

Institution: KING'S COLLEGE

Unit of Assessment: 21 SOCIOLOGY

1. Unit context and structure, research, and impact strategy

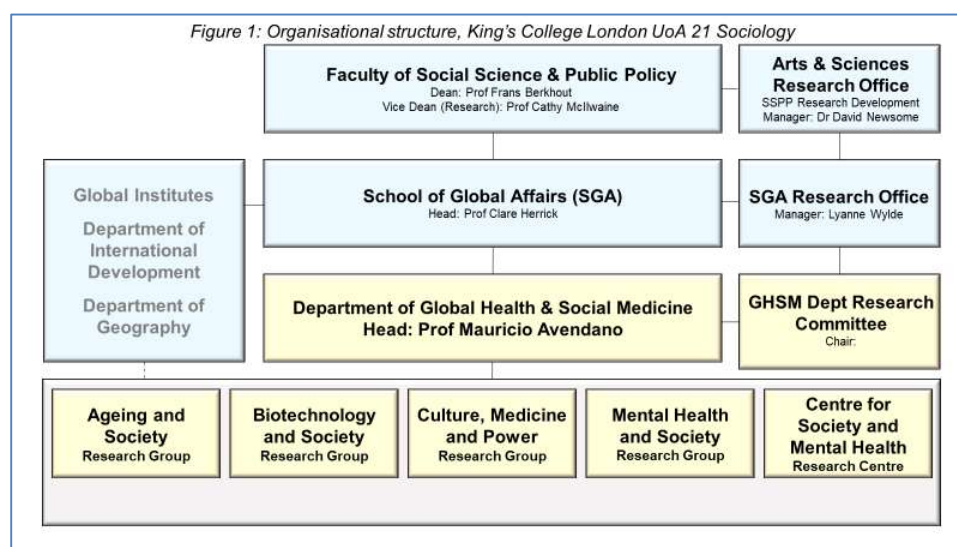
1.1 Overview – context and structure

The Department of Global Health & Social Medicine (GHSM) at King's College London brings social science perspectives to bear on the most pressing global health challenges (i.e. the complex social determinants of health, illness and ageing), understanding their local specificities and social consequences and leading to actionable impacts (see Figure 1 for organisational structure within King's). Founded in 2012, GHSM has made a unique contribution to the social science of health and medicine through conceptually innovative and empirically rich research, multiple interdisciplinary collaborations, engagement beyond academia with diverse global and local actors, and the facilitation of the translation of social science research into clinical practice and health policy.

GHSM has 37 interdisciplinary research-active staff and hosts 258 undergraduate, postgraduate and research students. HESA grant return income for UoA 21: Sociology during the REF period since August 2013 has been £11M (see REF4b).

GHSM research has focused on four key areas, each supported by a research group: Ageing and Society deploys innovative quantitative research methodologies to understand the growing challenges of global ageing;

Biotechnology and Society explores the social, legal, political and ethical implications of our capacities to re-engineer life itself; Culture, Medicine and Power, supported by major awards from the Research Councils



UK (RCUK), National Institutes of Health (NIHR), and The Wellcome Trust, challenges the hegemony of western biomedicine in understanding global health and illness; Mental Health and Society, now linked to the Centre for Society and Mental Health (CSMH), funded by a major Economic and Social Research Council (ESRC) centre grant (£8M full value), illustrates GHSM's capacity to innovate through collaborations with the health disciplines, using state-of-the-art social theory and research methods to understand the lived experience of mental health in social adversity, and is already providing critical evidence on the mental health impacts of the COVID-19 pandemic, influencing key debates on the impact of contemporary social changes on mental health.

1.2 Research and impact strategy

GHSM's current and future research and impact strategy has four key strands:

- nurturing a **vibrant and supportive research culture**, using grant income to create collaborative research teams that attract further grants, visiting scholars and research networks;
- building **major interdisciplinary collaborations** between the social sciences, arts and humanities and biomedical, reproductive and neuro-technologies to provide innovative sociological contributions to global health and medicine;
- achieving **societal impact by engaging** with key stakeholders to translate research findings into policy and practice, creating new North–South partnerships for knowledge exchange and mutual learning to ensure that knowledge arising from GHSM research informs key debates in global health and medicine;
- assuring **research integrity** through a robust Departmental research infrastructure that is integrated with College- and Faculty-level policies and procedures.

Over the period of this REF, GHSM has made significant contributions to the sociology of health and health inequalities; the sociology of science, technology and medicine; and the sociology of ageing. GHSM promotes empirically grounded, and conceptually and methodologically rigorous sociological research that addresses vital social and ethical problems in global health and social medicine. GHSM spans qualitative and quantitative approaches, emphasising new ways of working to involve user groups in defining the goals, methods and approaches of research, ensuring research has a positive impact on end users, and pioneering advanced longitudinal, quasi-experimental methods to evaluate the causal impact of social policies.

Each strand of GHSM's strategy is described below.

1.2.1 Nurturing a vibrant and supportive research culture

Initiatives and infrastructure at Departmental and College level to support research activities (see Section 3) underpin an impressive increase in research income for UoA 21 – from £35k per FTE per year in HESA grant return income in 2013/14 to £63k per FTE per year in 2019/20 (see Section 3). Project funding has enabled us to grow GHSM's community of postdoctoral researchers and postgraduate researchers (PGRs), thus increasing critical mass in GHSM's four main areas of concentration and providing platforms for early career researchers (ECRs) to develop their own research trajectories.

All research staff, PGRs and visiting scholars are affiliated to at least one research group in GHSM. There is considerable cross-group collaboration, and activities to support research excellence are organised at both group and Departmental level (see Section 2.2). GHSM also acts as a hub for a larger group of health-related sociologists across King's via GHSM's affiliates scheme, through workshops, events and research activities.

The vibrancy of GHSM's research is best illustrated with examples drawn from its four research groups:

The **Ageing and Society Research Group** (led by Avendano) is pioneering the use of advanced quantitative methods that link longitudinal data to social policy to assess how government

institutions shape individual experiences of ageing and health in the UK and Europe. Two large international research projects (both with full values of over £5M) funded by European Commission (EC) Horizon2020 highlight this work:

- Mindmap –creating a unique data infrastructure of ageing studies in more than 12 cities across Europe, the USA and Canada, linked to key urban policies and environmental factors, for example investigating the impact of urban transportation policies on the mental health of older people (Avendano);
- Lifepath – using data from 1.7 million individuals in 48 cohort studies to show that the years of life and disability lost to poor socioeconomic circumstances are comparable to or greater than those lost to smoking, hypertension, obesity or diabetes (Avendano).

