

# Wolfson Research Institute for Health and Wellbeing



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Annual Report 2020

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## Message from the Executive Director

Greetings and welcome to the 2020 Annual Report for the Wolfson Research Institute for Health and Wellbeing here at Durham University. It has been a year like no other with COVID-19 changing not only our working practices but our lives in general. The impact on our health and wellbeing from an individual to societal level has been immense, with effects that will be felt for many years to come.

Despite this, our fellowship has risen to the challenge. Some of these actions were acute; Camila Caiado (Mathematics) and Brian Castellani's (Sociology) understanding infection rates, illness and death data led to better modelling and preparedness for our region, or Douglas Davies (Theology) of the Centre for Death and Life Studies discussing Grief in the time of Corona at the Durham Book Festival. Many of our academy have embraced the virtues of working and presenting their work online, with bumps in meeting attendance and audiences for lectures and seminars

Academic reactions to the crisis also leaned into work that was already going on. For example, the experience of intensive care units was prevalent for many more people than ever before. This brought to bear the work that our En'Light'en group has been doing to evidence and ameliorate the negative psychological and physical effects caused by the intensive care environment. Using naturalistic light settings linked to patient biorhythms, Paul Chazot (Biosciences) and colleagues have reduced the incidence of delirium and improved patient outcomes.

In the midst of the crisis, other societal issues were uncovered. Loneliness, changes in eating and activity patterns, social isolation, the place in which we live, will all continue to have ramifications for our health and wellbeing. The way we interact with healthcare and the use of data across the region to provide more joined up care has become even more prevalent. Work continues on developing an ecosystem for the Trusted Research Environment utilising the groundwork of the Great North Care Record in which we are partners.

The use of technology in clinical practice has now become standard; our research groups are working to understand how this affects the health and wellbeing of people with whom they are concerned. For example, our Stroke Special Interest led by Alison Lane (Psychology) group have been developing a loneliness scale for stroke survivors which hitherto did not exist and examining the value of e-therapy without clinical involvement. Our over-reliance on opioid pain-killers has been addressed by our Pain Special Interest Group (Paul Chazot), providing an alternative to these ultimately detrimental medications. These improvements in care provision would not be possible without the cooperation that happens between academics, patient and public groups,

service providers and other stakeholders. Co-production is at the core of what we do to ensure fit for purpose solutions to challenges to our health and wellbeing.

We recognise that conversations about health are often centred around ill-health, or when our health is compromised or under threat. This of course has been very prevalent this year. However, at WRIHW, we are also very mindful of the factors that make us resilient to ill-health, the factors that keep us healthy. These are just as deserving of our time and effort to identify, quantify and address inequalities across individuals, communities and societies. We sit at the very **confluence of pathogenesis (what causes disease and the effects it has) and salutogenesis (what keeps us well)**. Understanding where our needle sits between these two poles allows us a novel and holistic understanding of our experience of health and wellbeing. By including, but not wholly focussing on, the biomedical model of our health, we can examine all the influences that keep us well, from our socioeconomic background, familial structure, educational attainment, physical activity...the list goes on. This way, we can identify and address health in all its forms work towards a thriving population. Together with our stakeholders and partners across the region and the world, we have shown that this approach has a value, and we are proud to give it a voice in the following pages, expertly put together by our Senior Officer, Suzanne Boyd.



Professor Amanda Ellison

## Meet the Wolfson Team

Professor Amanda Ellison

Executive Director



Professor Amanda Ellison is a neuroscientist and physiologist who never got past the why phase. This approach has served her well as Executive Director of the Wolfson Research Institute as she not only gets to help our fellowship understand the various influences on our health and wellbeing and how they manifest themselves, but she also gets to support them make real change across our region and our world. Her research seeks to bridge the gap between basic research related to how the brain works and effective rehabilitation paradigms when behaviour is affected by brain damage.

In her spare time, she writes popular science books.

Mrs Suzanne Boyd

Senior Officer



Suzanne is the Senior Officer of the Wolfson Research Institute for Health and Wellbeing as well as PA to the Executive Director. Suzanne is responsible for the day-to-day running of the Institute, dealing with matters pertaining to HR, budget, event planning and organisation and supporting the SIGS and Centres. She is responsible for the Institute website and twitter feed, as well as supporting key Wolfson-related projects and grants. Suzanne supports the Fellowship of the Institute in a number of ways including creating websites and organising meetings and events.

## Special Interest Groups

The Wolfson Research Institute for Health and Wellbeing supports a number of Special Interest Groups (SIGs). These are interdisciplinary groups of research active staff who share a common interest in a specific theme (e.g. climate change), methodology (e.g. randomised controlled trials) or specific disease (e.g. diabetes), but where there is no formal arrangement (e.g. research centre) to which their theme, methodology or disease already belongs. The aim of this scheme is to seed new enterprises with the potential to develop and become self-sustaining. We aim to support 6-8 groups each year with administrative support and funding where appropriate.

Reports from each Special Interest Group are available below.

### Teesside Aneurysm Group

The Teesside Aneurysm Group was established in June 2016. Under current best practice, patients with newly diagnosed unruptured aneurysms are either left untreated only to suffer from debilitating or fatal brain injury due to sub-arachnoid haemorrhage caused by aneurysmal rupture or are overtreated – based on whether their aneurysm is >7mm in size. Both come at great cost to the NHS (and wider economy) and has a significant impact on the patient and their family.

We contend that such a narrow predictor of rupture is conservative at best or erroneous at worst. Clinical decisions should be more holistic and patient centred. Not only aneurysm size, but its morphology, flow-dynamics, patient age, sex, co-morbidities and also psychosocial factors such as familial background, social status, education etc need to be considered. Only then will we have the ability to predict with greater certainty – the lifetime risk of rupture of a newly diagnosed unruptured aneurysm.

This project will create and validate a personalised holistic predictive model for the likelihood of rupture of a brain aneurysm. Our team of academics and neurosurgeons can each address aspects of these issues. Within a five-year timeframe we aim to have quantified the risk factors; built & validated the model and arrived at a means of providing clinicians with a tool that provides a lifetime risk of rupture for brain aneurysms.

In 2020, the Teesside Aneurysm Group continued its multidisciplinary approach towards an understanding of why some aneurysms rupture and some do not. We expanded our network to include colleagues from around the UK and across the globe, each with expertise under one aspect of our aims. In 2021, we will apply for funding to continue upon our developmental pathway with the ultimate aim of building a multifaceted tool that clinicians and patients can use to aid decisions made about their care. Knowing what works for whom and why will help us predict the lifetime risk of rupture of brain aneurysms in this neglected patient group.

## Smoking Special Interest Group

### **Purpose**

The Smoking Special Interest Group (SSIG) was established in October 2010 with the help of a SIG grant from the Wolfson Research Institute. It has subsequently received support from the WRI with a small grant titled 'Giving up tobacco – heritage and alternative livelihoods in former tobacco growing communities in Australasia'. It has also secured funds from the University's seedcorn award, the Global Challenges Research Fund networking grants scheme, and the Leverhulme Trust. The group aims to use insights from the humanities and social sciences to develop a more nuanced understanding of the factors at play in tobacco production and use, and the many ways in which dependency on tobacco is manifest, with a view to supporting more effective tobacco control work locally, regionally, nationally and internationally.

### **Activities**

Most of our activities in 2020 have been curtailed due to the coronavirus. Like the wider department, the onus for the SSIG was switching to forms of online and blended teaching and learning. Andrew Russell developed the 3<sup>rd</sup> year 'Specialised Aspects in Health' module 'Anthropology of Tobacco' for delivery in Epiphany 2021. There will be more about this in the next WRI Annual Report.

The SSIG's successful Academy of Medical Sciences Global Challenges Research Fund networking grant, 'Network for the development of participatory methods to investigate current and alternative livelihoods with bidi workers in South India' (**Prof Sushil John** (Christian Medical College, Vellore, South India – PI); **Prof Andrew Russell** (Durham University – Col). Following the major workshop held in Vellore in December 2019, Prof Sushil John and social worker **Pavan Mukherjee** developed training sessions for bidi workers in and around Vellore that were led by **Paul Dass** of 'ProVision'. Thirty-one bidi rolling women attended a practical demonstration of different craft activities in February, for example.

For more information on the networking grant, please see the dedicated website: <https://sites.durham.ac.uk/rethinkingbidis/>. NB: this website is due to migrate through the University's Community Replacement (Webpace) project in 2021.

**Prof Sushil John** and **Pavan Mukherjee**'s end-of-grant visit to Durham in March 2021 was postponed due to Covid-19. A second no-cost extension to the grant means we hope they will be able to visit in March 2022.

**Andrew Russell** used the pilot research from the networking grant as his case study for a presentation '**Participatory action research with bidi (South Asian leaf cigarette) workers in India**' on the Participatory Action Research module (SOCI43715) organised through the Centre for Social Justice and Community Action on May 12<sup>th</sup>.

**Andrew Russell** participated in a webinar titled 'Protecting children from involvement in tobacco Production' organised by SP Chander, Consortium for a Tobacco Free Karnataka, May 30<sup>th</sup>.

**Andrew Russell** continues as external sponsor to **Dr Upendra Bhojani**, who has been appointed Director of the Institute of Public Health in Bengaluru, South India. Upendra's five year Wellcome Trust India Alliance Fellowship is

titled 'Deciphering an epidemic of epic proportion: the role of state and tobacco industry in tobacco control in post-liberalized India (1990-2017)'.

**Andrew Russell's** inaugural professorial lecture 'Shape shifting substance from South America: historical and cross-cultural perspectives on tobacco' took place on Zoom on June 17<sup>th</sup>.

