projects that use its >500,000 sample resource. Projects using this facility have helped uncover biological mechanisms, biomarkers and novel therapeutic avenues for osteoarthritis and osteoporosis, as well as adverse responses to joint replacement prostheses. I sit on the UoS Committee for Human Tissue in Research (2010-), which oversees local implementation of the act and the running of the shared Biorepository. I sit on the Mellanby Centre management committee, which aims to improve collaboration between research groups within the University that have an interest in hard tissues. I chaired the Sir Ernest Finch Memorial Management Committee (2014-2020), that reviews and provides funding for trainees to attend both national and international research and educational meetings

3.2 PREVIOUS ACTIVITIES

UoS/STHFT Musculoskeletal Biomedical Research Unit (Bone BRU) management committee and deputy director (2008-2011). This committee dealt with the project, staffing, and finances of the unit. Faculty of Medicine Research Meeting Working Group (2009-2010) on behalf of the Department of Human Metabolism, I have sat on various appointments advisory committees for University and NHS staff members. I sat on the Department of Human Metabolism Staff Development Committee (2012-2016), that oversees the Staff Review and Development Scheme (SRDS). Sheffield Teaching Hospitals Clinical Research Facility Scientific Advisory Board (2010-2016). This role involved reviewing project proposals present to the CRF and managing capacity. Chair- Mellanby Centre Annual Research Day 2010-2012. This meeting showcases the work of our department and fosters both internal and external collaborations with other academic institutions and industry, it has several external invited speakers and commercial sponsors, with an attendance of approximately 170. I organised the Medical School Faculty Lecture Series 2012-2015, notable speakers included Sir Simon Wessely (KCL), John Hardy (UCL), David Cameron (Edinburgh), Trish Greenhaulgh (Bart's & The London), Steve Peters (Sheffield) Sir John Savill (Edinburgh), Sadaf Farooqi (Cambridge) & Patrick Maxwell (Cambridge).

3.3 INTERNAL EXAMINER DUTIES:

- BSc examiner 2022
- MBChB examiner 2008-current
- BSc Examiner 2021
- PhD confirmation review Ankita Duseja 2021

- PhD viva Peter Hickey, IICD 2020.
- MPhil to PhD transfer viva examiner Sept 2009
- MD viva internal coordinator Aug 2009
- MPhil to MD transfer viva examiner Oct 2010
- MPhil to MD transfer viva examiner June 2012

4 PROFESSIONAL AND EXTERNAL STANDING

4.1 COMMITTEE MEMBERSHIP AND REVIEW BODY ACTIVITY:

Local: I chaired the Sir Ernest Finch Memorial Management Committee that funds educational opportunities for surgical trainees (2012-2020). I was an expert member of the Sheffield NRES ethics committee from 2008-2011.

National:

I am a trustee of the National Association for the Relief of Paget's Disease (2022-), and sit on its finance and scientific advisory committees. I sit as NIHR HTA RACER-Hip trial Data Monitoring committee member (2021-). I was Chair of the Board of Trustees (2018-2021) and President (2016-2018) of the British Orthopaedic Research Society (BORS). I led the establishment of the society as a Charitable Incorporated Organisation with the Charity Commission and developed the current constitution. During my tenure young membership of the society increased by 30%. I was the Orthopaedic expert member for the National Institute for health and Care Excellence osteoarthritis guideline committee (2019-2022). We develop the guidance for clinicians and policy makers for this condition that constitutes the NHS's 4th largest budget item.

I was appointed (2014) as chair of the Research Committee of the National Joint Registry (NJR), the world's largest surgical audit programme, holding ~3.7 million patient records, and chair its PROMS working group and data alignment working group. I am also appointed by the Department of Health as a member of the NJR's Steering Committee and executive, and sit as a member of its Medical Advisory Committee, and Editorial Board. The NJR develops the evidence base to improve clinical and cost effectiveness through identifying best practice procedures & prostheses that inform health-care policy. We were cited in Parliament in 2020 (Cumberledge report) as a global exemplar of healthcare audit. In this role I have developed initiatives to improve information governance and transparency, ethics, and efficiency of the data sharing, including future research strategy & research priorities, promoting access to data, and establishing links to other datasets. We lead national clinical governance, providing surgeon performance metrics used in appraisal process and by NHS choices to inform the public of surgeon's outcomes. We report on prosthesis performance and related surgical risks through our annual report and by liaison with MHRA. The NJR Medical Advisory Committee role involves advising on specific surgeon-related issues.

I am a member of the MHRA Orthopaedic Experts Advisory Group (2015-) that advises MHRA on implant safety issues in relation to metal-on-metal prostheses.

I sat on the Research Committee of the British Orthopaedic Association (2007 to 2015), the national society for orthopaedics, which guides BOA research policy. I sit as an expert advisor

for the AR-UK Publications Advisory Group, which publishes patient information and as a public spokesperson for the charity. I was a Research sub-committee member for Arthritis Research UK (2011-2014), the UK's largest musculoskeletal charity, which involves panel reviewing 150 project grants per year, and sat on AR-UK's Metabolic Bone Disease Clinical Studies Group (2008-2013), which sets the agenda for clinic studies in this areas.

I contributed orthopaedic input into the British Society for Rheumatology & British Health Professionals in Rheumatology (2009)- Guidelines for the Management of Rheumatoid Arthritis after the first 2 years. I sat on the National Osteoporosis Society Annual Meeting Committee. I sat on the Royal College of Surgeons Recertification Project: Outcomes and peer-review sub-group (2008) that determined how the College would implement GMC revalidation. I have also sat on a National Audit Office Committee examining hip replacement NAO HC 956 Session 2002-2003: Pub:17 July 2003. www.nao.gov.uk. I sat on the National Osteoporosis Society annual meeting programme committee (2012-2014). St Georges's, University of London, Board of advisors, Professorial promotion panel (2013).

International: The Orthopaedic Research Society (USA) is the premier research society in my field. I sat on its Board of Directors (2015-2018), and chaired its Annual Meeting Committee (2017-2018). Chair ORS Programme Committee (2016-2017). Awarded fellowship of the ORS (2021). I also sat in 2010-2011 on the Board of Directors of the ORS. I was a member of the ORS Special Projects Committee for 4 years and its chair in 2010-2011. This committee dealt with educational and other society awards, and also with setting up collaborative exchanges between researchers. I have sat as a member of it's Professional Development and Mentoring Council, and on it's New Investigator Recognition Award Committee (2011-present). I sat as 1 of 5 members of the Editorial Advisory Board of the Journal of Orthopaedic Research (2012-2016), and was the topic chair for Arthroplasty for the ORS annual meeting (2012-2014), and on the annual meeting programme committee (2011-2014). In 2013 I was a member of the local organising committee for the International Society of Arthroplasty Registries. 2013 Visiting Professor – Division of Surgery, University of Ottawa, Canada.