Key strategic goals include:

- a) developing a global data infrastructure for comparative research on ageing across countries and cities, building on Mindmap and Lifepath;
- b) generating data infrastructure to study the impact of public policies for ageing societies across Latin America and Asia;
- c) establishing a programme of research on the implications of demographic and social change for connections across generations and perceptions of intergenerational fairness and solidarity.

The **Biotechnology and Society Research Group** (led by Hinterberger and Camporesi) investigates the social, ethical and legal questions arising from emerging and digital biotechnologies.

Key achievements include contributions to:

- examining how human organoids and interspecies chimera are redrawing the limits and boundaries of the conceptualisation of the ‘human’ in biomedicine (Hinterberger);
- investigating emerging digital and medical technologies and their impact on changing landscapes in healthcare, precision medicine and forensic medicine, pregnancy and childbirth (Prainsack, Samuel, Camporesi);
- elucidating the process of regulation of pharmaceutical innovation, safety and cost-effectiveness (Abraham, Davis); and understanding medicines’ regulation with patient and consumer health groups across the EU (Davis);
- establishing the Foresight Lab on responsible research and innovation, funded through the EC’s €1.3billion (full value over 10 years) flagship Human Brain Project (HBP) (N. Rose, Aicardi, Mahfoud (leaver), Datta (leaver)).
- identifying global fertility chains (Parry, Prainsack, Vertommen (leaver));

Key strategic goals include:

- a) establishing GHSM as the UK reference point for sociology and science and technology studies of the ‘human’ in biomedicine and biotechnology;

- b) consolidating existing expertise on digital technologies and artificial intelligence to become the UK reference point for the ethical and social evaluation of big data in healthcare and neuroscience;
- c) pioneering ethical analysis on synthetic embryos, organoids and human/animal chimeras and their potential as a complementary model to animal research ethics, which is in need of a clear ethical and regulatory framework.

The **Culture, Medicine and Power Research Group** (led by Caduff) undertakes high-quality interdisciplinary research on the social, cultural, political and historical dimensions of health and illness, aiming to reframe public debates and inform policy-making.

Key achievements include:

- co-leading research programmes on mental and physical health in Palestine and sub-Saharan Africa (Kienzler, Patel, Kelly) funded by major grants from the RCUK GCRF and NIHR;
- leading major Wellcome-Trust-funded projects to improve the accessibility of cancer care in India (Caduff) and examine non-communicable disease interventions in sub-Saharan Africa (Reubi), focusing on health initiatives to control the smoking epidemic;
- formulating emergency outbreak research and response protocols (Kelly) and studying the social and political drivers of infectious diseases, including emergency outbreak response in sub-Saharan Africa (Kelly); pandemic preparedness in the USA and India (Caduff); drug discovery for HIV, TB and malaria in South Africa (Pollock); and vaccine development in the USA (Jain).

Key strategic goals include:

- a) extending research on inequality and social justice through the Global Social Medicine Network, by consolidating strategic academic partnerships between the global North and South, with the aim of re-imagining and decentering social medicine through engagement with traditions of social medicine outside the global North.
- b) collaborating with non-academic stakeholders (e.g. Médecins sans Frontières) to rethink how we pursue 'health for all' as a collective global project in the wake of new and emerging planetary threats such as SARS-CoV-2, which clearly demonstrate that individual and societal health cannot be understood outside socio-cultural framings, economic vulnerabilities and socio-political strategies;
- c) consolidating and expanding a social science research programme on cancer in South Asia and sub-Saharan Africa to improve accessibility and affordability of cancer care in low- and middle-income countries.

The **Mental Health and Society Research Group** (led by N. Rose) undertakes sociological and ethnographic research to transform dominant individualist biomedical approaches to mental health. The goal of the group is to underpin public policies to mitigate the 'social gradient' that characterises the distribution of both 'common' and 'severe' mental disorders.

Key achievements include:

- bringing sociology together with health disciplines through the recently awarded ESRC CSMH (first phase 2020–24, Co-Director: N. Rose, Co-Is: Manning, Avendano, Kienzler, D. Rose and Dowd (leaver));
- leading an interdisciplinary research programme funded by the Wellcome Trust on Mental Health, Conflict and Justice (Kienzler, full value £1.9M) in the UK, Palestine and Ghana.
- pioneering ‘ecosocial’ theoretical approaches to lived experience of mental distress, using innovative research that combines ecological momentary assessment with GPS mapping of experiences, digital diaries and deep ethnographies (N. Rose and D. Rose);
- demonstrating the mental health impacts of early-life adversity (Read, Pentecost);
- critically examining the implications of social neuroscience (N. Rose);
- leading the ESRC-funded Urban Brain Lab on conceptual and empirical research with migrant communities in emerging megacities (Béhague, Manning, N. Rose);
- developing the international Neuroscience and Society Network (N. Rose, Mahfoud, McLean), funded by the European Science Foundation (N. Rose, McLean, Mahfoud (leaver)), bringing together psychiatric practitioners and researchers from the social and human sciences, with a recent focus on developing new interdisciplinary understandings of the effects of psychoactive substances and of the roots of opioid addiction in social despair.

Key strategic goals include:

- a) doubling the generous initial ESRC funding for the CSMH, consolidating GHSM’s role as an international centre of innovative social science research on the impact of major social, economic and demographic transformations on mental health;
- b) shifting public debate about mental health away from a focus on individualised interventions toward an approach grounded in ‘social medicine’ that prioritises the social practices and policies that promote and sustain good mental health;
- c) generating new and powerful research paradigms based on an ecosocial approach to mental distress and mental well-being that can influence social, human and medical sciences beyond mental health.

1.2.2 Building major, interdisciplinary international collaborations

A core GHSM strategy, since inception, has been to traverse disciplinary boundaries and global spaces and develop ambitious, interdisciplinary collaborations within and beyond King’s. These research collaborations provide critical opportunities for stimulating conceptual and methodological advances in sociological research, while simultaneously enhancing sociology’s influence in the fields of global health and medicine.

Since REF2014, our success in attracting external grant funding (see Section 3) has facilitated exciting new collaborations with researchers across the globe: in South Africa, Sierra Leone, Kenya, the Ivory Coast, Palestine, Brazil, India, China, the USA, Canada, Australia and a number of European countries (see Section 4). GHSM leads several international networks of sociologists and related disciplines that aim to increase social science capacity and advance sociological theory and methods in global health and social medicine, for example a project delivering

qualitative methods training for health science students in Sierra Leone (Kelly); and GHSM's Global Social Medicine Network noted in Section 1.2.1, which involves scholars from across the world (see Section 4) organising workshops, conferences and exchanges to support capacity-building in social science.