**Andrew Russell** presented at the European Association of Social Anthropologists' biennial conference in panel 083, 'Laudable liaisons, dangerous company and critical anthropology: Under what circumstances should anthropologists make research relations with industry?', convened by Prof Simone Dennis (Australian National University) and Prof Andrew Dawson (University of Melbourne) on July 23<sup>rd</sup>. The title of his presentation was 'The context and nature of the bidi (hand-rolled leaf cigarette) industry in India and the future potential for research and development relations'.

**Andrew Russell** gave a plenary talk, 'Choosing research methods in global challenges research contexts: from global health diplomacy to grass roots actions through research with bidi (leaf cigarette) workers in South India' at the Durham Research Methods Centre's Postgraduate Conference on November 20<sup>th</sup>.

### **Publications**

**Emily Sinclair** (2020) Review of **Andrew Russell** (2019)'s *Anthropology of Tobacco: Ethnographic Adventures in Non-Human Worlds* (<http://oopen.org/search?identifier=1004131>).\* *The Polyphony* – Conversations across the medical humanities,

<https://thepolyphony.org/2020/09/28/anthropology-of-tobacco-book-review/>

\* *The Anthropology of Tobacco* is available open access thanks to the Wellcome Trust Life of Breath grant administered through the Institute for Medical Humanities.

## Pain Academy Report

### ***Dual game-changing complementary approaches for effective & safe chronic pain management***

#### **1. Community-based persistent pain self-management: “skills not pills”**

The growing proportion of the population that is in later life and their associated co-morbidities represent both a major challenge and a major opportunity globally. The sustainability of health systems, the potential for families and the community to offer support, and the experiences of individuals mean that a different way of thinking about health and care in later



life is required. The challenge is to change the current disease-focussed approach to one that improves quality of life irrespective of any disease course: one that can fit across service provision and care from families, friends and neighbours, but is not solely based on a medical model. Persistent pain is a huge challenge; it is single biggest reason people in the UK see their GP, and in 2019 it was recognised by WHO and NICE as a priority disease.

Pain is a bio-psycho-social phenomenon with a brain construct providing potential mechanisms-therefore a Social, Primary care, Public Health and Rehabilitation issue. A platform is required for sustainable engagement and motivated communication between patients, health care professionals and researchers who can work together to implement a novel platform for acquiring clinical, physiological and mobility data with a view to delivering potential new brain-based therapies in the home environment. Persistent pain cannot be ‘fixed or cured’. It needs a person-centred management to help people live better lives with it. Health care professionals (HCPs), realise the need to change how they work with people with persistent pain.

Our [www.LiveWellwithPain.co.uk](http://www.LiveWellwithPain.co.uk) “Skills not pills” team offers a toolbox to improve CONFIDENCE of primary care clinicians and their patients to manage chronic pain with SAFER prescribing. *The team have developed the Gabapentinoid and Opioid tapering Toolbox (GOTT), which in 8 months has reduced the % high-dose opioid and gabapentinoid prescriptions in the highest pain medication prescribing practice in County Durham, to below the national average, despite CV19.* Footsteps to achieve this goal have been developed to increase the motivation: a/ for HCPs to listen to their patients b/ Patients to understand their pain and engage with therapies that help long-term c/ Create communities that are sufficiently socially resilient to allow that to happen. Patient-driven communication hubs (that will include patients, patients relatives, HCPs, anthropologists, Public Health Physicians, Commissioners), where there is already a clinical interest in pain management (Health Care Communities) will facilitate existing patient support groups with appropriate social media , such

that Support Groups can support anyone from any location. As a direct result of the success of GOTT, DU Pain Academy SIG and [www.livewellwithpain.co.uk](http://www.livewellwithpain.co.uk) have been formally approached by the UK pain self-management community, to develop and host the national virtual pain, health and wellbeing self-management and re-habilitation platform, (virtual Pain Fest Footsteps) for the COVID-19 period and beyond.

This process of mutual support, high-quality information-sharing and documentation, will be self-sustaining within primary care/rehabilitation communities (virtually and face-to-face when appropriate). Patients will have support in writing their own group histories, which they will be able to share. This website <https://my.livewellwithpain.co.uk/festival/explore-the-festival/> explains the platform and is currently expanding and developing activities (eg. Step into singing with Opera North, Mindfulness, Sleep with pain, etc). In addition, a remote experimental clinic is being developed for managing chronic pain combined with a community pain laboratory allowing the identification of new therapeutic targets and application of novel interventions. The innovative technology platform 'Manchester Smart Neurotherapies Platform (MSNP)' will allow patients at risk of developing chronic pain and those with established symptoms, to record their symptoms (pain symptom App) and brain activity (EEG), in the comfort of their own home as easily as switching on the television, except the platform will be hosted on their smart-phone. Our long-term partner, Professor Anthony Jones (Manchester University) is heading up this community clinic, which complements our Community-based pain-self management programmes.

*Our "Skills not Pills" research programme is currently funded by ESRC NINE DTP, ESRC (STF) and ESRC IAA.*

## **2. CNS-sparing natural product drug strategy for managing persistent neuropathic pain**

The majority of the extensive therapeutic side-effects and safety issues seen with current chronic pain medications are associated with access and actions within the brain. In addition, the current opioid crisis in the U.S. and Europe, and upcoming shifts in national policies for chronic pain management prescriptions, necessitates the need for a new way to treat and manage chronic pain. The Pain Academy SIG has established a long-term partnership with Akari Therapeutics, Plc



(UK), a late-stage biopharmaceutical company focused on innovative therapeutics to treat orphan autoimmune and inflammatory diseases. Based on this partnership, Akari recently announced that it is developing a second clinical candidate, *votucalis*, which specifically inhibits histamine. *Votucalis* originates from the same research program as *nomacopan*, and it shares a similar unique

mode of action - specifically capturing and tightly binding to small highly potent ligands such as C5 plus LTB4 (nomacopan) or histamine (votucalis). By inhibiting the host immune response, ticks can feed for extensive periods without damage from an inflammatory response, benefiting from circa 300 million years of evolutionary development. The inhibition of the histamine pathway affords Akari the potential to target a range of new diseases, separate from those of nomacopan. Votucalis is a unique centrally sparing natural product-based drug, which captures histamine within a high-affinity internal binding site. In our studies, we used a pre-clinical model of neuropathic pain and observed that selective targeting of peripheral histamine by votucalis resulted in highly effective inhibition of mechanical hypersensitivity. It is very exciting to see that votucalis may represent a novel and safe therapeutic strategy for chronic neuropathic pain and other conditions such as atopic dermatitis and psoriasis, where raised endogenous histamine is a known mediator.

The natural product drug, votucalis offers this potential based on its unique mode of action, the work we have done and the known role of histamine and its receptors in chronic peripheral pain mechanisms. Votucalis has the unique potential to inhibit all 4 histamine-dependent GPCRs (H<sub>1</sub>R, H<sub>2</sub>R, H<sub>3</sub>R, and H<sub>4</sub>R) by sequestering histamine within the body of the protein thereby preventing histamine binding to its receptors. A further desirable feature of votucalis, is that due to its size (21kDa) votucalis does not enter the central nervous system or brain and thus acts peripherally and is centrally-sparing and is hence less likely to cause side effects or drug dependencies. New preclinical data using a mouse model of neuropathic pain shows votucalis blocks chronic neuropathic pain symptoms. In addition, data from an itch model demonstrated a potential for votucalis to treat atopic dermatitis and attendant chronic pruritis. In both cases local subcutaneous administration of votucalis was more effective than systemic administration - requiring a far lower dose and lasting for longer than systemic treatment. Akari is continuing their work with Dr Paul Chazot and Dr Ilona Obara (Joint patent filed in UK, Europe and the US) focused on progressing votucalis into the clinic around two indications both based on local administration. These are for treatment of neuropathic pain, and for dermatological conditions associated with inflammation and itch – especially diseases where H<sub>4</sub>R may have a role in disease pathology, given there are currently no marketed anti H<sub>4</sub>R drugs.

Votucalis has been GMP manufactured and following ongoing evaluation and safety studies, proof of principle Phase II trials in 2022 under an IND would enable this project to be potentially partnered in neuropathic pain and further developed as part of the Akari dermatological franchise. Dr Miles Nunn, Chief Scientific Officer of Akari Therapeutics said, “The further development of votucalis affords Akari the potential to expand our pipeline and target a range of new diseases. The planned work will allow us to evaluate the clinical route forward for votucalis which potentially provides a new means to ameliorate neuropathic pain and treat dermatological diseases where more than one histamine activated GPCR contributes to disease pathology”.

*Our chronic neuropathic and inflammatory pain CNS-sparing drug development research programme is currently funded by Akari Therapeutics and MRC CiC.*

### **Enlighten Intensive care: CV-19 and beyond**

In 2020, Coronavirus (CV-19) catapulted critical care into public awareness, shining a spotlight on the function and design of these specialist units. Most of us, thankfully, would never have visited an intensive care unit (ICU) and would have little knowledge of the design of such environments.



With the rapid construction of field hospitals, offering intensive care on an industrial scale, the media presented detailed images of the layout, structure and equipment one would expect to find, thus heightening public awareness of the nature of critical care departments. What can be seen in such imagery is the stark clinical nature of the typical ICU. Designed with infection control and the administration of crucial medical treatment in mind, a typical bed space is highly functional in appearance, constructed of easy to clean (and often colourless) surfaces/materials. Functionality is key and it is common for such spaces to be uniformly lit by electric lighting, having few or no windows. ICU seems an alien environment and despite consistent research demonstrating the therapeutic quality of windows - particularly a view on to nature, colour and imagery, intensive care is stripped of such things, designed purely for medical purposes.