4.2 ACADEMIC AWARDS / RECOGNITION AND PRIZES:

- 2021 Orthopaedic Research Society - Fellowship
- 2020 American Society for Bone and Mineral Research – Young Investigator Award (MRes student)
- 2019 International Combined Orthopaedic Research Societies – Fellowship (FIOR)
- 2018 British Hip Society- Presidents Prize (BMedSci Student)
- 2018 Hip Society (United States) – Otto Aufranc Award
- 2017 Mellanby Centre BMedSci Prize – (BMedSci student)
- 2017 Year best performing student and highest thesis mark prizes (BMedSci student)
- 2014 Orthopaedic Research Society – William Harris Award (PhD student)
- 2014 Orthopaedic Research Society – Research Translation Award (PhD student)
- 2014 Orthopaedic Research Society- NIRA (PhD student)
- 2013 Visiting professor – University of Ottawa, Canada
- 2012 Bone Research Society – Best Basic Poster (PhD student)
- 2012 British Orthopaedic Research Society – Best paper (BMedSci Student)
- 2010 British Hip Society- President's prize (BMedSci student)

- 2009 British Hip Society-Best poster (PhD student)
- 2008 British Orthopaedic Research Society -Best oral Clinical Scientist (PhD Student)
- 2008 British Hip Society - McKee Prize (PhD Student)
- 2007 National Institutes of Health / AAOS Young Investigator Award
- 2007 HEFCE / UKCRC Clinical Senior Lectureship Award
- 2007 Orthopaedic Research Society William Harris Award (PhD Student)
- 2005 British Hip Society 'Plus UK' European Travelling Fellow
- 2004 North Trent Orthopaedic HST Scheme Registrars Prize
- 2003 British Orthopaedic Association - Robert Jones Gold Medal /Association Prize
- 2002 Orthopaedic Research Society (USA) - New Investigator Recognition Award
- 2002 Association of Bone and Joint Surgeons (USA)- Best Clinical Paper
- 2001 British Hip Society - McKee Prize
- 2000 British Orthopaedic Association- Technological Advancement Award
- 2000 National Osteoporosis Society - Young Investigator's Prize
- 1999 North Trent Orthopaedic HST Scheme Registrars Prize

4.3 JOURNAL REVIEWER ACTIVITY:

Acta Orthopaedica, Age and Ageing, American Journal of Human Genetics, Annals of Internal Medicine, Annals of the Rheumatic Diseases, Arthritis and Rheumatism, Bone, Bone and Joint Journal, Bone and Joint Research, Bone Reports, Calcified Tissue International, Clinical Biomechanics, Clinical Chemistry, Clinical Orthopaedics and Related Research, Clinical Rheumatology, Current Research in Translational Medicine, Cytokine, DNA and Cell Biology, eClinical Medicine, EFORT Open Reviews, Expert Review of Clinical Devices, Expert Review of Medical Diagnostics, Human Molecular Genetics, Innate Immunity, Journal of Bone and Mineral Research, JBMR Plus, Journal of Orthopaedic Research, Journal of the Royal College of Surgeons of England, Journal of the Royal Society: Interface, Journal of Trace Elements in Medicine and Biology, Lancet, Maturitas, Molecular Biology Reports, Osteoarthritis and Cartilage, Osteoporosis International, PLOS One, Rheumatology, Science of the Total Environment, Scientific Reports.

4.4 REVIEWER FOR LEARNED SOCIETY ANNUAL MEETINGS:

Bone Research Society, British Hip Society, British Orthopaedic Association, EFORT, British Orthopaedic Research Society, Orthopaedic Research Society, European Calcified Tissue Society, International Society of Arthroplasty Registers

4.5 GRANT REVIEWER:

Agence Nationale De La Recherche France, Academy of Medical Sciences, Arthritis Research UK, Auckland Medical Research Foundation - New Zealand, Dutch Arthritis Association, Estonian Research Council, Heart Research UK, Israel Science Foundation, NC3Rs, National Institutes of Health RfPB programme, NIHR CCRN, Medical Research Council, NHS Grampian, NHS HTA Programme, Norwegian Research Council, Royal British Legion, Wellcome.

4.6 CONSULTANCIES:

Astra Zeneca (2010 and 2011), DePuy International Ltd (2008, 2011 and 2012), Ono Pharma (2012), Joint Replacement Instrumentation Ltd (2012), Biomet Ltd (2014-2016).

4.7 INVITED LECTURES:

- CIMA/CIMAR meeting, Birmingham, May 2023 - What can primary human tissue tell us about bone and cartilage biology?
- British Orthopaedic Association, Birmingham, September 2022 - The value of PROMs: an introduction to the NJR approach for inclusion of PROMs in the NJR datasets and for analysis in the NJR Annual Report
- International Combined Orthopaedic Research Societies, Edinburgh, September 2022 - What Does Epidemiology And Genetics Tell Us About Mechanical Risk Factors In OA?
- East of England Orthopaedic HST (Cambridge) Annual Meeting June 2022 - guest speaker – Orthopaedic registries and research
- British Hip Society, Bournemouth, March 2022 – Dual Mobility Symposium organiser and chair
- Orthopaedic Research Society, Tampa, FL, United States, February 2022 – Spotlight speaker – The molecular landscape of osteoarthritis and prospects for disease-modifying drugs
- Orthopaedic Research Society, Tampa, FL, United States, February 2022 – BORS Workshop chair – Interfaces in Orthopaedics
- Danish Bone Society – Biology of Fracture Healing, Online, November 2021
- European Calcified Tissue Society Annual Meeting, online, June 2021. Fracture healing and impact of osteoporosis therapies.
- CIMA Annual Meeting, Online. 15-16th February, 2021. Non-coding RNA and the heritable biology of heterotopic ossification.
- Hip Society. Orlando, Florida, United States. 28th March 2020. Presidential Guest Lecture. Embracing Big Data. *Meeting cancelled due to COVID-19*
- Paget's Association. Nottingham, 4th October 2019. Surgical Aspects of Paget's Disease.
- International Combined Orthopaedic Research Societies, Montreal, Canada, 20th June 2019. What Does Genetics Tell us about OA Pathogenesis?
- Bisphosphonates 2019, Sheffield, 16th July 2019. Application of bisphosphonates to orthopaedic challenges.
- European Federation for Orthopaedics and Traumatology, Lisbon, Portugal, 5th June, 2019. Using Registry Data to Drive Genomic Studies.
- British Hip Society/ Arthroplasty Care Practitioners Association, Nottingham, 28th February 2019. The National Joint Registry: Overview and Current Initiatives.
- National Osteoporosis Society, Osteoporosis 2018, Birmingham, 4th December, 2018. Fracture Healing
- DKOU, Berlin, Germany, 25th October, 2018. Functional Genomics of Heterotopic Ossification
- International Society for Technology in Arthroplasty, London, 13th October, 2018. Big Data Analysis as a Means to Improve Arthroplasty Outcomes