Large-scale, international collaborations include:

- ESRC CSMH (see Section 1.2.1) – a collaboration between GHSM and the Institute of Psychiatry, Psychology and Neuroscience (IoPPN), with partners in the USA, Canada and Germany;
- R4HC-MENA – a £6M RCUK GCRF project that has influenced health research in settings of war and conflict through capacity-strengthening for research methods that generate locally relevant and much-needed health research and evidence, with partners in Jordan, Lebanon, Palestine and Turkey (Kienzler, Patel).

GHSM is a leader in cross-faculty research, with King's funding initiatives (e.g. King's Together Awards) that further accelerate interdisciplinary collaborations across the College. Since 2016, GHSM has been awarded £253,919 for nine King's Together Awards to pump-prime collaborative projects, many of which have resulted in further large-grant, external funding. For example, the R4HC-MENA project noted above was based on previous collaborations between GHSM, King's Health Partners, the Department of War Studies and the African Leadership Centre. Similarly, CSMH built on multiple earlier collaborations between GHSM and IoPPN, for example through research grant support awarded to N. Rose by the Faculty Research Fund (since 2015, GHSM has received nine awards to support research grant development from this fund, totalling £89k).

GHSM collaborates with the Centre for Medical Law and Ethics, to understand the legal and ethical consequences of developments in biomedicine and biotechnology; with the Departments of Political Economy and International Development, to examine ethics and governance of assisted reproductive technologies in India and the Middle East; with the IoPPN to understand the impact of poverty reduction programmes on the mental health of young people in Africa and Latin America; and with the Health Schools, to understand the mechanisms of ageing and improving health-span.

1.2.3 Achieving societal impact

GHSM places great emphasis on policy-relevant and socially engaged research with the involvement of users and key partners to benefit society. We collaborate with diverse non-academic stakeholders, governmental and non-governmental organisations, social policy professionals, planners and regulators, and lay communities. Engagement and impact activities are supported by resources and staff at Departmental, School and Faculty levels (see Section 3).

Notable examples of impacts of GHSM's research during this REF cycle include:

- Strengthening early biomedical and public health research by embedding ethical, locally relevant and culturally sensitive approaches to:
 - the design of research, response protocols and interventions during infectious disease outbreaks (Kelly, Rid (leaver) in the Ebola outbreak, Kelly in the Zika outbreak);

- public health research in conflict and post-conflict settings (Kienzler).
- Strengthening the ethical, legal and scientific regulation and use of biomedical, reproductive and neurotechnologies by:
 - working within the EU's flagship Human Brain Project to embed principles of responsible research and innovation within the project, and develop and implement world-leading practices for data protection and governance (N. Rose);
 - engaging with regulators, civil society groups and patients to influence WHO recommendations on the inclusion of new cancer drugs in its Essential Medicines List (Davis's impact case study);
 - providing expert advice and evidence to Baroness Cumberlege's Independent Inquiry on Review of Medicines and Medical Device Safety (Abraham);
 - working with policy-makers, legislators and lawyers to shape the regulation of assisted reproductive technologies in the UK and India (Parry), providing expertise to the World Anti-Doping Agency (WADA) (Camporesi);
 - working with the United Nations and other international bodies to secure compliance with international treaties on biological weapons programme (Lentzos's impact case study).
- Improving clinical practice and patient care by:
 - collaborating with under-represented patient groups (dementia support, mental health service users, Black, Asian and Ethnic Minority (BAME) and homeless service users), to place the patient and user's voice at the centre of clinical and social services, including working with Service User Research Enterprise (SURE) (D. Rose) and developing strategies for addressing the poverty and temporary homelessness of patients receiving cancer care in India (Caduff);
 - working with policy-makers to improve the quality of long-term care in both urban and rural regions in China (Yang);
 - developing context-sensitive mental health diagnosis and treatment in Brazil, Palestine, Ghana and Nepal (Béhague, Kienzler, N. Rose, Rose-Clarke);
 - working with regulators and politicians to improve detection of poor-quality healthcare (Rothstein and Demeritt's impact case study).
- Influencing public policy on the social determinants of health by:
 - evaluating the impact of old-age public policies (retirement, long-term care, social protection) on the health and well-being of older people (Avendano, Glaser, Tinker);
 - advising governments and other organisations on designing mental-health-friendly and age-friendly cities in Brazil, China, the UK (Manning, N. Rose, Tinker) and Europe (Avendano);
 - working with local governments to address young people's mental health in the design of anti-poverty policies in Latin America and Africa (Avendano, Kelly).

- Developing innovative strategies for public engagement through public exhibitions, art and other social media, for example collaborating with artists and community members in public-facing science communications, serving as Advisors at Science Gallery London, exploring the themes of GENDERS (Pollock) and Artificial Intelligence (Aicardi).

To further strengthen societal engagement and impact, the Department is running a suite of training sessions and workshops to aid GHSM and affiliated researchers in planning, evaluating and evidencing impact throughout the research lifecycle. We will continue to provide financial and other support for impact activities at Departmental, Faculty and College level, with impact leads and advisors continuing to work with researchers on projects from early stage planning through to project completion and dissemination.

1.2.4 Assuring research integrity and open access compliance

Research quality and integrity is assured through mentoring, review and leadership from senior faculty. Research Integrity Champions at Faculty level act as a visible point of contact for researchers (see REF5a). King's is also a signatory to the Concordat for Research Integrity (2019), and has governance structures in place to ensure that research and the dissemination of the results of research are conducted properly: all human subject research is subjected to an appropriate level of ethical scrutiny, and fieldwork conducted in pursuit of research is also subject to full health and safety review through a Safety Committee at Faculty and College level. In addition to a Research Integrity Officer (Kelly), GHSM staff are active members on the Social Sciences, Humanities and Law Research Ethics Subcommittee. Tinker, a renowned specialist on university research ethics committees, is Ethics Champion for GHSM, providing staff and students with research ethics advice.

Open Access is centrally supported by a block grant that enables any member of staff whose research is funded by RCUK/COAF to publish in fully open access journals.

2. People

GHSM's people strategy centres around three core principles:

- recruiting outstanding scholars at all levels;
- building an environment that supports rapid and continued development of GHSM students and staff;
- creating an ever more inclusive, diverse and supportive research environment.

2.1 Recruiting outstanding scholars

Since REF2014, the department has continued to recruit scholars of international standing at Reader and Professorial level (57% submitted staff FTE are non-UK), including in science and technology studies (Hinterberger, Jain, Pollock) and in the consequences of social policies and programmes for physical and mental health (Avendano).

GHSM has attracted ECRs with impressive research profiles (McLean, Reubi, Pentecost, Rose-Clarke, Wester, Yang) in strategically important areas, notably in history and philosophy of science and medicine, global health governance, science and technology studies, global mental health, and social care policies for older people in low- and middle-income countries.