The unique Circada AI lighting system is designed to improve health, wellbeing and productivity providing the first fully health-orientated approach to general lighting. It is working with the Durham University Enlighten team to generate user feedback (staff, carer, patient) in a real-world critical care environment. With applications both in institutional settings (hospitals, care homes, prisons, offices) and for the isolated ageing consumer at home, this research will inform product development of Circada lighting. Research into Circada is a potential intervention in reducing delirium rates in critical care, including those with COVID-19 (who are at increased risk of delirium compared with non-COVID inpatients and more resistant to traditional treatment, which is limited in itself). The qualitative assessments taken during this user testing period will inform iterations and improvements to the prototype, establish feasibility and assess the health and wellbeing benefits to both patients, carers and healthcare staff, through Durham University's 'Enlighten Delirium' project, providing the basis for future clinical validation.

Enlighten Research programme is currently funded by Innovate UK (The Sustainable Innovation Fund, stage 1, 2020-2021). Dr Paul Chazot and Dr Laura Johnston & Enlighten team) and ARC PhD studentship (2021-2024).

Publication:

Health & Wellbeing benefits of light across the spectrum - the Enlighten Project. (2021) *Paul Chazot & Laura Johnston (Namaste: Book Chapter, In press)*

## **Selection of high-impact Pain Academy Publications and Patent**

1. Histamine, histamine receptors, and neuropathic pain relief. Obara I, Telezhkin V, Alrashdi I, Chazot PL *Br J Pharmacol.* 2020 Feb;177(3):580-599.
2. Cumulative Sport-Related Injuries and Longer Term Impact in Retired Male Elite- and Amateur-Level Rugby Code Athletes and Non-contact Athletes: A Retrospective Study. Hind K, Konerth N, Entwistle I, Theadom A, Lewis G, King D, Chazot P, Hume P. *Sports Med.* 2020 Nov;50(11):2051-2061.
3. WO EP GB US WO2019110825A1 Paul Louis Chazot Volution Immuno Pharmaceuticals Sa  
Methods of treating neuropathic pain are provided. In particular, the invention provides a method for treating neuropathic pain related mechanical hypersensitivity (allodynia and hyperalgesia) and peripheral neuropathic pain (Renewed in 2020 for US coverage) and Press release Feb 1<sup>st</sup> 2021 for Investment for clinical development.

## Physical Activity Special Interest Group

Our interdisciplinary Physical Activity SIG comprises core members, both academic staff and postgraduate students, from the Departments of Sport and Exercise Sciences, Anthropology, Business, and Psychology. We welcome membership from other areas of the University where there is an interest in physical activity. We are aligned to the Fuse (<http://www.fuse.ac.uk/>) physical activity special interest group which comprises members from all five north east Universities.

The remit of the SIG is broad, but ultimately focused on physical activity as a lifestyle behaviour, generating and evaluating evidence for policy and practice concerning community-based lifestyle interventions. The SIG has multi- and inter-disciplinary expertise to address a range of complex questions from a variety of paradigm perspectives. By working together with our public health, public sector and community partners (present and future) we strive to advance knowledge and understanding of physical activity in terms of what works, for whom and in what circumstances, and ultimately to create impact through policy change.

2020 has been a busy year for our SIG members and key activities are documented here.

### ***Physical activity referral (Emily Oliver and Caroline Dodd-Reynolds)***

2020 saw a series of physical activity referral-related publications for the SIG (see below), demonstrating our continuing work around how we can better design, prescribe and deliver more accessible and inclusive activity programmes. A collaboration with partners in Scotland has now led to the publication of a 'taxonomy' for re-classifying how we think about exercise referral, that is being implemented to provide a national evaluation framework. Resultant data will inform commissioning, delivery and future evidence-generation.

The group's work and reputation has expanded to capture a wider range of localised referral, or prescription-based services. In particular, the relevance of our work concerning physical activity inequalities is informing discussions across the sector about how best to design and deliver a range of equitable community services. Underpinning research includes collaborative work led by OLIVER with the sector-representative body UKActive, that was supported by a Durham

Research methods internship, as well as a mixed methods evaluation of exercise referral in the north east of England led by DODD-REYNOLDS, highlighting potential to reduce existing inequalities if factors such as expectations of service and social support mechanisms are considered throughout process.

### ***Using ethnography to evaluate physical activity interventions (Tessa Pollard)***

POLLARD currently leads ethnographic studies of social prescribing (funded by NIHR) and active school travel interventions (funded by SPHR). Within her social prescribing work she is particularly interested in referral by link workers into walking and gardening activities. This research is now being developed further by a NINE DTP funded student (Laura McGuire) whose work explores the development of social prescribing and its relationship with community gardening.

### ***Sedentary time and health (Janelle Wagnild and Tessa Pollard)***

WAGNILD continues to publish findings from her PhD on sitting time in pregnancy, having deployed qualitative methods to explore women's negotiation of activity during pregnancy, and quantitative methods to examine links between sitting time and gestational diabetes. She led a systematic review evaluating the evidence for putative mechanisms linking television time and health which will be published in 2021.

### ***Policy and guidelines***

The group's work so far has been summarised in a briefing paper titled: [Physical Activity Referral Systems: Supporting inclusive practices to reduce health inequalities](#). Group members continue to work with public health and local authority policymakers across Scotland and the North East, as well as national-level organisations, to disseminate findings and influence policy and practice. Examples include invited presentations delivered to UK-Active's members on recommendations for inclusive practices in exercise referral schemes (July 2020), and as part of a Public Health England webinar consider how community-based services can support public mental health (March, 2021). In addition, a number of PA members of the PA SIG are also part of Fuse (The Centre for Translational Research in Public Health). Recently, we produced a publication and [accompanying blog](#) to highlight 10 co-produced principles around translation of national physical activity policy into practice.

### ***Relevant funding***

SPF QR funding was obtained to fund an internship at County Durham Sport, to further develop existing relationships with our regional physical activity stakeholders: 'Data and evidence use to identify and address inequalities in community-based physical activity within County Durham' (£9,364).

### ***Relevant Publications from 2020***

- **Oliver, E.J.; Dodd-Reynolds, C.;** Kasim, A.; Vallis, D. Inequalities and Inclusion in Exercise Referral Schemes: A Mixed-Method Multi-Scheme Analysis. *Int. J. Environ. Res. Public Health* 2021, 18, 3033. <https://doi.org/10.3390/ijerph18063033>
- Hanson, Coral L., **Oliver, Emily J., Dodd-Reynolds, Caroline J.,** Pearsons, Alice & Kelly, Paul (2020). A modified Delphi study to gain consensus for a taxonomy to report and classify physical activity referral schemes (PARS). *International Journal of Behavioral Nutrition and Physical Activity* 17(1): 158.
- **Rigby, B.P.,** van der Graaf, P., Azevedo, L.B., Hayes, L., Gardner, B. & **Dodd-Reynolds, C.J.** (2020). Challenges, opportunities and solutions for local physical activity stakeholders: an implementation case study from a cross-sectoral physical activity network in Northeast England. *BMC Public Health* 20: 1760.
- **Rigby, BP, Dodd-Reynolds, CJ & Oliver, EJ** (2020). Inequities and inequalities in outdoor walking groups: a scoping review. *Public Health Reviews* 41: 4.
- Chapman, P., **Lindsey, I. , Dodd-Reynolds, C. , Oliver, E. & Summerbell, C.** (2020). Targeting childhood obesity through primary schools: reviewing alignment amongst English policies for physical activity and healthy eating. *Child and Adolescent Obesity* 3(1): 20-41.
- **Dodd-Reynolds, CJ, Vallis, D, Kasim, A, Akhter, N & Hanson, C** (2020). The Northumberland Exercise Referral Scheme as a universal community weight management programme: a mixed methods exploration of outcomes, expectations and experiences across a social gradient. *International Journal of Environmental Research and Public Health* 17(15): 5297.
- Hanson, CL, **Oliver, EJ, Dodd-Reynolds, CJ & Kelly, P** (2020). We are failing to improve the evidence base for "Exercise Referral" How a Physical Activity Referral Scheme Taxonomy can help. *British Journal of Sports Medicine* 54(12): 696-697.
- **Pollard, TM,** Guell, C & **Morris, SL** (2020). Communal therapeutic mobility in group walking: a meta-ethnography. *Social Science and Medicine* 262: 113241.
- **Tupper, E, Atkinson, S & Pollard, TM** (2020). Doing more with movement: constituting healthy publics in a movement volunteering programme. *Palgrave Communications* 6: 94.

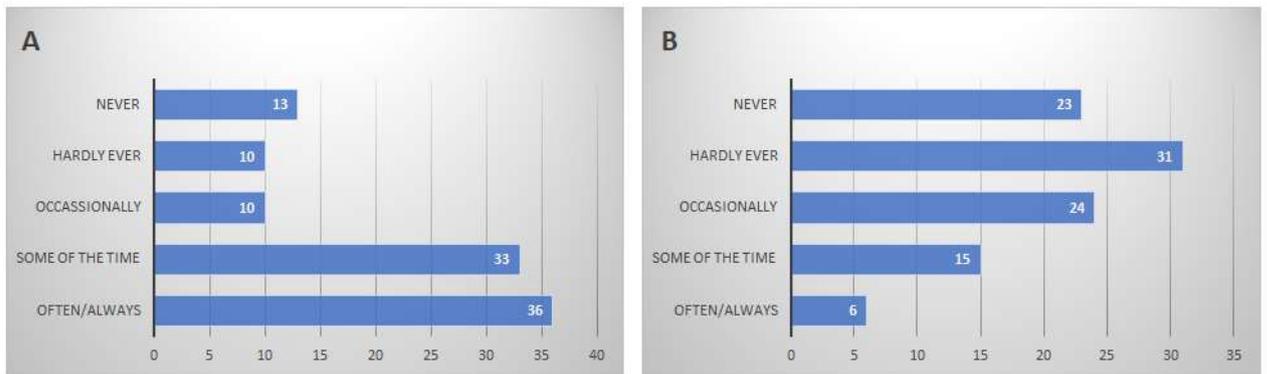
- **Wagnild, JM & Pollard, TM** (2020). “Sit yourself down” women’s experiences of negotiating physical activity during pregnancy. *Qualitative Health Research* **30**(7): 1072-1082.
- **Wagnild, JM & Pollard, TM** (2020). Associations Between Television Time and activPAL-Measured Duration and Pattern of Sedentary Time Among Pregnant Women at Risk of Gestational Diabetes in the UK. *Journal of Physical Activity and Health* **17**(4): 471-474.
- **Beasley, JM, Wagnild, JM , Pollard, TM, Roberts, TR & Akhter, N** (2020). Effectiveness of diet and physical activity interventions among Chinese-origin populations living in high income countries: a systematic review. *BMC Public Health* **20**: 1019.