- International Society for Technology in Arthroplasty, London, 12th October, 2018. Meeting Debate: Is the role of registries overrated? – Mediator.
- International Society for Technology in Arthroplasty, London, 12th October, 2018. Genetic Variation and Risk of PJI and Osteolytic Responses to Prosthetic Materials.
- British Orthopaedic Association, Birmingham, 25th September, 2018. A Web-enabled Patient Decision Aid for Joint Replacement Surgery. NJR Stand talk.
- British Orthopaedic Association, Birmingham, 25th September, 2018. Regenerative Medicine: Coming to a clinic near you soon? Symposium organiser and chair
- South Yorkshire Orthopaedic Basic Science Course. Mercure Hotel, Rotherham, 18th September, 2019. Bone Metabolism and Osteoporosis. Statistics for the FRCS(Orth) exam.
- Arthritis Care. Quaker Meeting House, Sheffield 2nd July 2018. Thinking about having a joint replacement? Decision aids to help discussion with doctors
- MRC Festival of Science. Sheffield 21st June 2018. 'My bones and joints-in health and disease'.
- Hip Society, New Orleans 10th March 2018. The 2018 Otto Aufranc Award. The Genetics of Osteolysis After Total Hip Arthroplasty
- EFORT, Barcelona, 30th May 2018. Personalised Outcomes Prediction: Challenges and rewards.
- NJR London Regional Event, October 19, 2017. Improving Data Quality in the National Joint Registry. The Development of a Patient Decision Aid for Joint Replacement
- GP talk. Porter Brook Medical Centre, Sheffield. 21st September 2017. Managing the patient with hip or knee arthritis.
- South Yorkshire Orthopaedics Basic Science Course, Rotherham September 2017. Bone metabolism and osteoporosis. Statistics for the FRCS(Orth)
- British Orthopaedic Association, Liverpool, September 2017. NJR stand. Patient Decision Aids for Joint Replacement Surgery.
- British Orthopaedic Association, Liverpool, September 2017. The National Joint Registry: Independent Research, Quality And Innovation. Session developer, moderator and speaker
- British Orthopaedic Association, Liverpool, September 2017. Additive Manufacturing: Innovative solutions for orthopaedic challenges. Session developer, moderator and speaker.
- Arthritis Care. Quaker Meeting House, Sheffield 3rd April 2017. Thinking about having a joint replacement? Decision aids to help discussion with doctors
- Patient First Conference, Excel Centre, London November 2016. Patient Decision Aids for Joint Replacement Surgery
- GP talk. Swallownest Health Centre, Sheffield, 6th October 2016. Managing the patient with hip or knee arthritis.
- International Combined Orthopaedic Research Societies, Xi'an, China, September 2016. The The genetics of osteoarthritis.
- GP talk. Kenwood Hall, Sheffield. 18th June 2016. Knee arthritis.
- EFORT, Geneva, Switzerland, June 2016. Registries and Science.
- International Society of Arthroplasty Registries, Manchester, May 2016. Risk calculators for joint replacement, the NJR Perspective.
- Arthritis Care. Quaker Meeting House, Sheffield 9th May 2016. Making a decision to have joint replacement therapy - a workshop
- Rotherham knee course, April 2016. Using and understanding the NJR dataset.

- Sheffield Knee Symposium, January 2016. Using and Understanding the NJR data
- Rotherham Hip Course Nov 2015. Using the NJR to inform your practice
- Keele Young Adult Hip Symposium. Nov 2015, Genetics of osteoarthritis and hip joint shape
- BOA, Liverpool, 17.09.2015. Orthopaedic Research UK session. 'Biological effects of tribocorrosion products on the bone micro-environment and prosthesis osseo-integration'
- British Orthopaedic Association, Liverpool, 16.09.2015. NJR Joint Responsibility – Research subcommittee Update
- British Orthopaedic Research Society, Liverpool 15.09.2015. 'The genetics of Osteoarthritis'
- University of York, Optimising Outcomes of Shoulder Arthroplasty, 25th September 2015. 'Shoulder Research and the NJR'
- Robert Jones and Agnes Hunt Hospital, Oswestry, June 2015. Bioguard RCT update meeting 'DXA-RFA results'
- NJR Regional Roadshow, Guys Hospital, March 2015 'The NJR Research Strategy'
- Society of Toxicology Annual Meeting, San Diego, CA, USA. March 2015. Local and systemic toxicity from cobalt and chromium-containing hip prostheses.
- Arthritis Care Sheffield (patient forum), Quaker meeting House 07.04.2014. Joint replacement.
- European Federation of National Associations of Orthopaedics and Traumatology (EFORT), London 2014. Why do implants fail?
- European Arthritis Surgical Society (ERASS). London June 2014. Prosthetic joint infection.
- American Academy of Orthopaedic Surgeons, March 2014, New Orleans, LA. The Effects of Prosthesis-Derived Systemic Metal Exposure
- British Orthopaedic Association, Birmingham, October 2013. NJR Update: How does register evidence drive practice? Symposium chair.
- Mellanby Centre Research Day, Sheffield, September 2013. Bone and Metallic Prostheses: A wearing problem.
- Istanbul, Turkey, June 2013. EFORT ERASS symposium. Management of joint infection in inflammatory arthritis.
- Ottawa, Canada, May 2013 H.K. Uthoff visiting Professor, University of Ottawa. Genetics of hip shape and osteoarthritis.
- Ottawa, Canada, May 2013 H.K. Uthoff visiting Professor, University of Ottawa. Bone densitometry around hip replacements.
- Metal-on-Metal Hip Replacement – Resolving the uncertainties. London, May 2012: 'Solid organ effects of metal exposure after MOMHR'
- Cambridge HST rotation, Cambridge, March 2011: Aseptic loosening after hip replacement
- 12th meeting of the Combined Orthopaedic Associations, Glasgow, Scotland, Sept 2010: Novel and emerging biological interventions in joint arthroplasty and bone grafting
- European Hip Society, Athens, Greece, Sept 2010: Risk factors for prosthesis loosening
- British Orthopaedic Association, Manchester, England, Sept 2009: 'Arthritis Research Campaign Clinical Studies Groups'
- 34th European Symposium on Calcified Tissues, Copenhagen, Denmark, May 2007: The pathogenesis of implant loosening
- American Academy of Orthopaedic Surgeons: Chicago, IL, USA, March 2006: New horizons in the biology of joint replacement: The genetics of osteolysis and loosening
- European Hip Society: Innsbruck, Austria, June 2004: Genetics of osteolysis after total hip arthroplasty

- Rheumatoid Arthritis Surgical Society: Edinburgh, April 2004: Rheumatoid patient management: Japanese- European perspectives
- British Orthopaedic Association: Birmingham, Sept 2003: Pathogenesis and prevention of aseptic loosening after total hip arthroplasty
- Instructional Course in Total Hip Arthroplasty: Edinburgh, Sept 2002: Genetic predisposition to aseptic loosening after THA
- SICOT Satellite symposium: San Diego, Aug 2002: Experiences with the Plasmacup – Early migration, wear, remodelling and clinical outcome
- Bicontact Symposium: Tuttlingen, Germany. Dec 2000: 10 years experience with the Plasmacup
- 27th European Symposium on Calcified Tissues: May 2000. Tampere, Finland: Bisphosphonates in the prevention of periprosthetic bone loss and aseptic loosening.
- 10th Hologic users meeting: Nov 1998. Royal College of Obstetricians/Gynaecologists: BMD Measurement following total hip arthroplasty.