GHSM's international reputation also attracts ECRs holding prestigious international fellowships in key areas, such as the political economy of assisted reproduction (Vertommen (leaver) and Lucivero (leaver), both Marie Curie Research Fellows.

2.2 Developing GHSM's people

2.2.1 Training, supervision and support of postgraduate research students

Since REF2014, GHSM and associated academics have recruited 94 PGR students to doctoral studies at King's, of which 43 were awarded PhDs (in comparison to 18 PGRs in the previous REF). Most PGRs are supported by funded studentships (ESRC +3, and 1+3), awards from charities (e.g. Fulbright, Wellcome Trust and Dunhill Trust) and overseas governments (e.g. CONYACT Chile, Mexico and Colombia), and prestigious College scholarships (e.g. King's China Scholarships).

GHSM has a number of specific mechanisms in place to support PGRs:

- The ESRC-funded London Interdisciplinary Social Science Doctoral Training Pathway (LISS DTP), led by King's College, in partnership with Imperial College London and Queen Mary University of London, provides studentships in the social sciences, allowing students to work with some of the world's leading experts in areas that include health, well-being and social inclusion, a key area of focus in GHSM.
- PGRs have at least two academic supervisors, both of whom are required to complete supervisory training to ensure that they provide high-quality support. A Departmental PGR committee led by the PhD Tutor oversees PGR progression. PGRs are subject to bi-annual Progress Reports; permission to proceed to the next year is dependent on successful completion of requirements (Year 1: *Aims and Methods* essay; Year 2: 3 chapters and a thesis plan examined by viva for upgrade to PhD). The Faculty Associate Dean (Doctoral Studies)

oversees this process, and students with concerns about supervision, funding or pastoral care can contact her directly.

- GHSM has its own Doctoral School, funded by the Department, which includes seminars, workshops and writing retreats: providing venues for students to discuss and share their work; facilitating collaboration across research fields; offering bespoke methods training and research community building; running an annual writing retreat and a three-day master class with leading international scholars (e.g. Professor Landecker, University of California, Los Angeles); and organising workshops on teaching, writing, publishing strategies, grant applications and job applications. The Department supports fieldwork and conference attendance for PGRs through a dedicated fund (with up to £500 per year available to students).
- All PGRs are assigned to a Research Group that provides further specialised support and training, and via roundtables, reading groups and/or seminars where researchers and PGRs can present early drafts of their work. PGRs are also provided with teaching opportunities, by acting as graduate teaching assistants (GTAs). In addition to Departmental training, the King's Academy offers a GTA Development Programme and Higher Education Authority (HEA) recognition for GTA accreditation.
- At College level, the recently established Centre for Doctoral Studies aims to ensure that all PGRs, regardless of funding from across the institution, have a 'DTP-like' experience, benefiting from a range of tailored training courses and initiatives, as well as bespoke support and networking opportunities. GHSM contributes several advanced intensive research methods modules, including one-week intensive modules in *Data Management and Manipulation* and *Researching Vulnerable Populations*.

The successful management and support provided to PGRs is evidenced through the high completion rates (with 100% completion within 5.5 years among entrants to the GHSM doctoral programme from 2012/13–2015/16) and prestigious prizes received by some students, including:

- First Prize in the ESRC's 50th Anniversary Celebrations Essay Competition (Fletcher);
- Dan David Prize for Bioethics in 2018 (Cavaliere);
- Young Scientist Awards at the World Association for Medical Law (Diedericks).

GHSM doctoral training has contributed to work being published in leading academic journals including *Sociology of Health & Illness*, *Ageing & Society*, *Social Science & Medicine*, *Journal of Medical Ethics*, *Journal of the Royal Society of Medicine*, *Health Care Analysis* and *Medical Anthropology Quarterly*.

Many former doctoral students are now in academic, postdoctoral or other academic-related positions at universities in the UK and abroad (e.g. King's College London, University of Edinburgh, University of Essex, Lancaster University, Stockholm University, McGill University (Canada), Universidad San Francisco de Quito (Ecuador)), in senior research positions in NGOs (e.g. Alzheimer's Society) or in leading academic positions globally (e.g. Dean of Faculty of Economics and Finance at ICESI University, Cali, Colombia).

2.2.2 Developing and supporting all staff

Policies and mechanisms that develop and support staff at all levels are highlighted:

- **Developing ECRs.** At GHSM we develop ECRs (25% of submitted staff FTEs are ECRs) through careful evaluation and mentoring of publication strategies and research plans through annual reviews by senior academic staff. Additional professional development support for research staff is provided by the King's Centre for Research Staff Development (CRSD). The College also provides a wide range of bespoke mentoring schemes and programmes to support early career researchers in the crucial transition phases of their careers, as well as more targeted schemes including the cross-institutional B-Mentor programme for BAME academics and postdoctoral researchers.
- **Actively promoting all staff.** All staff are allocated to a senior academic responsible for overseeing their academic development through annual reviews, identifying support and access requirements, reviewing publication and grant strategies, and career development options. GHSM also has an Academic Performance Framework that provides clear merit-based pathways to promotion. This strategy has led to internal promotion successes during the REF period, including two promotions to Professor (Avendano, Glaser), five promotions to Reader (Béhague, Caduff, Davis, Dowd (leaver), Kelly) and four promotions to Senior Lecturer (Behrouzan (leaver), Camporesi, Corna (leaver), Kienzler).
- Staff also benefit from **wider staff development opportunities** within the College, including the King's Leading Researchers Programme, designed to support rising stars. Both Dowd (leaver) and Kienzler have benefited from the programme.
- **Equity in loads, protected research time and use of GTAs.** GHSM strives to achieve equity in loads across career stages, with a workload modeller that includes all teaching, research, administrative responsibilities, supervisory and leadership roles. To ringfence research time, GHSM employs GTAs to ensure that teaching loads are kept relatively low. Teaching and administrative responsibilities are covered for those staff who receive buyouts as part of their grant awards.
- **Encouraging and supporting** an inclusive research culture. As well as ensuring that research activity is explicitly factored into workloads via the workload modeller (noted above), recognising the time required to produce quality research output and research grant applications, GHSM also:
 - maintains a one-year-in-seven allowance for study leave, based on application, with a focus on large grant applications and publishing projects, reviewed on completion;
 - grants all staff access to a proportion of research overheads to fund research-related activity through a Faculty-run Principal Investigator Incentivisation fund that gives those with active grants up to £3000 annually to support research activities and scholarship: this can be used to support additional fieldwork, travel or subsistence costs; purchase of books or datasets; or employment of a research assistant;
 - gives all teaching and research staff conference allowances of around £1000 annually to support travel and accommodation associated with professional networking activities related to research dissemination;

- supports staff applications to the King's Undergraduate Research Fellowship scheme, which allows staff to employ undergraduates as researchers on a £1000 bursary: 11 awards have been made to GHSM since 2013–14, allowing developmental research to be carried out to the mutual benefit of students and staff;
- provides peer review and GHSM Grant Academy events for those making applications. Peer review of all grants more than £100,000 is mandatory at the College level, and mock interviews are conducted in support of these as appropriate. ECRs are encouraged to submit early drafts of applications to the Department's Grant Academy to receive detailed feedback.