## Stroke Special Interest Group

Stroke is the leading cause of disability in the UK and an NHS priority area. The Stroke special interest group has continued its research exploring and trying to improve the wellbeing of stroke survivors. One current research focus is addressing loneliness, something that has become an increasing issue for many. Loneliness in stroke survivors is an under-investigated topic, with little known about the occurrence of loneliness in this population, and whether or not there are specific factors associated with stroke which exacerbate such feelings. The researchers have been exploring such issues using a mixed-method approach, and activities undertaken in 2020 included the time-consuming processes of transcription, analysis, and reporting of data collected previously.

Several important themes regarding loneliness in stroke survivors emerged from the qualitative data collected by Drs Yang and Lane from Durham University alongside their external research collaborators. These include being alone, specific seasons and times of day, lack of understanding from others, reduced independence, and the deterioration of social relations (Yang et al., submitted). Identifying these factors means that hopefully they can be addressed, thereby resulting in improvements in quality of life for stroke survivors. However, in order to identify those at risk a more valid measure of loneliness in stroke survivors which takes such factors into account is needed. The Stroke SIG members therefore also spent time in 2020 discussing, developing, and refining such a scale, and aim to evaluate it in the coming year. It was decided to delay data collection in light of the covid-19 pandemic and testing restrictions.

Preliminary quantitative data collected as part of the same project suggests much higher rates of loneliness amongst stroke survivors as compared to the general population (Figure 1). However this is data from a small number of stroke survivors from the North East of England only, and therefore the next phase of the study will involve more detailed assessment of this nationally. Ethical approval has been obtained for this project which should begin shortly.



*Figure 1: Chart A shows the loneliness ratings from the stroke survivor sample, and Chart B the rates of population loneliness taken from the Community Life Survey (2016-17).*

### Related Publications

Dunne, S., Close, H., Richards, N., Ellison, A., & Lane, A.R (2020) Maximizing telerehabilitation for patients with visual loss after stroke: Interview and focus group study with stroke survivors, carers, and occupational therapists. *Journal of Medical Internet Research*, 22 (10): e19604, doi: 10.2196/19604.

Yang, K., Armstrong, N., Diamond, C., Lane, A.R., & Dunne, S. (Submitted) The meaning of loneliness to stroke survivors: a qualitative study in Northeast England. *Journal of Health Psychology*.

## Reports from Centres and Units

The Wolfson Research Institute for Health and Wellbeing contains a number of affiliated Research Units and Centres. Their activities over the past 12 months are highlighted in this section.

### Centre for the History of Medicine and Disease (CHMD)

While the usual meetings of the Centre for the History of Medicine and Disease (CHMD) had to be cancelled because of the Covid-19 restrictions, a number of publication projects could nevertheless be completed (see below). Also, Prof. Maehle and Dr Cheryl Lancaster participated in the international online workshop 'Catholicism and Medicine', organised by the KU Leuven/Belgium (4 September 2020), discussing their co-authored paper (with Jolien Gijbels and Reinout Vander Hulst) 'Images of the Catholic Doctor in Francophone and Anglophone Normative Texts, c. 1840-1960'. The CHMD Annual Workshop 'New Research in the History of Medicine and Science' has been scheduled for 25 June 2021 (online event).

#### Selected Publications:

- Byford, Andy: 'Studying Those Who Study Children', *Forum for Anthropology and Culture* 16 (2020), 28-37.
- Byford, Andy: 'Pedology as Occupation in the Early Soviet Union', in A. Yasnitsky (ed.), *A History of Marxist Psychology* (Routledge, 2021), 109-127.
- Eddy, Matthew: *Media and the Mind: Art, Science and Notebooks as Paper Machines, 1700-1830* (University of Chicago Press, forthcoming 2021).
- Hearne, Siobhan: *Policing Prostitution: Regulating the Lower Classes in Late Imperial Russia, 1900-1917* (Oxford University Press, 2021).
- Hearne, Siobhan: 'An Erotic Revolution? Pornography in the Russian Empire, 1905-1914', *Journal of the History of Sexuality* (forthcoming 2021).
- Lancaster, Cheryl and Ewa Posner (eds), 'Ethical Issues in Pediatric Epilepsy', special issue, *Journal of Pediatric Epilepsy* 9/3 (September 2020).
- Maehle, Andreas-Holger: *A Short History of British Medical Ethics* (Ockham Publishing, 2021).
- Perez Marin, Yari: *Marvels of Medicine: Literature and Scientific Enquiry in Early Colonial Spanish America* (Liverpool University Press, 2020).
- Perez Marin, Yari: 'The Circulation of Knowledge in Early Colonial New Spain', in A.-S. Goeing, G. Parry and M. Feingold (eds), *Early Modern Universities* (Brill, 2020), 145-162.
- Roberts, Charlotte: *Leprosy. Past and Present* (University of Florida Press, 2020).
- Roberts, Charlotte: 'Words, stigma and the coronavirus: implications of COVID-19 for holistic approaches to infectious diseases', *Journal of the British Academy* 8 (2020), Appendix 16, 240-244.
- Roberts, Charlotte: 'What Lies Beneath Those Urban Settings?', in T. K. Betsinger and S. DeWitte (eds), *The Bioarchaeology of Urbanization* (Springer Nature, 2020), 485-510.

## The Durham Infancy and Sleep Centre

January 2020 began with a flurry of activity at DISC. Multiple papers appeared in press, and several projects were actively recruiting and collecting data, a large grant application was nearing submission, and we were busily planning our 20<sup>th</sup> Anniversary Conference for April 2020 to be followed by an edited volume. All of this activity came to a grinding halt in March, with the exception of the NIHR grant application which we just managed to submit before NHS R&D Offices postponed all but Covid-19 research activity, but sadly the application was ultimately unsuccessful.

Despite having to cancel all face-to-face research, postpone our Anniversary Conference (now scheduled for March 2022) there were some positive outcomes from the year. Several new papers were published, impact work continued, as did outreach and engagement activities, re-invented to accommodate the online workspace we now occupy.

### **DISC publications 2020**

Blair, P. S., Ball, H. L., McKenna, J. J., Feldman-Winter, L., Marinelli, K. A., Bartick, M. C. (2020). Bedsharing and Breastfeeding: The Academy of Breastfeeding Medicine Protocol #6, Revision 2019. *Breastfeeding Medicine*, 15(1), 5–16. <https://doi.org/10.1089/bfm.2019.29144.psb>

Ball, H. L. (2020). The Mother-Infant Sleep Nexus: Night-Time Experiences in Early Infancy and Later Outcomes. In R. Gowland & S. Halcrow (Eds.), *The Mother-Infant Nexus in Anthropology: Small beginnings, significant outcomes* (pp. 157–171). [https://doi.org/10.1007/978-3-030-27393-4\\_9](https://doi.org/10.1007/978-3-030-27393-4_9)

Ball, H. L., & Taylor, C. E. (2020). Baby-box schemes in England: parent and practitioner experiences, and recommendations. *BMC Pediatrics*, 20(1), 154. <https://doi.org/10.1186/s12887-020-02064-2> (open access)

Ball, H. L., Taylor, C. E., Thomas, V., & Douglas, P. S. (2020). Development and evaluation of ‘Sleep, Baby & You’—An approach to supporting parental well-being and responsive infant caregiving. *PLOS ONE*, 15(8), e0237240. <https://doi.org/10.1371/journal.pone.0237240> (open access)

Barbir, I., Ball, H. L., & Zakarija-Grković, I. (2020). Parental knowledge of safe infant sleep and sudden infant death syndrome is inadequate in Croatia. *Acta Paediatrica*, 109(9), 1887–1888. <https://doi.org/10.1111/apa.15207>

### **DISC outreach & engagement**

550 health professionals completed online webinar training in two training programmes offered via our Baby Sleep Information Source (Basis): Normal Infant Sleep and SIDS and Sleep Safety.

Our contribution to the 2020 Festival of Social Science -- an online YouTube Premier lecture on *Normal Infant Sleep: the view from Anthropology* received 20,000 hits between 15/11 and 31/12/2020.

We tried our hand at creating animations, producing several short clips for the

Basis website that are now being used by Health Professionals running online antenatal and parenting classes.

We spoke at 7 online conferences across the UK and around the world, we were interviewed for 3 podcasts, gave lectures to student midwives, hosted webinars for student health visitors, and conducted online training for peer supporters.

We conducted several online PPI sessions to gain feedback from parents on our proposed intervention Sleep Baby & You.

## **DISC Impact**

In 2020 we drafted two REF impact case studies for REF 2021, one on Changing Infant Sleep Safety Guidance, and one on Mother-Infant Proximity in the postnatal period.

We provided talks for workshops on Sudden Unexpected Death in Infancy in Wakefield, Leicester, and Manchester. We spoke (virtually) at the British Sleep Society Conference in Glasgow.