4.8 EXTERNAL EXAMINER DUTIES:

- University of Copenhagen, Denmark. Cecilie Henkel, PhD, June 2023
- Aalborg University, Denmark. Marius Aliuskevicius, PhD, February 2021
- University of Nottingham. Anand Nair, PhD, February 2020.
- Aalborg University, Denmark. Marius Aliuskevicius, PhD, September 2018
- University of Bristol. Damian Tucker, PhD, Sept 2017
- University of Nottingham. Assad Quireshi, PhD, August 2017
- University of Nottingham. Hessam Soutakbar, PhD, November 2016
- University of Nottingham. Sophie Warner, PhD, September 2016
- University of Glasgow. Andrew J Wilkinson, MD, June 2016
- University of St Andrews. Phillip Walmsley, MD, October 2015
- Leiden University, Netherlands. Mr B Pijls PhD 'Cum Laude' evaluation panel, Jan 2014
- Leiden University, Netherlands. Walter van der Weegen PhD committee, Feb 2014
- Warwick University. Hiran Wimal Amarasekera, PhD, Jan 2014
- Newcastle University. Paul Baker, MD, October 2013
- Newcastle University. David Langton, PhD, July 2013
- University of Leeds. Colin Holton, MSc, Dec 2011
- University of Oxford. Alexander Nicholl, MSc, Dec 2009

4.9 APPOINTMENTS ADVISORY PANELS:

- Consultant in arthroplasty surgery, STHFT, June 2022
- Consultant in arthroplasty surgery, STHFT, April 2019
- Consultant in trauma and pelvic surgery, STHFT, March 2019
- Consultant in arthroplasty surgery and trauma, STHFT, Nov 2016
- Consultant in spinal surgery, STHFT, May 2016
- Consultant in trauma / upper limb, STHFT, February 2014
- St George's, University of London, board of advisors, professorial promotion panel (2013)

- Consultant in Trauma Rehabilitation, STHFT, November 2013
- Consultant in Spinal Surgery, STHFT, December 2013
- Consultant in Orthopaedics, Rotherham District General Hospital, 2008
- Sheffield Clinical Research Fellowship posts 2008, 2009, 2011, 2012, 2013.

PODCASTS AND VIDEOS

- FutureLearn massive open online course (MOOC) musculoskeletal ageing 2016 – delivered osteoarthritis content. Course had 11,000 sign ups, with 70% completion rate
- FutureLearn massive open online course (MOOC) musculoskeletal ageing 2017 – delivered osteoarthritis content

RESEARCH AND PUBLICATIONS

5.1 RESEARCH AREAS AND IMPACT

In the UK 25% of adults older than 65 years suffer pain and disability due to osteoarthritis. My work has focussed on the causes and treatment of arthritis, and also on the biological effects of joint prostheses on the patient.

I have been a key member of various consortia that have sought to better understand the molecular biology of osteoarthritis, identify to date 100 genetic loci for the disease, and also understanding the causal mechanisms behind these associations at the genomic level, including transcribed signal, proteomics and epigenetic regulation. These advances have led to multiple high impact publications, including Lancet, Cell, Nature Genetics, and multiple other translational and basic science journals, and will one day transform our management of the disease.

My other areas of research include the identification of novel biomarkers and imaging techniques for detecting osteolysis, exploration of the molecular mechanisms that underpin its development and novel pharmacological strategies for its treatment, and the systemic health effects of metal ion exposure after hip resurfacing.

I was the first to use National Joint Registries as a mechanism to study the biology of rare musculoskeletal diseases and immune reactions to prostheses. I have recruited over 5,000 subjects in the UK and Norway using this methodology. I was the first researcher to show that genetic polymorphism influences the risk of osteolysis and of heterotopic ossification after hip replacement, and the first to demonstrate differences in innate immune responses between high and low risk individuals. I quantitated the relationship between prosthesis wear and failure, and published the first clinical trial of bisphosphonate use as a pharmacological intervention after hip replacement (2001). I am chief investigator for the first phase-2 clinical trial to study the effect of monoclonal antibody therapy to modulate the effects of adverse

reactions to prostheses (EUDRACT Number 2011-000541-20). This study showed the effect of denosumab on osteolytic activity, a first for this disease (Lancet Rheumatology 2021).

The beneficiaries of my work are patients with OA or undergoing joint replacements, whose quality of life will be improved by the amelioration of avoidable risks, through novel approaches to genetic analysis, immunology and epidemiology. The NHS benefits by stratification of patients by prognostic risk, more intelligent use of resources, and enlarged repertoire of therapies.

5.2 RESEARCH GRANTS AND CONTRACTS

Current grants:

R/148985-11-8	Medical Research Council CIMA –omics award Spatial Transcriptomics of human intervertebral disc tissue to understand the pathophysiological role of cellular senescence during ageing and degeneration. 01.02.2023 – 30.03.2023, Le Maitre (PI: 80%) Wilkinson (20%)	£17,666
R/148985-11-7	Medical Research Council CIMA –omics award CIMA PhD studentship sequencing costs 01.02.2023 – 30.03.2023, Wilkinson (PI: 100%)	£14,098
R/148985-11-5	Medical Research Council CIMA –omics award Effect of RANK ligand inhibition on human osteoclasts in a randomised clinical trial: A bone tissue level spatial transcriptomics analysis 01.02.2023 – 30.03.2023, Wilkinson (PI:80%), Le Maitre (20%)	£25,049
R/178059	Helmholtz Association, Munich, Germany Single cell gene expression in osteoarthritis cartilage 01.07.2023-30.06.2024 Wilkinson (PI: 100%)	€423,202
R/180459	Health Data Research UK (HDRUK) Mapping of the NJR dataset to the OMOP CDM 01.03.2023-08.02.2024 Wilkinson (PI: 3% effort)	£60,000
R/177145	Medical Research Council Impact Acceleration Account Preclinical development of mesenchymal stem cell-based regenerative therapy for the treatment of Osteoarthritis (03/01/2023 to 02/01/2024) Wilkinson (PI: 50%), Kiss-Toth.	£76,663
R/179558	Health Quality Improvement Partnership The NJR 2023 Artificial Intelligence PhD studentship 01.10.2023-30.09.2027 Wilkinson (PI:95%), Kadiramanathan (5%)	£171,679
R/172971	NIHR Health Technology Assessment NIHR134800: PERISCOPE: PERIoperative biologic DMARD management: Stoppage or COntinuation during orthoPaEdic operations 01/09/2022-31/12/2026 Pandit, Mankia, Rangan, Nanchahal, van Duren, Coates, Abhishek, Wilkinson, Marzo-Ortega, Maxwell, Richards, Hewitt, Adamson, Shepherd, Ronaldson.	£1,756,765