2.3 Promoting equality, diversity and inclusion (EDI)

King's has active policies and mechanisms to ensure equality of opportunity for all to benefit from career development and research support in order to create an inclusive research environment. GHSM ensures that both staff and students are able to participate fully in the Department's research culture irrespective of disability, ethnicity, gender or caring responsibilities. The new EDI Strategic Plan enshrines equality of opportunity as a priority for the College.

The long-term commitment to EDI has delivered a more diverse research environment since REF2014. GHSM has appointed eleven HEFCE academic staff: eight women, two men and one non-binary. The UoA is also now majority women (65% of submitted staff FTE), including at senior levels. In the most recent recruitment round, Pollock successfully led an international search to diversify applicants. Pollock, a renowned scholar in the field of critical race studies, also leads a workstream on the Faculty's EDI committee focused on closing the BAME Achievement Gap, and has overseen student-led research (through nine Department-funded undergraduate Summer Research Internships last Spring) to map existing best practices at institutions across the UK and ways in which those can be implemented locally.

Since REF2014, the Department has introduced several practices and processes to empower individuals and to promote a more inclusive and diverse research environment:

- GHSM was a Gender Equality Charter Mark trial winner in 2014, achieving a Bronze award in recognition of its progress in advancing gender equality in the social sciences and reflecting the importance of gender diversity as a strategic priority.
- A Faculty Disability Liaison Officer works between the University Support Team, GHSM and students to ensure needs are identified and support is implemented. SSPP Disability co-Lead (McLean) is overseeing actions to address mental health needs amongst staff across Faculty.
- The Department recently created an Anti-Racism Steering Group. A key aim of the group is to improve BAME representation among its staff in accordance with the EDI Strategic Plan. Pollock is taking the lead on actions to ensure the ethnic diversity of GHSM staff reflects our student body (11% of submitted staff FTE are from BAME groups compared with 52% of King's undergraduates). The completion of advanced EDI training (currently in development, due to be launched in 2020–21) will become a criterion for career progression for all staff.
- The Department has policies and mechanisms in place to ensure equality of opportunity for all, such as a compassionate system of flexible working arrangements for staff (regardless of

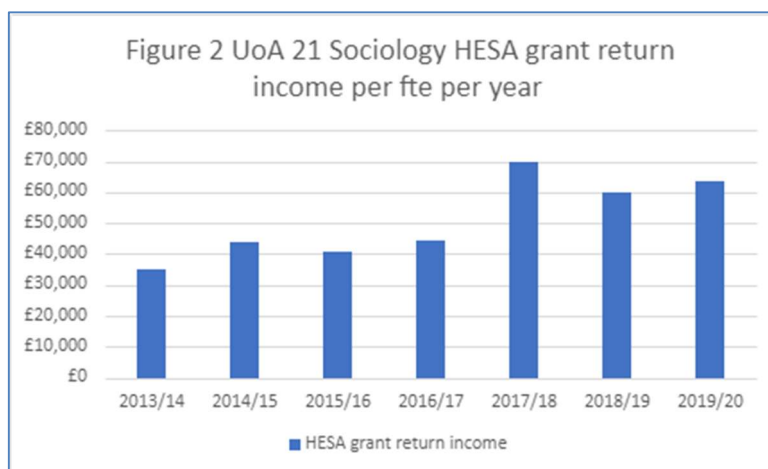
gender) with caregiving commitments and encouraging colleagues to keep meetings and other communications within core working hours.

Promotion requests are assessed by GHSM's Senior Management Team and all staff are considered for promotion once a year regardless of whether they have put themselves forward.

3. Income, infrastructure and facilities

3.1 Research income

The total funding secured by UoA 21 academics over the period amounts to £30.5M awarded to King's (£10.7M HESA grant return income; Figure 2 shows UoA 21 HESA grant income per FTE per year). Funding to each research group over the REF period is discussed below (highlighting notable grants not previously mentioned where HESA grant return income was £60k and above; grant income to King's presented).



3.1.1 Ageing and Society

Research funding of approximately £6.2M has been spread across three key priority areas:

- a. **Social policies, health and ageing:** ESRC Consortium Grant project showing how lifetime employment and family histories influence health trajectories and the decision to work in later life (PI: Glaser, Co-Is: Price (leaver), Corna (leaver), £617.8k); the Joint Programme Initiative (JPI) ESRC-funded project demonstrating the implications of increasing the state pension age on physical and mental health of older people (Co-I: Avendano, £193.4k); European-funded grants, including from the European Research Council (ERC) and the two Horizon2020 projects (see Section 1), demonstrating how economic recessions and social policies have long-lasting consequences for health in older age (PI and Co-I: Avendano, £705k).
- b. **The causes of inequalities in health and long-term care:** Co-leading a Wellcome Trust grant supporting the Twins UK Cohort Study, an epidemiological and genomic resource (Co-I: Dowd (leaver), £2.8M); leading an ESRC-funded project examining the health and well-being of grandparents caring for grandchildren (PI: Glaser, £156.8k).
- c. **Long-term and social care systems:** Two projects illustrate the group's research in this area: an open research agreement (ORA) ESRC-funded project showing how larger investments in long-term care systems lead to smaller socioeconomic inequalities in informal care across Europe, and how rules and regulations of eligibility for long-term care have profound implications for the mental health of older Europeans (Co-PIs: Glaser, Avendano, £486.5k); an ESRC-funded project using agent-based simulation methods to demonstrate how publicly funded long-term care insurance in China needs to be directed towards promoting and improving the availability of home-based care services to address inequities (PI: Yang, £227.2k).