We served on a Scottish Government SIDS update panel, and reviewed infant sleep materials for the Scottish NHS Parent Club website. We supported staff in County Durham and Darlington NHS Trust to produce training materials on SIDS, SUDI and bedsharing.

We worked closely with Lullaby Trust to produce materials for training front-line workers to delivery safe sleep guidance to parents.

We were invited by Best Beginnings to join the Early Years Digital Partnership to produce the Baby Buddy 2 app to support pregnant and new parents, and will contribute infant sleep information for this app.

## **Staff changes**

In May DISC Manager Dr Charlotte Russell left to pursue new adventures and her role was filled by Dr Catherine Taylor and Ms Alice-Amber Keegan who are currently performing the DISC Manager role as a job-share.

New PhD student Lenka Medvecova joined us from the Czech Republic to study toddler sleep using both actigraphy and ethnographic methods, supervised by Professor Helen Ball & Dr Roslyn Malcolm.

## Centre for Ethics and Law in the Life Science

### January-December 2020 publications

#### *Books and edited collections*

- Deryck Beyleveld & Marcus Düwell, *The Sole Fact of Pure Reason: Kant's Quasi-Ontological Argument for the Categorical Imperative*. (De Gruyter, 2020)
- Thom Brooks, *Climate Change Ethics for an Endangered World* (Routledge, 2020)
- Shaun D Pattinson, (2020). *Medical Law and Ethics* 6th ed (London: Sweet & Maxwell)
- Camilla Pickles & Jonathan Herring (eds), *Women's Birthing Bodies and the Law: Unauthorised Intimate Examinations, Power and Vulnerability* (Hart, 2020)
- Duncan Fairgrieve & Richard Goldberg, *Product Liability* (Oxford University Press, 2020)

#### *Articles and chapters, and other contributions*

- Thom Brooks, "Collective Responsibility for Severe Poverty" (2020) 11(4) *Global Policy* 486
- Thom Brooks, "More than Recognition: Why Stakeholding Matters for Reconciliation in Hegel's Philosophy of Right" (2020) 51(1/2) *The Owl of Minerva* 59
- Deryck Beyleveld & Roger Brownsword, "Is There Really Anything Wrong With an Absolute Principle?" In Martin Borowski (ed), *Modern German Non-Positivism* (Mohr Siebeck, 2020)
- Jessica Berg & Emma Cave, "Patient Autonomy, Capacity and Consent (children)" in Tamara Hervey & David Orentlicher (eds), *Oxford Handbook on Comparative Health Law* (Oxford University Press 2020)
- Jessica Begon, "Disability, Rationality, and Justice: Disambiguating Adaptive Preferences" in David Wasserman & Adam Cureton (eds), *The Oxford Handbook of Philosophy and Disability* (Oxford University Press, 2020)
- Emma Cave & Caterina Milo, (2020). "Informing Patients: The Bolam Legacy" (2020) 20(2) *Medical Law International* 103
- Emma Cave, "COVID-19 Super-Spreaders: Definitional Quandaries and Implications" (2020) 12 *Asian Bioethics Review* 235
- Emma Cave, David Archard & Joe Brierley, "Making decisions for children: Accommodating Parental Choice in Best Interests Determinations. Barts Health NHS Trust v Raqeeb [2019] EWHC 2530 (Fam); Raqeeb and Barts Health NHS Trust [2019] EWHC 2531 (Admin)" (2020) 28 *Medical Law Review* 183
- Emma Cave, "Selecting Treatment Options and Choosing Between them: Delineating Patient and Professional Autonomy in Shared Decision-Making" (2020) 28 *Health Care Analysis* 4
- Emma Cave & Craig Purshouse, "Think of the Children: Liability for Non-disclosure of Information Post-Montgomery" (2020) 28 *Medical Law Review* 270
- Emma Cave, "Valid consent to medical treatment" (2020) *Journal of Medical Ethics* doi: 10.1136/medethics-2020-106287

- Emma Cave, Bobbie Farsides, Melinee Kazarian, Ian Kerridge & Julian Savulescu, “Expert Report to the Infected Blood Inquiry: Medical Ethics” (Infected Blood Inquiry, 2020)
- Andreas-Holger Maehle, (2020). “Beyond Professional Self-Interest: Medical Ethics and the Disciplinary Function of the General Medical Council of the United Kingdom 1858-1914” (2020) *Social History of Medicine* 33(1) 41
- Christine Tomkins, Craig Purshouse, Rob Heywood, Jose Miola, Emma Cave & Sarah Devaney, “Head to Head: Should Doctors Tackling Covid-19 be Immune from Negligence Liability Claims?” (2020) *British Medical Journal* 370
- Camilla Pickles, “When ‘battery’ is not enough: Exposing the Gaps in Unauthorised Vaginal Examinations during Labour as a Crime of Battery” in Camilla Pickles & Jonathan Herring (eds), *Women’s Birthing Bodies and the Law: Unauthorised Intimate Examinations, Power and Vulnerability* (Hart, 2020)
- Samantha Halliday, “Maintaining the Criminal Prohibition of Abortion as a Means of Protecting Women. Alternative Facts and Realities in Reproductive Law and Policy” in Arndt Sinn et al (eds), *Populismus und alternative Fakten* (Mohr Siebeck, 2020)
- Simon James “Nature’s Indifference” (2020) 41 *Environmental Ethics* 115
- Simon James “Legal Rights and Nature’s Contributions to People: Is There a Connection?” (2020) *Biological Conservation* 241
- Olivia Woolley, ‘What Would Ecological Climate Law Look Like? Developing a Method for Analysing the International Climate Change Regime from an Ecological Perspective’ (2020) 29 *Review of European, Comparative and International Environmental Law* 76
- Emma Milne, “Putting the Fetus First — Legal Regulation, Motherhood, and Pregnancy” (2020) 27(1) *Michigan Journal of Gender & Law* 149.
- Betsy Thom, Rachel Herring & Emma Milne, (2020). “Drinking in Pregnancy: Shifting Towards the ‘Precautionary Principle’” in Susanne MacGregor & Betsy Thom (eds), *Risk and Substance Use: Framing Dangerous People and Dangerous Places* (Routledge, 2020)
- Petra Minnerop, (2020). “The Legal Effect of the ‘Paris Rulebook’ under the Doctrine of Treaty Interpretation” in Peter Cameron, Xiaoyi Mu & Volker Roeben (eds), *Global Energy in Transition: Towards Rules-based Multilateral Governance of Generation, Markets and Investment* (2020)
- Petra Minnerop & Friederike EL Otto, “Climate Change and Causation: Joining Law and Climate Science on the basis of Formal Logic” (2020) 27 *Buffalo Environmental Law Journal* 49
- Petra Minnerop, “The First German Climate Case” (2020) 22 *Environmental Law Review* 215
- Matthew Nicholson, “On the Origins of Human Rights” (2020) 5 *European Human Rights Law Review* 512
- Kara Woodbury-Smith, “The Nature of Law and Potential Coercion” (2020) 33(2) *Ratio Juris* 223
- Claire Horn & Elizabeth Chloe Romanis, “Establishing Boundaries for Speculation About Artificial Wombs, Ectogenesis, Gender, and the Gestating Body” in Chris Dietz, Mitchell Travis & Michael Thomson (eds), *A Jurisprudence of the Body* (Palgrave 2020)
- Elizabeth Chloe Romanis, “Addressing Rising Cesarean Rates: Maternal Request Cesareans, Defensive Practice, and the Power of Choice in

Childbirth" (2020) 13(1) *International Journal of Feminist Approaches to Bioethics* 1

- Elizabeth Chloe Romanis, "Artificial Womb Technology and the Choice to Gestate Ex Utero: Is Partial Ectogenesis the Business of the Criminal Law?" (2020) *Medical Law Review* 28(2) 342
- Elizabeth Chloe Romanis & Claire Horn, "Artificial Wombs and the Ectogenesis Conversation: A Misplaced Focus? Technology, Abortion, and Reproductive Freedom" (2020) 13(2) *International Journal of Feminist Approaches to Bioethics* 174
- Elizabeth Chloe Romanis, "Challenging the 'Born Alive' Threshold: Fetal Surgery, Artificial Wombs, and the English Approach to Legal Personhood" (2020). 28(1) *Medical Law Review* 93
- Elizabeth Chloe Romanis, Jordan A Parsons & Nathan Hodson, "COVID-19 and reproductive justice in Great Britain and the United States: ensuring access to abortion care during a global pandemic" (2020) *Journal of Law and the Biosciences* 7(1)
- Elizabeth Chloe Romanis & Anna Nelson, "Homebirthing in the United Kingdom during COVID-19" (2020). *Medical Law International* 096853322095522
- Elizabeth Chloe Romanis, "Is 'viability' viable? Abortion, conceptual confusion and the law in England and Wales and the United States" (2020) *Journal of Law and the Biosciences*
- Elizabeth Chloe Romanis & Jordan A Parsons "Legal and Policy Responses to the Delivery of Abortion Care during COVID-19" (2020) 151(3) *International Journal of Gynecology & Obstetrics* 479
- Chloe Romanis Elizabeth & Anna Nelson "Maternal Request Caesareans and COVID-19: The Virus does not Diminish the Importance of Choice in Childbirth" 2020 46(11) *Journal of Medical Ethics* 726
- Elizabeth Chloe Romanis, "Partial Ectogenesis: Freedom, Equality and Political Perspective" (2020) 46(2) *Journal of Medical Ethics* 89
- Elizabeth Chloe Romanis, Dunja Begović, Margot R Brazier, & Alexandra Katherine Mullock, (2020) "Reviewing the Womb" (2020) *Journal of Medical Ethics* Medethics-2020-106160
- Elizabeth Chloe Romanis, "Sally Sheldon and Kaye Wellings (eds), Decriminalising Abortion in the UK: What Would It Mean?" (2020) *Medical Law Review*
- Robert Song, "Desiring Machines: The Sexbot Paradox" in Scott A Midson (ed), *Love, Technology and Theology* (T&T Clark, 2020)
- Barend Van Leeuwen, "The Impact of the Legitimacy of European Standards on Their Application in Private Law: a Case Study on Professional Standards in the Medical Sector" in Mariolina. Eliantonio & Caroline Cauffman (eds), *The Legitimacy of Standardisation as a Regulatory Technique* (Edward Elgar Publishing, 2020)
- Barend Van Leeuwen, "Free Movement of Life? The Interaction Between the Best Interests Test and the Right to Freely Receive Services in Tafida Raqeeb" (2020) *Public Law* 398
- Paul Verbruggen & Barend Van Leeuwen, "Het PIP-schandaal tien jaar verder: Een analyse van de geboekte resultaten en nog onbeantwoorde vragen" (2020) 1 *Tijdschrift voor Consumentenrecht & Handelspraktijken* 12
- Barend Van Leeuwen, "Towards Europeanisation Through the Proportionality Test? The Impact of Free Movement Law on Medical Professional Discipline" (2020) 26(1-2) *European Law Journal* 61