Past grants:

R/168267	NIHR Policy Research Programme Using Artificial Intelligence to Tackle Multiple Long-Term Conditions – Multimorbidity in South Yorkshire NIHR202649. 04/01/2020-31/12/2021 Bath, Burton, Weich, Strong, Saffi, Stone, Wilkinson, Vega de Leon, Alvarez, Hopfgartner, Mazumdar, Stevenson, Kadiramanathan, Mir, Buchan, Riley.	£118,550
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R/162723	Ottawa University Research Institute, Canada	£42,689
A Randomized Clinical Trial of a Modular Cementless Acetabular Metal on Poly Component versus a Monoblock Cementless Titanium Shell with Ceramic on Ceramic Bearing and CORAIL Stem: A Bone Mineral Density Study		
Jan 2019 to December 2020 Wilkinson (PI)		
326709	HELSI PhD Studentship	£90,000
Functional role of osteoarthritis / cardiovascular common risk genes in ageing multimorbidity		
October 2019 to July 2022		
R/160323	Helmholtz Association, Munich, Germany	£326,312
Functional genomics approaches to understand osteoarthritis		
01/10/2019 to 30/09/2024 Wilkinson (PI)		
R/2124333	Medical Research Council	£90,000
The functional role of long non-coding RNA CASC20 in modulating bone formation in musculoskeletal disease		
2018-2022 Wilkinson/Kiss-toth PhD studentship 2018 (PI)		
R/148985	Medical Research Council	£16,963
CIMA capital equipment grant		
31.05.2022 Wilkinson (PI: 100%)		
R/151139	MRC minor equipment grant	£6,399
CIMA Multipurpose Cryosection Preparation Kit and Blades 01.02.2017 Wilkinson (PI)		
R/156915	Health Quality Improvement Partnership (PI)	£108,000
Patient Decision Aid for Joint Replacement PhD Studentship		
01/10/2018 – 30/12/2021 Wilkinson/Kadirkamanathan		
R/146118	NIHR Health Technology Assessment Programme 15/80/40	£268,076
Risk-benefit and costs of unicompartmental (compared to total) knee replacement for patients with multiple co-morbidities: a non-randomised study, and different novel approaches to minimise confounding 01.03.2017-31.03.2019 Preto-Alhambra, Carr, Judge, Silman, Pinedo-Villanueva, Arden, Petersen, Beard, Wilkinson, Douglas, Valderas, Lamb, Murray		
R/144770	Health Quality Improvement Partnership (PI 20%)	£140,980
NJR Data Access Portal Development		
2016-2017 Kadirkamanathan, Wilkinson, Hills, Northgate Information Solutions		
NIHR Academic Clinical Fellowship (Matt Clark) (PI)		£119,130
2016-2019		
R/142616	Arthritis Research UK 20894 (PI 50%)	£244,694
Development of a Personalized Health Forecasting Tool for Patients Undergoing Hip or Knee Replacement 2015-2019 Wilkinson, McCloskey, Kadirkamanathan, Blom		

R/130416	Amgen Inc (PI 100%) Effect of denosumab on osteolytic activity after THA 01/06/2011 to 31/12/2021 JM Wilkinson	£104,328
R/148189	Wellcome Trust Sanger Institute (PI 100%) Functional Genomics Approaches to Understand Osteoarthritis 2016-2018 Wilkinson	£150,000
R/130134	Healthcare Quality Improvement Partnership (PI 100%) Development of an NJR DNA Biobank: Pilot study 2012-2018 JM Wilkinson	£193,745
R/144753	Arthritis Research UK 21163 (PI 100%) Resolving the genetic architecture of aseptic loosening after total hip replacement 2016-2017 Wilkinson, Zeggini, Furnes, Hatzikotoulas	£116,666
R/140825	Orthopaedic Research UK 517 (PI 50%) Biological effects of tribocorrosion products on the bone micro-environment and prosthesis osseo-integration 2015-2016 Wilkinson, Gartland, Shah	£93,245
R/ 138289	Western Park Cancer Charity (Col TBC) Developing a humanised model to study the early stages of breast cancer bone metastasis 2014-2016 Ottewell, Holen, Wilkinson	£98,663
R/314370	Arthritis Research UK/MRC (PI 100%) CIMA PhD studentship 2014-2017 JM Wilkinson	£94,000
R/141280	The Cavendish Hip Foundation (PI 100%) Cavendish Hip Foundation BMedSci Studentships 2014-2017 JM Wilkinson	£30,000
R/143481	Sheffield Hospitals Charity (PI 100%) OsteoPro: A Software System for Assessing Osteoporosis Progression using a Sheffield-born Innovation based on High-Spatial- Resolution Bone Densitometry with DXA Region-Free Analysis 2015 Wilkinson	£15,715
R/139408-1	The Cavendish Hip Foundation (PI 100%) Interaction of human cells with prosthetic materials 2014-2015 JM Wilkinson	£18,417