3.1.2 Biotechnology and Society

In less than two years since the research group merged from two previous research groups (Biotechnology, Pharmaceuticals and Public Policy; and Biomedicine, Ethics and Social Justice),

the group has built a broad funding base, with £6.7M in research income in this REF period. Key areas include:

- a. **Ethical, social and legal approaches to biotechnology and biomedicine:** An EC-funded research project examining forensic DNA phenotyping, which is part of a consortium comprising partners from academic, police and justice institutions from eight European countries (PI: Prainsack, £244.4k); an ESRC-funded study exploring the socio-political dynamics of health technology assessment in relation to new drugs to treat diabetes (PI: Davis, £165.2k); an EC-funded project exploring the opportunities and challenges of risk-adapted approaches to regulating biomedical research (PI: N. Rose, Co-I: Rid (leaver), £176.3k). The group also provided key ethical input for the Twins UK Cohort Study (Co-I: Prainsack, £1.2M). The group has received several Wellcome-Trust-funded PhD studentships in these areas, for example in preimplantation genetic diagnosis and eugenics (PI: Prainsack), the ethics of synthetic embryos in Germany and the UK (Co-PIs: Camporesi, Hinterberger) and the construction of the environment in epigenetics research (PI: Prainsack).
- b. **Research on public policy and regulation:** Funds to introduce Responsible Research and Innovation (RRI) practices in the Imperial-College-led Innovation and Knowledge Centre (IKC) in Synthetic Biology, SynBiCITE (PI: N. Rose, £453.3k), and the establishment of the Foresight Lab at GHSM to create an integrated Social and Ethical Division. The Lab (directed by N. Rose) was funded by the HBP (£292.5k) and the HBP's Specific Grant Agreement 1 (£581.4k) and 2 (£538.7k).
- c. **Local and global impacts of biotechnologies:** A number of postdoctoral awards, including Marie Curie Postdoctoral Fellowships for exploring the ethical, social and political underpinnings of portable devices for healthcare (PI: Prainsack, Co-I: Lucivero (leaver), £172.8k), and for a project on global fertility chains (PI: Parry, Co-I: Vertommen (leaver), £122.9k).

3.1.3 Culture, Medicine and Power

The group has established a large funding base (£7M), in collaboration with King's Health Schools and Health Partners. Key areas include:

- a. **Mental health in conflict:** R4HC-MENA, a RCUK GCRF for research and capacity building on mental health in conflict-affected areas of the Middle and Near East (Co-PIs: Kienzler, Patel, £2.4M); NIHR for a Global Health Unit investigating the equity impacts of strengthening health systems in sub-Saharan Africa, particularly South Africa and Sierra Leone (Co-PIs: Avendano, Kelly, £2.9M).
- b. **Global health interventions, politics and practice:** Wellcome Trust Investigator Award for a project on cancer care in India (following an earlier Wellcome Trust award of £93.6k) examining whether oncology can be decentralised, standardised and digitalised for the benefit of patients (PI: Caduff, £867.1k); Wellcome Trust Fellowship for work exploring global health initiatives to control the smoking epidemic in sub-Saharan Africa (PI: Reubi, £183.2k); PI and Co-investigator roles on other collaborative projects, including from ERC to explore the role of diagnostic devices in transforming health systems in Sierra Leone (PI: Kelly, £86.5k).

3.1.4 Mental Health and Society

The group has a diversified funding base (£9M), working in close collaboration with other research groups:

- a. **Research on the social bases of mental distress in adversity:** Played a key role in obtaining funding for the £6.2M ESRC CSMH to support a 15-year programme of interdisciplinary research (see Section 1.2.1).
- b. **Engagement of mental health service user researchers:** D. Rose (CSMH Co-I) has led work to transform engagement of mental health service users in research and policy, and has taken the lead in user involvement in projects across King's, recognised through a Wellcome Investigator Award (£614.8k) for EURIKHA, a global research project to explore social movements that privilege the rights and perspectives of people with severe mental distress.
- c. **Urban mental health:** A grant from the ESRC/NSFC Newton Fund, for a study of mental health and migrant workers in Shanghai (Manning, N. Rose, £425.7k); extended to a further megacity through funding for FAPESP/King's Partnership Fund with international partners managed by Global Engagement for a study of mental health and migrant workers in São Paulo (N. Rose, Manning, Béhague, £531.4k for phase 1, £537.9k for Phase 2).
- d. **Critical study of mental health interventions:** Medical Research Council (MRC) research grant on group interpersonal psychotherapy for depression and anxiety among adolescents in rural Nepal (PI: Kelly, £125.4k).

3.2 Infrastructure and facilities

GHSM research activity is overseen by the Departmental Research Committee (RC), which includes representatives from each research group, the Grant Academy Co-ordinator, the Impact Lead, School-level professional staff specialising in research support, a representative of non-HEFCE-funded research staff and PGRs. RC provides financial support for each research group to run research-related events and seminars, and facilitates collaborations and global network-building activity. RC also offers seed-corn funding for novel research initiatives to encourage development of large-scale future grant applications.

3.2.1 Grant applications

Researchers are supported in the development and delivery of research grant applications by a network of interrelated expertise at King's-, Faculty- and School-level, which has been extensively developed since REF2014. This network provides colleagues with expert support for the whole lifecycle of the application-to-award process. It also links researchers with a wide variety of internal funding sources: Faculty Research Fund, King's Together Awards etc.

- The Senior Research Development Manager (SRDM) supports the development of high-quality grant applications by: raising awareness of programmes, opportunities and strategic fit; building capacity in core skills and confidence with different elements of research grants; commenting on proposals and providing funder-informed critical feedback; organising peer review across the Faculty; organising mock interviews and selection panels; liaising with representatives from key funding agencies to understand their upcoming priorities and to advocate our own.

- The SRDM works closely with the Faculty Research Manager (FRM) and the Vice-Dean (Research). The FRM holds a budget for research development activities, both regular (the annual Faculty Research Fund, £150–170k per year, to support new grants and networks/collaborations) and ad hoc (in response to specific external opportunities, or to support interview preparation, etc.). The FRM leads the network of locally based professional research support colleagues in Schools and Departments. School Research Managers support application delivery, including costings, sign-off/approval and submission via funder portals.
- At Department level, GHSM's termly Grant Academy assists in pre-grant development of funding applications, especially for ECRs. Monthly department research seminars support the presentation of research in progress and encourage lively critical debate between members of different research groups.

3.2.2 Impact

Research impact is supported at University (see REF5a), Faculty (e.g. Faculty Impact Support Fund, £100k per year), School and Department level (e.g. GHSM Impact Support Fund) and through bespoke training offered by the Policy Institute at King's.

GHSM's impact lead is responsible for impact activities, including REF impact case studies, the organisation of departmental training to increase impact literacy, and providing one-on-one support to colleagues in planning, realising and evidencing impact.

A School Policy and Engagement Manager also supports impact by targeting press releases, publicising research via social media and assisting with networking events to identify opportunities for translational research.