## Events

- 25 November 2020: Dr Camilia Kong, Birkbeck College, “Bridging Individual Autonomy and Best Interests: The Obligation of Moral Considerability in Mental Capacity Law”
- 9 December 2020: Prof. Celia Kitzinger, University of Cardiff, “Open Justice in the Court of Protection”

## Funding awards

Dr Shaun Pattinson was awarded the Leverhulme Major Research Fellowship. The project examines the way that the current law is challenged by biomedical developments that will create, enhance or extend human life. Its central question is: how should judges and legislators understand and address the substantive, structural and conceptual challenges arising at the frontiers of biomedicine? The result will be a novel approach to legal theory. It aims to show that law is a subcategory of a secular morality and fully respond to challenges presented by the historical compromises of English law and the issues raised by three case studies on future biomedical developments. The resulting book will be published by Hart in 2023 with the title: *Law at the Frontiers of Biomedicine: Creating, Enhancing and Extending Human Life*

## Durham Health and Social Theory Group

During 2020, the group built on the collaborative ethos it developed in the previous years, bringing our vision of studying ‘health as a lens to the social’ to bear in multiple research projects. Jamie and Moreira led research projects at the interface between microbiology and social sciences, which have resulted in a collaborative grant led by Jamie and submitted to the Leverhulme Trust, with colleagues from Biophysics, Biological Sciences and a choreographer. Jamie led a study on how biological scientists have adapted scientific practices to the pandemic conditions. Castellani co-led two studies modelling care needs in response to the Covid 19 pandemic. Led by Castellani, we were involved in the development of an interdisciplinary research consortium supported by the MRC to understand the links between air pollution and cognitive health. Moreira is involved in a study of how a network of 50 of the world’s leading evidence-synthesis, technology-assessment and guideline-development organisations around the world responded to the pandemic, in collaboration with colleagues at Macmaster University (Canada). Yang led a questionnaire study on the effects of the first lockdown in 2020 on family life and mental health.

The group usually meets fortnightly to discuss work-in-progress, collaborative grants, and other research related matters. However, the group met weekly during the first months of the pandemic, providing a platform of peer support for ongoing research activities. We hosted a variety of research presentations of ongoing work on the effects of the pandemic on social and health inequalities, the political economy of the pandemic response, the use of digital platforms in family life, the changing regimes of scientific work in biomedicine and disability and the pandemic response. We also hosted research presentations from invited speakers on judicial expertise and mental illness (M. David), and the politics of interdisciplinary collaborations in health research (A. Balmer, Manchester U.).

## Publications:

- Byrne, D. S. (2020). Understanding Class in the Post-Industrial Era- Thoughts on Modes of Investigation. *Frontiers in Sociology*, 5, 39.
- Amini, E. and McCormack, M. (2020) Older Iranian Muslim women's experiences of sex and sexuality: A biographical approach. *The British Journal of Sociology*. <https://doi.org/10.1111/1468-4446.12805>
- Jamie, K. et al. (2020). "I just don't think it's that natural": Adolescent mothers' constructions of breastfeeding as deviant. *Sociology of Health & Illness* 42(7): 1689-1708.
- Jamie, K., & Sharples, G. (2020). The social and material life of medicinal clay: exploring antimicrobial resistance, medicines' materiality and medicines optimization. *Frontiers in Sociology*, 5, 26.
- Moreira, T., Hansen, A. A., & Lassen, A. J. (2020) 'From quantified to qualculated age: the health pragmatics of biological age measurement', *Sociology of Health & Illness*, 42(6): 1344-1358.
- Lassen, AJ and Moreira, T. (2020) 'New bikes for the old: materialisations of active ageing', *Science and Technology Studies* 33 (3): 39-56
- Roe, L., Proudfoot, J. Tee Wee Teck, R.D.G. Irvine, S. Frankland, A. M. Baldacchino (2020) Isolation, solitude and social distancing for people who use drugs: An ethnographic perspective. *Frontiers in Psychiatry* 11: 623032. doi: 10.3389/fpsy.2020.623032
- Schimpf, C., & Castellani, B. (2020). COMPLEX-IT: A Case-Based Modelling and Scenario Simulation Platform for Social Inquiry. *Journal of Open Research Software*, 8(1).
- Telford L, and Wistow J. Brexit and the working class on Teesside: Moving beyond reductionism. *Capital & Class*. 2020;44(4):553-572. doi:10.1177/0309816819873310
- Meersohn Schmidt, Cynthia & Yang, Keming (2020). Controlling active ageing: a study of social imaginaries of older people in Chile. *Ageing & Society* 40(7): 1428-1454.
- Yang, K., Peterson, K.J. & Qualter, P. (2020). Undesirable social relations as risk factors for loneliness among 14-year-olds in the UK: Findings from the Millennium Cohort Study. *International Journal of Behavioral Development*, special issue, online first.

## Grants

- Byrne and Castellani (Co-Is) Centre for the Evaluation of Complexity Across the Nexus (CECAN), Economic and Social Research Council.
- Castellani (Co-I) Agent-Based Modelling on Covid-19, ESRC Centre for Social and Economic Research on Innovation in Genomics (INNOGEN), £16k
- Castellani (Co-I) Data Design and Visualisation and Open-Access Publication Costs for the Durham COVID-19 Community Health and Social Care Modelling Team, IBM £15k
- Castellani (PI) Exploring the Complex Policy Landscape Around Air Pollution and Public Health: A 2-Day Workshop £15k.
- Castellani (Co-I) InSPIRE - Consortium Development Grant, UKPRP (MRC). £42k.
- Castellani (Co-I) Early Warning Scores: Modelling Care in Response to the Covid 19 Pandemic, MRC. £4k.
- Castellani (PI) UKPRP proposal: MR/T045221/1 - InSPIRE: Innovating UK

clean air policies to prevent cognitive disorders across the lifespan, particularly for vulnerable urban populations CONSORTIUM BUILDING PHASE, £50k.

- Jamie (PI) 'Antibacterial clay therapy', Institute for Advanced Study, Durham University, £19,500
- Moreira (PI) Material Imagination, Royal Society APEX Awards, £98,705.78
- Moreira (PI) Material Imagination: co-designing living materials, Institute of Advanced Study, £5990
- Wistow (Co-I) Children Young People and Families, Work Programme 1: 'Examining the policy context for reducing health inequalities among children and young people', NIHR SPHR 2, £348,120.33
- Yang (PI) Effects of the Lockdown on family life and mental health, Durham University, £1,840

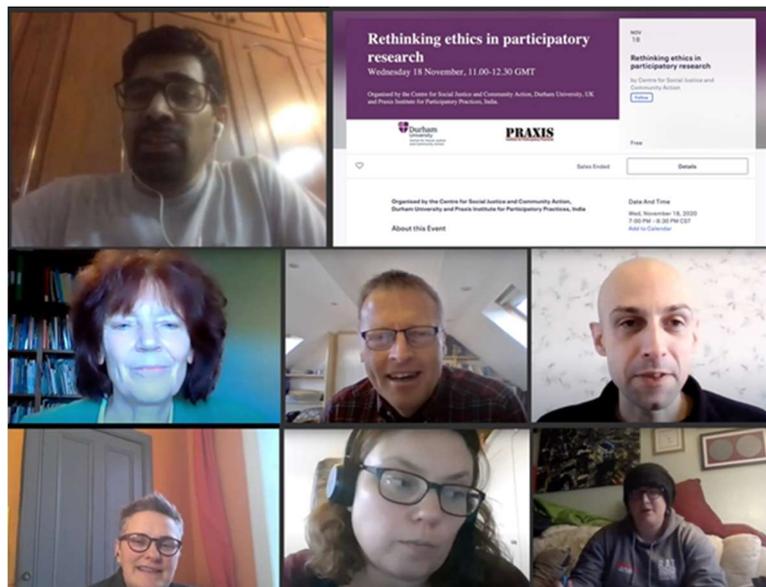
## Centre for Social Justice and Community Action

**A challenging year:** The Covid-19 pandemic profoundly affected all members of CSJCA and people we work with during 2020, both professionally and personally. The Centre moved to offering events and training online, including working with the UK Network for Participatory Research to explore issues and challenges for PAR in times of remote and socially distanced practice, and some staff initiated action research on social work practice during Covid-19.

**New film about the Centre's work:** A seven-minute film about the research conducted by members of the Centre and the related research group in the Sociology Department at Durham University was made by Wang Yi, the doctoral researcher and active member of the CSJCA. This can be found on Youtube [HERE](#).