R/ Arthritis Research UK (Co-I-% allocation TBC, funds to STH) Effect of bisphosphonate therapy on healing and clinical outcome of wrist fractures:Randomised controlled trial 2011-2016 S Ralston, R Atkins, A Blom, C Court-Brown, M McQueen, G Murray, J Tobias, JM Wilkinson	£723,692
R/131979 National Institutes of Health Research (PI 100%) Biomedical Research Fellowship (PhD student K Shah) 2012-2014 JM Wilkinson	£72,458
Sheffield Hallam Biomedical Research Centre (Co-I 0%) Role of cannabinoids in cartilage degeneration 2010-2013 PI Rowena Bunning. JMW –co-applicant	£71,833
National Institutes of Health Research (NIHR) BRU Award (Co-I) NIHR STH CBR Capital build costs awarded to STH, Co-I) 2008-2012 R Eastell, N Peel, JM Wilkinson, AJ Hamer, E McCloskey, R Coleman, P Croucher	£3,750,000 £4,000,000
HEFCE / UKCRC: CSL round 2 Award (PI 100%, salary award to UoS) 2007-2012 JM Wilkinson	£250,000
Weston Park Hospital Cancer Charity (Co-I 5% allocation) Genetic alterations responsible for initiation of breast cancer metastases to bone 2011-2012 P Ottewell, M Jones, RE Coleman, JM Wilkinson, I Holen	£51,595
R/132006 National Institutes of Health Research (PI 100%) Systemic effects of chronic metal ion exposure from metal on metal hip resurfacing 2011-2012 JM Wilkinson	£15,000
Diamond Light Source, Oxon (Co-I 100%, research income in kind) Metal ions and bone cells 2010-2011 K Shah, A.Gartland, JM Wilkinson	£130,466
Joint Action, British Orthopaedic Association (PI 100%) The genetic basis for radiographic pattern of osteoarthritis at the hip and knee 2010-2011 S Thiagarajah, JM Wilkinson	£50,000
DePuy International Ltd (PI 100%) Clinical Research Fellow studentship 2011 JM Wilkinson	£45,000
R/124344-11-1 South Yorkshire Clinical Research Network (PI 100%) 2009-2010 salary for CHF clerk and research nurse	£46,000
Diamond Light Source, Oxon (PI 100%, research income in kind)	£81,909

Metal ions and bone cells

2009-2010 K Shah, A Gartland, JM Wilkinson

Arthritis Research Campaign- arcOGEN Project (Co-I 3%) £2,185,622
2007-2009 J Loughlin, N Arden, AJ Carr, K Chapman, P Deloukas, M Doherty, A McCaskie,
W Ollier, S Ralston, T Spector, A Valdes, G Wallis, JM Wilkinson, E Zeggini
(R/121340-11-1 Wilkinson University of Newcastle subcontract £60,902)

Cavendish Hip Foundation (PI 100%) £14,100
2008-2009 Salary for CHF Clerk (R/122480-11-1)

Cavendish Hip Foundation (R/123018-11-1) (PI 100%) £12,000
2008-2009 R Andrews Effect of metal ions on bone cells

Arthritis Research Campaign Intercalated BSc Studentship (PI 100%) £8,000
2008-2009 R Jayasuria (student), JM Wilkinson

R/106205-11-1 DePuy Ltd (PI 100%) £200,295
Effect of cemented stem design on periprosthetic bone loss and implant stability in primary
total hip arthroplasty.
2003-2009 JM Wilkinson, I Stockley, AJ Hamer, R Eastell

Robert Mathys Foundation: LDA studies in aseptic loosening (CI 0%) £17,067
2007-2008 W Hofstetter, JM Wilkinson (CHF 34,040)

John Charnley Trust: (PI 100%) £7,500
Genetic basis of aseptic loosening after total hip arthroplasty
2005-2006 JM Wilkinson, A Gordon

Arthritis Research Campaign (PI 100%) £54,000
Effect of promoter haplotype on transcriptional activation of pro-inflammatory cytokines in total
hip arthroplasty.
2003-2006 A Gordon, JM Wilkinson

Royal College of Surgeons of England (PI 100%) £141,018
Effect of promoter haplotype on transcriptional activation of pro-inflammatory cytokines in total
hip arthroplasty
2003-2006 A Gordon, JM Wilkinson, R Eastell

Arthritis Research Campaign (PI 100%) £48,945
Genetic basis of aseptic loosening after total hip arthroplasty
2001-2002 JM Wilkinson, GW Duff, R Eastell

De Puy Ltd (PI 100%) £26,000
A two year randomised comparison of the Ultima TPS versus the Exeter stems in primary total hip
arthroplasty
2000-2003 JM Wilkinson, I Stockley, AJ Hamer, R Eastell

The John Charnley Trust (PI 100%) Effect of pamidronate on early bone loss and migration after THA 1999 JM Wilkinson, I Stockley, R Eastell	£18,000
Royal College of Surgeons of England (PI 100%) Prevention of bone loss after total hip arthroplasty 1998 JM Wilkinson, R Eastell	£35,000
Wishbone Trust (BOA) (PI 100%) Prevention of bone loss after total hip arthroplasty 1998 JM Wilkinson, I Stockley, R Eastell	£25,000
Novartis Ltd (CI 0%) Prevention of bone loss after total hip arthroplasty 1999 JM Wilkinson, R Eastell	£20,000

5.3 RESEARCH DEGREE SUPERVISION

Abdulaziz Alghamdi	2022-	PhD (2 nd supervisor)
Benedicktas Valys (HeLSI/EPSRC)	2020-	PhD (2 nd supervisor)
Favour Felix-Ilenhembhio (CIMA)	2019-	PhD
Naghham Yousef (HeLSI)	2019-	PhD (2 nd supervisor)
Yulia Kehayova (CIMA Newcastle)	2019-	PhD (2 nd supervisor)
Fabio deMello (NJR)	2018-2022	PhD (2 nd supervisor)
Mohsen Farzi	2014-2018	PhD
Eleni Zeggini	2014-2019	PhD (part-time)
Shankar Thiagarajah	2010-2017	PhD (part-time)
Scott Macinnes	2010-2016	PhD (part-time)
Karan Shah	2009-2014	PhD
Sara Dunn	2009-2014	PhD (SHU, co-supervisor)
Andrew Gordon	2003-2011	PhD

Ella Reeve	2022-2023	BSc	
William Giles	2021-2022	BSc	First Class
Conor Gormley	2020-2021	MRes	Distinction
Mohit Mahatma	2018-2019	MRes	Distinction
Favour Felix-Ilenhembhio	2018-2019	MRes	Distinction
James Whitehead	2016-2017	MRes	Distinction
George Pickering	2016-2017	BMedSci	First Class
Jonathan Simpson	2015-2016	BMedSci	2:1
Andrew Parker	2014-2015	BMedSci	First Class
Richard Morris	2012-2013	BMedSci	First Class
Christopher Blackwell	2011-2012	BMedSci	2:2
Ed Harlock	2010-2011	BMedSci	2:2
Matt Clark	2010-2011	BMedSci	First Class
Elena Del Vescovo	2009-2010	BMedSci	First Class
Jennifer Prentice	2009-2010	BMedSci	First Class
Raveen Jayasuria	2008-2009	BMedSci	First Class
Rebecca Andrews	2008-2009	BMedSci	First Class
NR Shetty	2005-2009	MPhil	

Foundation trainee research placement supervision

William Giles	2022
George Pickering	2021
Nicole Abdul	2012-2013
Jennie Prentice	2012-2013
Matt Clark	2014-2015

NIHR Academic Clinical Fellows (Tr and Ortho)

Andreas Fontalis	2018-2020
Raveen Jayasuriya	2014-2017
Matt Clark	2016-2019

5.4 PUBLICATIONS

Summary

h-index (Scopus) = 38

Publication type	Number
Book Chapters & Reports – In print	10
Refereed Journals – In print – Original articles	155
Refereed Journals – In print – Reviews	21
Non-refereed reviews – In print	7