4. Collaboration and contribution to the research base, economy and society

4.1 Research collaborations, networks and partnerships

GHSM's links with international academic partners support research collaboration and educational exchange, including:

- Avendano's adjunct appointment at Harvard University involving collaboration on a USA National Institute on Ageing (NIA) grant on the role of social policy in explaining diverging trends in life expectancy;
- Abraham and Davis's collaboration with scholars from Universities of Sydney, Copenhagen, British Columbia and George Washington on international drug safety policy;
- Davis's work with US colleagues on the social, ethical and health implications of scientific standards for regulating new cancer medicines, and on the adequacy of information for cancer patients, and with Dalhousie University, Canada, on clinical trial data transparency policies in Europe and North America;
- Jain's extensive collaboration with colleagues at the University of Wisconsin on research into the history of vaccine development and animal research in Liberia.

Established partnerships with European universities include:

- Avendano with Erasmus University Rotterdam in the Netherlands, involving joint co-ordination of the Mindmap project and collaboration in the Worklong and Lifepath projects on the impact of public policies on mental health and healthy ageing;
- Glaser and Avendano with the Vrije Universiteit Amsterdam involving long-standing collaborations on long-term care use and the association between care use and health;
- N. Rose with colleagues in Denmark, including Aarhus University, where he is Visiting Professor.

Partnerships with strategic regional partners in Brazil, China, Colombia and India include:

- Béhague's long-standing collaboration with the Federal University of Pelotas in Southern Brazil on a unique interdisciplinary epidemiological birth cohort;
- Yang's work on long-term care financing in China with colleagues in Fudan University, China;
- N. Rose and Manning's research on urbanicity – the connections between the social and the neurological lives of urban citizens, with particular attention to mental health – with academics at the University of São Paulo Medical School, Brazil, and Fudan University, and with colleagues at the Institute of Social Medicine, State University of Rio de Janeiro, Brazil.
- Avendano's research on mental health and poverty in Colombia (University of Los Andes) and Brazil (University of São Paulo), to examine the impact of cash transfer programmes on the health of young people. Fairley-Murray's links with colleagues in Jawaharlal Nehru University investigating the drivers of the contemporary global healthcare economy and its domestic effects in emerging economies;

- Caduff's involvement in research on cancer care with the Tata Memorial project in Mumbai to analyse the emergence of the National Cancer Grid of India as a powerful new actor that seeks to redraw the map of cancer care in India.

GHSM is also developing a focus on the Middle East, with Kienzler's work with colleagues at Bierzeit University on mental health in Palestine.

It is expanding its reach into sub-Saharan Africa, with strong ties to the University of Cape Town through Reubi's work on the cartographies of cancer care in Africa, involving colleagues in the African Cancer Registry Network, Kenyan Medical Research Institute and the Ministry of Health, Ivory Coast; Pentecost's participation in the Medical Health Humanities Africa collaboration with University of Cape Town and Stellenbosch University; and Avendano and Kelly's work in Sierra Leone and with several universities in South Africa.

4.2 Relationships with key research users, beneficiaries or audiences

GHSM staff are outward-looking and concerned with issues of social justice in relation to social, economic and health challenges around the world and determined to make a difference. Most of GHSM's work is 'applied', making a significant contribution to policy, addressing the challenges of ageing populations, etc. This is manifest in that members of GHSM play active roles as advisors to governments, NGOs and other health-related organisations worldwide. Notable examples include:

- international civil society, especially NGOs and the UN family:
 - Avendano: expert advisor on the relationship between ageing, health and work, for the WHO Observatory of Health Systems;
 - Kelly: member of WHO's Scientific Advisory Group in Emergencies (SAGE) Working Group on Ebola Vaccines and Vaccinations;
 - Lentzos: author of numerous reports and policy briefs for international organisations, including the: WHO Health Security Interface Technical Advisory Group; UN Institute for Disarmament Research (UNIDIR); the Women's International League for Peace and Freedom;
 - Camporesi: provides expertise as a member of WADA Expert Ethics Advisory Group;
 - N. Rose: advised the OECD and officials of the EC on the regulation of the dual-use potential of emerging neurotechnologies;
 - Patel: expert advisor to the International Committee of the Red Cross (ICRC), providing recommendations on securitisation of aid by the UK and its impact. She is also an expert advisor for Global Fund for AIDS, TB and Malaria on Defining its Support for Resilient and Sustainable Systems for Health (RSSH) in Challenging Operating Environments (COEs);
 - Davis: advises European consumer health advocacy groups, including the European Public Health Association (EPHA), the EU Consumers Association (BEUC) and Health Action International (HAI) on issues related to the early licensing, accessibility and cost-effectiveness of new medicines in the EU. She is also a member of the European Medicines Agency's Patient and Consumer Working Party, and acted as panel chair for a high-level policy retreat attended by members of the European Parliament, leaders of

national ministries of labour and health, and EU medicines regulators on the affordability and access to medicines debate in Europe organised by the Open Society Foundation and the European Public Health Alliance (2018);

- Prainsack: member of the European Group on Ethics in Science and New Technologies (which advises the European Commission) and an elected member of the Academy of Europe, which promotes European research and advises governments and international organisations in scientific matters;
- Abraham: expert advisor to SPG Law International on drug safety regulation in the UK, the EU and the USA, and has chaired workshops of the Open Society Forum in New York on new models of pharmaceutical innovation.
- national government departments and agencies, including those from overseas governments:
 - **USA:** Avendano was a member of the MacArthur Foundation Network for an ageing society, which promoted policy options to respond to the ageing of the US population;
 - Hinterberger worked on recommendations for US National Institutes of Health (NIH) research regulation as a member of its Actionable Ethics Oversight for Human–Animal Chimera Research working groups;
 - **Canada:** Tinker is appointed by the National Research Council of Canada to advise on their Ageing in Place Challenge Programme;
 - **UK:** Abraham worked with the Cross-Party House of Commons Parliamentary Group on Hormone Pregnancy Tests, and provided public expert advice and evidence to Baroness Cumberlege's Independent Inquiry on Review of Medicines and Medical Device Safety;
 - D. Rose served as Co-Chair for NICE GUIDELINE 136 on improving the experience of service users in NHS Mental Health Care;
 - Prainsack is a member of the Ethics Group of the UK National DNA Database (NDNAD);
 - **Austria:** Prainsack was elected to the board of the Austrian Platform for Personalised Medicine and the Austrian National Bioethics Commission;
 - **Norway:** Wester is a member of an expert committee to support the Norwegian Institute of Public Health in advising the Norwegian government on the allocation of the corona vaccine;
 - **Sweden:** Davis worked with the Swedish National Audit Office as part of their 2016 investigation into how the Swedish government manages pharmaceutical industry influence over drug regulation and its knowledge management;
 - **China:** Yang is on the expert panel to review the performance of a pilot on long-term care insurance in Qingdao – the first such scheme in the country;
 - **India:** Parry advised the Indian Department of Health on how to reduce exploitation of vulnerable consumers and producers of fertility services and cancer care respectively.
- local actors, including national NGOs community groups, local government and business:

- Glaser: has close links with Grandparents Plus and AgeUK on grandparents and long-term care;
- Avendano and Glaser: the Pensions Policy Institute, Centre for Ageing Better and Age UK on extending working lives;
- Patel: member of the Global Health Advisory Board at the Royal Society of Medicine and Strategic Advisor to Save the Children and Merlin;
- D. Rose: works closely with mental health service users in the UK (National User and Survivor Network) and internationally;
- N. Rose: works closely with the Thrive organisations for urban mental health, including Thrive London.