**Presentations at conferences & meetings:** Centre directors and others attended many online events where they presented and discussed research conducted in the Centre in 2020. **Alison Jobe** hosted the annual Regional Learning day of The North East Sex Work Forum in February. **Gina Porter** presented in a series of GCRF research webinars from May to July, and she

made a presentation for ITDP New York at the Mobilize virtual summit interactive training workshop in October. **Sarah Banks** and **Tian Cai** presented research findings about ethics and social work during Covid-19 at the International Federation of Social Workers' online conference in May and a British Association of Social Workers webinar in July. **Andrew Orton** contributed a



presentation on building trust in local communities to the 2<sup>nd</sup> European Policy

Dialogue Forum on Refugees and Migration organised by the Network for Dialogue in November. **Gary Craig** was a keynote speaker at the conference organised by British Expertise International on the role of British overseas aid in combatting modern slavery, launching the report of the Independent Commission on aid impact, in December.

**Fellowship:** **Pradeep Narayanan** from Praxis Institute for Participatory Practices, India was awarded a Global Challenges Research Fund Fellowship with the Centre for Social Justice and Community Action to undertake action research on community-based ethical review in India. Unable to come to Durham physically in 2020, he delivered several webinars, engaged in discussion with Centre members and is developing innovative practice in this field alongside community researchers.

### **Online training events, seminars and workshops organised by the Centre**

- **Participatory Action Research**, 5-day Masters module, 11-15<sup>th</sup> May 2020, delivered online by Sarah Banks, with assistance from Wang Yi. Blackboard Collaborate Ultra was used, with a mix of Powerpoint presentations, workshops, group discussion, group work and 'laughter yoga'.
- **Participatory Research with Communities facing Stigmatisation: Barriers to Accessing Education in India**, Webinar, 27<sup>th</sup> May 2020, with Pradeep Narayanan, Mayank Sinha and community researchers. A video recording of the webinar is available [HERE](#).
- **Participatory Research during Covid 19: challenges and new ways of working**, 26<sup>th</sup> June 2020. The webinar was organised by the UK Participatory Research Network and the Centre for Social Justice and Community Action, featuring a range of speakers and workshops.
- **Participatory Action Research: Issues, Challenges and Reflections from USA and UK**, Webinar, 14<sup>th</sup> July, 2020, for postgraduate researchers and community organisations. This replaced the 2-day course usually held in Durham, and was facilitated by Sarah Banks and Mary Robson, with guest speakers Mary Brydon-Miller (University of Louisville), Kristin Kalsem (University of Cincinnati) and Yvonne Hall (community researcher, North Tyneside).
- **Rethinking ethics in participatory research**, 18<sup>th</sup> November 2020. This webinar was organised by the Centre for Social Justice and Community Action and Praxis Institute for Participatory Practices, India. Introduced by Sarah Banks, the plenary speaker was Pradeep Narayanan. The recording of the plenary talk is available [HERE](#).

### **Selection of current research projects**

- **ASTRA project.** Durham has been successful as part of a substantial European consortium in gaining European Commission funding for the "ASTRA" project which brings together a team of universities, community partners to develop a research programme on sustainability in social work, and social inclusion. If you'd like to know more about the project, please contact **Roger Smith** ([roger.smith@durham.ac.uk](mailto:roger.smith@durham.ac.uk)) and **Sui Ting Kong** ([sui.t.kong@durham.ac.uk](mailto:sui.t.kong@durham.ac.uk)).

- **Emerging Voices: Child Trafficking in Ghana**, funded by Arts and Humanities Research Council. **Gary Craig** was Research Lead for this research project. The final report is available [HERE](#).
- **Empowering Social Workers in Challenging Times: Learning from Best Practice during Covid-19**. **Sui Ting Kong** has received ESRC IAA funding (£9590) for a collaborative project between academics from the CSJCA and practitioner-researchers from the British Association of Social Workers (BASW). The project aims to identify best practice and ethical and practical challenges facing social work during covid-19 through co-analysis of data collected from the BASW's *Ongoing Survey on Social Work during Covid-19*, November 2020 – July 2021.
- **Ethical challenges for social workers during Covid-19** – Funded by Durham University's ESRC Impact Acceleration Account, led by **Sarah Banks**, with research assistance from **Tian Cai**, this project (April to December 2020) partnered with the International Federation of Social Workers, the British Association of Social Workers and an international team of researchers. It involved surveying social workers' experiences worldwide, generating a guide to practising ethically during pandemic conditions, a report with recommendations and several articles and book chapters.
- **Global Challenges Research Fund (GCRF), networking grant**. This research project involves **Andrew Russell**, in collaboration with colleagues in India, investigating alternative livelihoods for bidi (South Asian leaf cigarette) workers by engaging bidi workers directly in the research process.
- **Limits of Solidarity? Ethics in Christian Social Welfare Practice** led by **Andrew Orton** and partners in Sweden, Czech Republic and Germany. Work continued on a €15,000 Uppsala University/Durham University seedcorn grant project. This included running an online European workshop involving 32 participants in November 2020.
- **Research exploring Criminal Justice System responses to people with learning disabilities in cases of sexual assault/rape**. **Alison Jobe** has worked with Rape Crisis Tyneside and Northumberland on this research, funded by N8 Policing Research Partnership Project People and Knowledge Exchange, with Helen Williams (Sunderland), Northumbria Police and Rape Crisis Tyneside and Northumberland (RCTN). Summary report, full report, easy read report and presentation of findings available [HERE](#).
- **Youth engagement and skills acquisition within Africa's transport sector: promoting a gender agenda towards transition into meaningful work**, GCRF ESRC-funded project, led by **Gina Porter**, continued with visits to South Africa and Nigeria in Feb 2020, subsequently having to reconfigure due to Covid-19.

### Selection of publications

- **Banks S, Cai T**, de Jonge E, Shears, J., Shum, M., Sobočan, A. M., Strom, K., Truell, R., Úriz, M. J., Weinberg, M. (2020). Practising ethically during COVID-19: Social work challenges and responses. *International Social Work*, 63(5):569-583.
- **Banks, S., Cai, T.**, de Jonge, E., Shears, J., Shum, M., Sobočan, A. M., Strom, K., Truell, R., Úriz, M. J., Weinberg, M. (2020) *Ethical challenges for social workers during Covid-19: A global perspective*, Rheinfelden, Switzerland: International Federation of Social Workers.
- Bradbury, A. and **Porter, G.** (2020). Gender mainstreaming in rural transport. *Institute of Civil Engineers -Transport* 173, 2. April 2020.
- Brooks-Gordon, B., Wijers, M. and **Jobe, A.** (2020). Justice and Civil

Liberties on Sex Work in Contemporary International Human Rights Law. *Social Sciences*. 9(1): 4

- **Craig, G** et al. (2020). 'Neoliberalisation and community development: comparing community development services in Hong Kong and Beijing'. *Asia and China in the global era*, Boston: de Gruyter.
- **Craig, G**, Ali, N. and Cole, B. (2020). "Race": the missing dimension in social policy higher education. In J Rees et al. (eds.) *Social Policy Review*, 32, Bristol: Social Policy Association.
- **Craig, G**. (2020). Modern slavery in the United Kingdom: is there a distinctly rural dimension? *Global Policy Blog*, <https://www.globalpolicyjournal.com/blog/03/09/2020/modern-slavery-united-kingdom-there-distinctly-rural-dimension>
- **Jobe, A**. (2020). Telling the Right Story at the Right Time: women seeking asylum with stories of trafficking into the sex industry. *Sociology*, <https://doi.org/10.1177/0038038520932019>
- **Kong, S. T.**, Ho, P. S. Y., & Jackson, S. (2020). Doing being observed: Experimenting with collaborative focus group analysis in post-Umbrella Movement Hong Kong. *Sociological Research Online* <https://journals.sagepub.com/doi/full/10.1177/1360780420961400>
- **Kong, S. T.** (2020). Beyond 'Safeguarding' and 'Empowerment' in Hong Kong: Towards a Relational Model for Supporting Women who Have Left their Abusive Partners. *Journal of Family Violence* <https://rdcu.be/b55fW>
- **Kong, S. T.**, **Banks, S.**, Brandon, T., Chappell, S., Charnley, H., Hwang, S. K., Rudd, D., Shaw, S., Slatcher, S. & Ward, N. (2020). Extending Voice and Autonomy through Participatory Action Research: Ethical and Practical Issues. *Ethics and Social Welfare*, 14(2), 220-229.
- O'Neill, M. and **Jobe, A.** (2020). Gender and Migration. In Richardson, Diane & Robinson, Victoria *Introducing Gender and Women's Studies: fifth edition*. London: Red Globe Press.
- Oxley, R. and **Russell, A.** (2020). Interdisciplinary Perspectives on Breath, Body and World. *Body & Society* 26(2): 3-29.
- **Porter, G.**, Abane, A., Lucas, K. (2020). *User diversity and mobility practices in Sub-Saharan African cities: understanding the needs of vulnerable populations. The state of knowledge and research*. Gothenburg, Sweden: Volvo Research and Educational Foundations.
- **Porter, G.**, Hampshire, K., Abane, A., Munthali, A., Robson, E.; de Lannoy, A., Tanle, A., Owusu, S. 2020. Mobile phones, gender and female empowerment in sub-Saharan Africa: studies with African youth. *Journal of Information Technology for Development*, 26 (1):180-193

## Anthropology of Health Research Group

This has perhaps been the strangest year ever for the Anthropology of Health Research Group (AHRG) as we set out, collectively and intemperately, to investigate the arrival of Covid-19 and its progress from March 2020 onwards. The arrival of the pandemic inevitably impacted on the work of our three health-focussed laboratories – the Infancy and Sleep Centre (led by Helen Ball), the Ecology and Endocrinology laboratory (led by Gillian Bentley), and the Physical Activity laboratory (led by Tessa Pollard). For more information on these and other laboratories in the Department of Anthropology, please see <https://duracuk-lb01-production.terminalfour.net/departments/academic/anthropology/about-us/facilities/> and other pages in this Annual Report.