5.4.1 Book Chapters – in print

- 1 OECD (2022), "International assessment of the use and results of patient-reported outcome measures for hip and knee replacement surgery: Findings of the OECD Patient-Reported Indicator Surveys (PaRIS) working group on hip and knee replacement surgery", OECD Health Working Papers, No. 148, OECD Publishing, Paris, <https://doi.org/10.1787/6da7f06b-en>
- 2 OECD (2021), "Hip and knee surgery", in Health at a Glance 2021: OECD Indicators, OECD Publishing, Paris. <https://doi.org/10.1787/84e68387-en>
- 3 OECD PROMS indicators working group (2019). OECD Health at a Glance 2019: OECD Indicators, OECD Publishing, Paris. <https://doi.org/10.1787/4dd50c09-en>.
- 4 Canadian Institute for Health Information, Organisation for Economic Co-operation and Development. *OECD Patient-Reported Indicator Surveys (PaRIS) Initiative: Patient-Reported Outcome Measures (PROMs) for Hip and Knee Replacement Surgery — International Data Collection Guidelines*. Ottawa, ON: CIHI; 2019. ISBN 978-1-77109-884-7 PDF
- 5 Thiagarajah S, Grammatopoulos G, Wilkinson JM (2020). Etiology of Hip Dysplasia: Genetic & Environmental, In: Hip Dysplasia: Understanding and treating instability of the native hip. Beaulé PE (Ed) Springer International Publishing, ISBN 978-3-030-33357-7, DOI: 10.1007/978-3-030-33358-4.
- 6 O’Shea T, Wilkinson JM, Jones J (2017). Adjoin, in Painscapes, Gonzalez-Polledo and Tarr (Eds) Palgrave-Macmillan, ISBN 978-1-394-95271-7
- 7 Wilkinson JM, Dunbar A. Pain in the Knee, in ABC of Rheumatology, 5th Ed., BMJ Books, 2014
- 8 Gordon A, Matar H, Wilkinson JM (2013). Hip and Knee Arthroplasty in the Patient with Inflammatory Arthritis, Arthroplasty-Update, Kinov (Ed), ISBN 978-953-51-0995-2
- 9 Wilkinson JM, Dunbar A. Pain in the Knee, in ABC of Rheumatology, 4th Ed., BMJ Books, Oct 2009
- 10 Scott J. MacInnes, Andrew Gordon and J. Mark Wilkinson (2012). Risk Factors for Aseptic Loosening Following Total Hip Arthroplasty (Chapter 14, 275-294), Recent Advances in Arthroplasty, Dr. Samo Fokter (Ed.), ISBN: 978-953-307-990-5, InTech Open. DOI: 10.5772/26975

5.4.2 Refereed Journals – In print *indicates joint author position

1. (J) PMID: 37565339. Leta, T. H., Fenstad, A. M., Lygre, S. H. L., Lie, S. A., Lindberg-Larsen, M., Pedersen, A. B., W-Dahl, A., Rolfson, O., Bülow, E., Ashforth, J. A., van Steenbergen, L. N., Nelissen, R. G. H. H., Harries, D., De Steiger, R., Lutro, O., Hakulinen, E., Mäkelä, K., Willis, J., Wyatt, M., Frampton, C., Grimberg, A., Steinbrück, A., Wu, Y., Armaroli, C., Molinari, M., Picus, R., Mullen, K., Illgen, R., Stoica, I. C., Vorovenci, A. E., Dragomirescu, D., Dale, H., Brand, C., Christen, B., Shapiro, J., Wilkinson, J. M., Armstrong, R., Wooster, K., Hallan, G., Gjertsen, J.-E., Chang, R. N., Prentice, H. A., Paxton, E. W., & Furnes, O. The use of antibiotic-loaded bone cement and systemic antibiotic prophylactic use in 2,971,357 primary total knee arthroplasties from 2010 to 2020: an international register-based observational study among countries in Africa, Europe, North America, and Oceania. *Acta Orthopaedica* 2023, 94, 416–425. <https://doi.org/10.2340/17453674.2023.17737>
2. (J) PMID: 37308999. McLaughlin J, Kipping R, Owen-Smith A, McLeod H, Hawley S, Wilkinson JM, Judge A. What effect have commissioners' policies for body mass index had on hip replacement surgery?: an interrupted time series analysis from the National Joint Registry for England. *BMC Med.* 2023 Jun 13;21(1):202. doi: 10.1186/s12916-023-02899-3.
3. (J) PMID: 37208701. Kehayova YS, Wilkinson JM, Rice SJ, Loughlin J. Osteoarthritis genetic risk acting on the galactosyltransferase gene COLGALT2 has opposing functional effects in articulating joint tissues. *Arthritis Res Ther.* 2023 May 19;25(1):83. doi: 10.1186/s13075-023-03066-y.
4. (J) PMID: 36662418. Faber BG, Frysz M, Hartley AE, Ebsim R, Boer CG, Saunders FR, Gregory JS, Aspden RM, Harvey NC, Southam L, Giles W, Le Maitre CL, Wilkinson JM, van Meurs JBJ, Zeggini E, Cootes T, Lindner C, Kemp JP, Davey Smith G, Tobias JH. A genome-wide association study meta-analysis of alpha angle suggests cam-type morphology may be a specific feature of hip osteoarthritis in older adults. *Arthritis Rheumatol.* 2023 Jan 20. doi: 10.1002/art.42451.
5. (J) PMID: 36705620. de Steiger RN, Hallstrom BR, Lübbecke A, Paxton EW, van Steenbergen LN, Wilkinson M. Identification of implant outliers in joint replacement registries. *EFORT Open Reviews* 2023 Jan 27;8(1):11-17. doi: 10.1530/EOR-22-0058.
6. (J) PMID: 36538011. Kehayova YS, Wilkinson JM, Rice SJ, Loughlin J. Independent osteoarthritis risk-conferring alleles mediate the same epigenetic and transcriptional effect on a shared target gene, COLGALT2. *Arthritis Rheumatol.* 2022 Dec 20. doi: 10.1002/art.42427
7. (J) PMID: 36182100. Kaokhum N, Pinto-Fernández A, Wilkinson M, Kessler BM, Ismail HM. The mechano-ubiquitinome of articular cartilage: Differential ubiquitination and activation of a group of ER-associated DUBs and ER stress regulators. *Mol Cell Proteomics.* 2022 Sep 28:100419. doi: 10.1016/j.mcpro.2022.100419
8. (P) PMID: 36106695. Boulton C, Harrison C, Wilton T, Armstrong R, Young E, Pegg D, Wilkinson JM. Implementing large-scale data quality validation in a national arthroplasty registry to improve compliance : the National Joint Registry data quality audit programme. *Bone Jt Open.* 2022 Sep;3(9):716-725. doi: 10.1302/2633-1462.39.BJO-2022-0051.R1.
9. (J) PMID: 36047019. Penfold CM, Judge A, Sayers A, Whitehouse MR, Wilkinson JM, Blom AW. Temporal trends in comorbidity in adult elective hip and knee arthroplasty patients in England : a national population-based cohort study from the National Joint