More widely, many members of the UoA are active in disseminating research through both traditional news media and social media. Notable appearances in television documentaries, news and radio programmes include:

- Abraham on pharmaceutical safety in Sky TV documentaries;
- Béhague on BBC Radio 4 exploring the medicalisation of mental illness and the influence culture has on mental health, and on the BBC World Service debating issues of psychiatry and culture with Vikram Patel;
- Lentzos on NBC and Channel 4 news on the Wuhan lab coronavirus theory and participating in the BBC4 TV documentary on secret weapons research at Porton Down as well as on BBC Radio 4's *Inside Science* and BBC World Service's *The Science Hour*;
- print coverage, for example comments on: unretirement (*Daily Telegraph*, *The Times*, *The Sun* and *Financial Times*) (Glaser); new cancer drug approvals (*The Independent*, *The Guardian*, *Daily Mail*, *The Sun*, *Telegraph*) (Davis); and biosecurity (*Daily Telegraph*, *The Atlantic*, *Der Spiegel*, *New Scientist*, *The Irish Times* and *Newsweek*) (Lentzos).

4.3 Wider activities and contributions to the research base, economy, and society

In addition to providing research that supports policy-making in the UK and beyond, GHSM's researchers make significant contributions to sociology and cognate academic disciplines, not only through their research outputs but through wider service to professional societies, stewardship of journals, peer-reviewing, conference organisation and keynote contributions to conferences, as well as collaborations with researchers from other institutions. Given the interdisciplinary nature of much of GHSM's work, these contributions are also interdisciplinary:

- **Journal editorships and editorial boards:** Staff edit, or have edited, leading sociology, gerontology, science and technology journals as well as academic health and medical journals including: *Economy and Society* (Parry, Co-Editor; N. Rose, Editorial Board); *BioSocieties* (N. Rose, Founding Editor; Lentzos and Pollock, Associate Editors); *Science, Technology and Human Values* (Pollock, Editorial Board); *Social Science and Medicine* (Avendano, Advisory Editor); *Journals of Gerontology: Series B* (Glaser, Editorial Board); *Journal of Epidemiology & Community Health* (Avendano, Associate Editor); *Global Mental Health* (Béhague, Editorial Board); *Journal of Mental Health* (D. Rose, former Editor); *Catalyst: Feminism, Theory,*

Technoscience (Pollock, Lead Editor Team); *Journal of Medical Ethics* (Parry, Co-Editor); *International Review of Psychiatry* (D. Rose, Editorial Board).

- **Services to professional associations or learned societies of sociology and cognate disciplines:** Acting as co-convenors 'STS for pharmaceuticals and public health policy' stream at 4S/EASST Conference (2016) (Davis, Abraham); Co-convenor, BSA Sociology of Mental Health Study Group, 2019 onwards (Manning); Secretary of the Royal Anthropological Institute Medical Anthropology Committee, and the Geography of Health Research Group, Royal Geographical Association, London (Reubi).
- **Peer-reviewing and support to Research Councils:** Staff are heavily involved in the refereeing of research council grants, serving in multiple Research Council Panels and committees, including the ESRC's Peer Review College (Glaser), the Joint Health Systems Research Committee at Wellcome/ESRC/MRC DfID (Fairley-Murray), the ESRC's Research Methods Development panel (Avendano); the French National Research Agency (ANR) panel for public health funding (Avendano); and in-person review panels for the US National Science Foundation (Pollock).
- **Conference organisation and research-based Continuing Professional Development:** Faculty have been active in organising conferences and workshops for, and on behalf of, professional and learned societies, for example: the Global Social Medicine Conference (N. Rose, Caduff); an international conference on Global Ageing with the Royal Society of Medicine (Glaser); an international conference on Race and Biomedicine Beyond the Lab (Pollock); and events organised with the British Sociological Association (e.g. Society and Neuroscience, planned for October 2020 postponed due to COVID) (N. Rose).
- **National and international networks:** The Global Social Medicine Network (see Section 1.2.2) (N. Rose, Caduff, Pentecost) is revitalising work in the interdisciplinary field of social medicine across the global North (e.g. Harvard University, Johns Hopkins University) and the global South (e.g. Jawaharlal Nehru University, Universidade do Estado do Rio de Janeiro). Other important networks include the Neuroscience and Society Network (N. Rose, Mahfoud, McLean, Ermansons), noted in Section 1.2.1.
- **Keynotes:** As well as keynotes in the UK, GHSM academics have delivered many invited international keynotes. Notable examples include: Avendano, 'Can social policy reduce inequalities in mental health?' at the National Academy of Sciences (France) and Karolinska Institute (Sweden); Caduff, 'In the Name of the Next: Notes on a Political Imaginary', McGill University, Canada; Lentzos, US State Department conference on biosecurity, Kuala Lumpur, Malaysia; N. Rose, invited keynotes at Aarhus University, University of Vienna, Australian National University and the University of Melbourne, State University of Rio de Janeiro, the Universities of Valparaiso and Talca, Santiago, Chile, and the Holmes Lecture at the University of McGill, Canada; Jain, University of California; Irvine, L' Ecole des Hautes Etudes en Sciences Sociales, University of Pennsylvania, Rice University, University of Chicago, Haus der Kulturen der Welt, Berlin, and Medellin, Colombia; Abraham, 'Convergent corporate bias: pharmaceuticals and public health policy' for 'Pervasive Powers' International Conference, Dauphine University, Paris; Fairley-Murray, global governance and health at Jawaharlal Nehru University, New Delhi, India; Tinker, evidence on long-term care to the Health Committee,

Northern Ireland Assembly, and address on age-friendly cities at the Greater London Assembly Older People's forum.

- **Awards:** Jain received the Wenner Gren Research Award 2019, June Roth Memorial Award for a Book in Medical Writing 2016, American Society of Journalists and Authors 2016 Fleck Prize; N. Rose received honorary doctorates from Aarhus University, Denmark, and University of Sussex; Glaser, Manning, N. Rose and Tinker are elected fellows of the Academy of Social Sciences; N. Rose is an elected foreign member of the Danish Royal Academy of Sciences and Letters, and an elected Fellow of the British Academy, the Academy of Social Science and the Royal Society of Arts.

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