- Registry. *Bone Joint J.* 2022 Sep;104-B(9):1052-1059. doi: 10.1302/0301-620X.104B9.BJJ-2022-0013.R1.
10. (P) PMID: 36012474. Pickering GAE, Felix-Ilemhembio F, Clark MJ, Kocsy K, Simpson J, Bellantuono I, Gartland A, Wilkinson JM, Hatzikotoulas K, Kiss-Toth E. The Kinesin Gene KIF26B Modulates the Severity of Post-Traumatic Heterotopic Ossification. *Int J Mol Sci.* 2022 Aug 16;23(16):9203. doi: 10.3390/ijms23169203.
 11. (J) PMID: 35901444. Ingelsrud LH, Wilkinson JM, Overgaard S, Rolfson O, Hallstrom B, Navarro RA, Turner M, Karmakar-Hore S, Webster G, Slawomirski L, Sayers A, Kendir C, de Bienassis K, Klazinga N, Dahl AW, Bohm E. How do Patient-reported Outcome Scores in International Hip and Knee Arthroplasty Registries Compare? *Clin Orthop Relat Res.* 2022 Jul 8. doi: 10.1097/CORR.0000000000002306. Online ahead of print.
 12. (J) PMID: 35767546. McLaughlin J, Kipping R, Owen-Smith A, McLeod H, Hawley S, Wilkinson JM, Judge A. What effect have NHS commissioners' policies for body mass index had on access to knee replacement surgery in England?: An interrupted time series analysis from the National Joint Registry. *PLoS One.* 2022 Jun 29;17(6):e0270274. doi: 10.1371/journal.pone.0270274. eCollection 2022.
 13. (P) PMID: 35748609. Farzi M, Pozo JM, McCloskey E, Eastell R, Harvey NC, Frangi AF, Wilkinson JM. Quantitating Age-Related BMD Textural Variation from DXA Region-Free-Analysis: A Study of Hip Fracture Prediction in Three Cohorts. *J Bone Miner Res.* 2022 Sep;37(9):1679-1688. doi: 10.1002/jbmr.4638. Epub 2022 Jul 15.
 14. (P) PMID: 35679866. Kreitmaier P, Suderman M, Southam L, Coutinho de Almeida R, Hatzikotoulas K, Meulenbelt I, Steinberg J, Relton CL, *Wilkinson JM, *Zeggini E. An epigenome-wide view of osteoarthritis in primary tissues. *Am J Hum Genet.* 2022 Jun 3:S0002-9297(22)00216-6. doi: 10.1016/j.ajhg.2022.05.010.
 15. (J) PMID: 34897459. Hartley A, Sanderson E, Granel R, Paternoster L, Zheng J, Smith GD, Southam L, Hatzikotoulas K, Boer CG, van Meurs J, Zeggini E; Genetics of Osteoarthritis Consortium, Gregson CL, Tobias JH. Using multivariable Mendelian randomization to estimate the causal effect of bone mineral density on osteoarthritis risk, independently of body mass index. *Int J Epidemiol.* 2021 Dec 13:dyab251. doi: 10.1093/ije/dyab251.
 16. (J) PMID: 35110524. Bjornsdottir G, Stefansdottir L, Thorleifsson G, Sulem P, Norland K, Ferkingstad E, Oddsson A, Zink F, Lund SH, Nawaz MS, Bragi Walters G, Skuladottir AT, Gudjonsson SA, Einarsson G, Halldorsson GH, Bjarnadottir V, Sveinbjornsson G, Helgadottir A, Styrkarsdottir U, Gudmundsson LJ, Pedersen OB, Hansen TF, Werge T, Banasik K, Troelsen A, Skou ST, Thørner LW, Erikstrup C, Nielsen KR, Mikkelsen S; DBDS Genetic Consortium; GO Consortium, Jonsdottir I, Bjornsson A, Olafsson IH, Ulfarsson E, Blondal J, Vikiingsson A, Brunak S, Ostrowski SR, Ullum H, Thorsteinsdottir U, Stefansson H, Gudbjartsson DF, Thorgeirsson TE, Stefansson K. Rare SLC13A1 variants associate with intervertebral disc disorder highlighting role of sulfate in disc pathology. *Nat Commun.* 2022 Feb 2;13(1):634. doi: 10.1038/s41467-022-28167-1.
 17. (P) PMID: 35088088. Katsoula G, Steinberg J, Tuerlings M, de Almeida RC, Southam L, Swift D, Meulenbelt I, *Wilkinson JM, *Zeggini E. A molecular map of long non-coding RNA expression, isoform switching and alternative splicing in osteoarthritis. *Hum Mol Genet.* 2022 Jan 28;31(1):ddac017. doi: 10.1093/hmg/ddac017
 18. (P) PMID: 34985042. Deere K, Matharu GS, Ben-Shlomo Y, Wilkinson JM, Blom AW, Sayers A, Whitehouse MR. The risk of all-cause mortality, heart outcomes, cancer, and neurodegenerative disorders with cobalt-chrome-containing total hip arthroplasty implants:

- an analysis of the National Joint Registry. *Bone Joint J.* 2022 Jan 12;1-9. doi: 10.1302/0301-620X.104B.BJJ-2021-0397.R1. Online ahead of print.
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5.5 Research in Progress and future work

My current research areas include use of national and international datasets to inform the development of personalized health forecasting tools for patients after joint replacement, characterising the epidemiology of adverse systemic effect of metal exposure, and the genetic susceptibility to osteoarthritis and osteolysis by GWAS. I participate in a consortium examining effect of endophenotype on genetic susceptibility to OA hip and knee, and examining the genetic determinants of hip shape. I work closely with collaborators at the Helmholtz Institute on Munich to study the functional genomics of osteoarthritis. I collaborate with Bristol University and University of East Anglia examining effect of ethnicity on joint replacement incidence in England, Wales and Northern Ireland, on joint replacement epidemiology in inflammatory arthritis, and on hip replacement outcomes in spina bifida. I also have research collaborations within UoS, for example including the functional relevance of genetic polymorphisms on gene activity (E Kiss-Toth), the effect of metal ions after MOMHR on systemic and bone health (multiple collaborators). I am conducting a phase 2 clinical trial as CI examining the effect of RANKL inhibition on osteolytic lesion activity after THA. I have collaborations with SHU examining the role of cannabinoid receptor modulation in OA progression (LeMaitre).