The pandemic also led to enforced innovations and new work. We held a series of discussion events on the literature about epidemics including such topics as Lakoff's concept of 'preparedness'. Other research highlights in 2020 include an inaugural professorial lecture by Andrew Russell, the first to be held on Zoom in the department, and a full programme of seminars and other communal events, mostly held online or in a hybrid format and all fascinating. In academic year 2021-22 Roslyn Malcolm will be taking over running the Anthropology of Health Research Group. We are very grateful to Jed Stevenson who has organised the group for the past three years. Anyone is welcome to join one of our Anthropology of Health email lists. To be added to the right one, please contact our research administrator, Kate Payne – [Anthropology-pgr@durham.ac.uk](mailto:Anthropology-pgr@durham.ac.uk).

Our departmental response to the pandemic was to focus on core teaching responsibilities and to put unnecessary commitments on hold, at least for now. We continue to coordinate the undergraduate BSc Health and Human Sciences degree, to the best of our knowledge the only undergraduate degree in medical anthropology anywhere in the UK. At the same time, we welcomed three new staff members: Liana Chase (global mental health), Roslyn Malcolm (equine therapy and hormones) and Jordan Mullard (health inequalities, race and racism UK and caste and casteism in India) For fuller biographies and research interests of individual members of staff, please go to: <https://www.durham.ac.uk/departments/academic/anthropology/research/groups/anthropology-of-health/>.

The mission statement of the AHRG remains the same: to act as a bridge between aspects of biological and social anthropology pertaining to health and wellbeing, community medicine, evolutionary medicine, social epidemiology and public health. The group works locally, regionally, nationally and internationally. It hosts seminars and workshops, promotes research collaborations, and supports and advises on both laboratory and community-based research projects. Last September, for example, two AHRG members contributed to the Durham University Webinar: Food and Ethnicity ([www.foodandethnicity.info](http://www.foodandethnicity.info)). Nasima Akhter presented on 'Food insecurity and nutrition: contexts and contrasts', and Jordan Mullard presented on 'Why we need to talk about racism: health and the persistence of inequality in the UK' (<https://youtu.be/GH4oAjp73x8>). Many staff and students (as Wolfson Fellows and Postgraduate Associates respectively) have benefitted from the Wolfson small grants scheme; it is a great shame didn't run in 2020, as it previously offered valuable seed awards for larger research grants.

We offer an interdisciplinary forum for the anthropological study of health and illness, the discussion of both local and international health issues, and a range of impact and outreach activities. We have a strong focus on applied work and the tension between academic and activist roles is a common theme in our group. We foster the development of research students and oversee the MSc in Medical Anthropology. We also build affiliations with health professionals, and promote the translation of anthropological research into health policy. We have plans afoot to develop a cluster for the ethnographic study of health promotion, possibly as a subdivision of the Durham Research Methods Centre with which we have close collaboration. We are offering a module, Society, Health and Wellbeing, to students on the Data Science (Health) masters' programme, as well as our Medical Anthropology MSc and as an optional module for students on other taught postgraduate degrees in the department. We are also putting plans in place for an MSc degree titled Global and Planetary Health, to start in September 2022. This is likely to change our research focus in bountiful ways – watch this space!

The postgraduate conference in medical anthropology that student members of the AHRG organise jointly with their Edinburgh counterparts each year had to be cancelled in 2020 due to Covid-19 but was revamped as an online conference to run over four days in April 2021.

### **Grant successes**

The group have had exceptional grant success, including an ERC starting grant led by Hannah Brown (€1.5m) and a major ESRC award to study an innovative approach to psychiatric care in the NHS co-led by Liana Chase. AHRG member Jane Macnaughton was awarded just over £1m by the Wellcome Trust to continue the work of the Institute for Medical Humanities of which she is currently Director. Kate Hampshire saw the commencement of two grants, STREAMS (Strengthening African Medicine Systems) (original sum £200,000) Health Systems Research Initiative (MRC/ESRC/Wellcome/FCDO) and a WHO-funded analysis of data on substandard and falsified medicines (£20,000). She was Co-I (with Felix Ringel and Catherine Alexander) on a £3.3m GCRF/NERC grant on plastic waste and health in urban Africa. Jeremy Kendal was Co-I on a successful Australian Research Council grant for AUS\$400,000 'How can cultural innovations trigger the emergence of new diseases?' (PI: Mark Tanaka, UNSW). Andrew Russell was Co-I on an EPSRC-GCRF grant for £888,364 'Patient-centric supramolecular formulations of new anti-leishmanial drugs for Indian communities' (PI: Patrick Steel, Chemistry, Durham).

### **A selection of our publications in 2020**

- Howland, R.E., Deziel, N.C., **Bentley, G.R.**, Booth, M., Choudhury, O.A., Hofmann, J.N., Hoover, R.N., Katki, H.A., Trabert, B., Fox, S.D., Troisi, R. & Houghton, L.C. (2020). Assessing Endogenous and Exogenous Hormone Exposures and Breast Development in a Migrant Study of Bangladeshi and British Girls. *International Journal of Environmental Research and Public Health* **17**(4): 1185.
- **Bentley, Gillian** (2020). Don't Blame the BAME: Ethnic and Structural Inequalities in Susceptibilities to COVID-19. *American Journal of Human Biology* **32**(5).
- Melamed, Philippa, Bar-Sadeh, Ben, Rudnizky, Sergei, Pnueli, Lilach, **Bentley, Gillian**, Stoger, Reinhard & Kaplan, Ariel (2020). Unravelling the role of epigenetics in reproductive adaptations to

early-life environment. *Nature Reviews Endocrinology* **16**: 519-533.

- **Brown, Hannah** (2020). Domestic labor as care and growth in western Kenya. *Anthropology and Humanism* **45**(2): 245-254.
- **Brown, Hannah & Mari Sáez, Almudena** (2020). Ebola separations: trust, crisis, and 'social distancing' in West Africa. *Journal of the Royal Anthropological Institute* **27**(1): 9-29.
- **Chase, Liana E., Gurung, Dristy, Shrestha, Parbati & Rumba, Sunita** (2020). Gendering psychosocial care: Risks and opportunities for global mental health. *The Lancet Psychiatry* **8**(4): 267-269
- Houghton, Lauren C., Troisi, Rebecca, Sommer, Marni, Katki, Hormuzd A., Booth, Mark, Choudhury, Osul A. & **Hampshire, Kate R.** (2020). "I'm Not A Freshie" Culture Shock, Puberty and Growing Up As British-Bangladeshi Girls. *Social Science & Medicine* **258**: 113058.
- Roxburgh, Heather, **Hampshire, Kate**, Tilley, Elizabeth A, Oliver, David M & Quilliam, Richard S (2020). Being shown samples of composted, granulated faecal sludge strongly influences acceptability of its use in peri-urban subsistence agriculture. *Resources, Conservation & Recycling: X* **7**: 100041.
- Roxburgh, Heather, **Hampshire, Kate**, Kaliwo, Tamandani, Tilley, Elizabeth A., Oliver, David M. & Quilliam, Richard S. (2020). Power, danger, and secrecy – a socio-cultural examination of menstrual waste management in urban Malawi. *PLoS ONE* **15**(6): e0235339.
- Yoeli, Heather, Robson, Mary, McLusky, Sarah & **Macnaughton, Jane** (2020). Arts as Treatment? Innovation and resistance within an emerging movement. *Nordic Journal of Arts, Culture and Health* **2**(02): 91-106.
- Harrison, Samantha, **Bierski, Krzysztof**, Burn, Naomi, Mclusky, Sarah, McFaul, Victoria, **Russell, Andrew**, Williams, Gaynor, Williams, Siân & **Macnaughton, Jane** (2020). Dance for people with chronic breathlessness: a transdisciplinary approach to intervention development. *BMJ Open Respiratory Research* **7**(1): e000696.
- **Macnaughton, Jane** (2020). Making Breath Visible: Reflections on Relations between Bodies, Breath and World in the Critical Medical Humanities. *Body & Society* **26**(2): 30-54.
- McGuire, Coreen, **Macnaughton, Jane & Carel, Havi** (2020). The Color of Breath. *Literature and Medicine* **38**(2): 233.
- **Mullard, Jordan Christina Ruth** (2021). Race, Racism and Anthropology: Decolonising Health Inequality in a Time of Covid-19. *Medicine Anthropology Theory*, **8**(1), 1-19. <https://doi.org/10.17157/mat.8.1.5112>
- **Pollard, Tessa**, Guell, Cornelia & **Morris, Stephanie** (2020). Communal therapeutic mobility in group walking: a meta-ethnography. *Social Science and Medicine* **262**:113241.
- **Wagnild, Janelle & Pollard, Tessa** (2020). "Sit yourself down": women's experiences of negotiating physical activity during pregnancy. *Qualitative Health Research* **30**:1072-1082.
- **Wagnild, Janelle & Pollard, Tessa** (2020). Associations between television time and activPAL-measured duration and pattern of sedentary time among pregnant women at risk of gestational diabetes in the UK. *Journal of Physical Activity & Health* **17**:471-474.
- **Russell, Andrew & Oxley, Rebecca** (eds) (2020). Interdisciplinary Perspectives on Breath, Body and World. Special Issue, *Body & Society* **26**(2).

- Molenaar, Jil, Hanlon, Charlotte, Alem, Atalay, Wondimagegn, Dawit, Medhin, Girmay, Prince, Martin & **Stevenson, Edward G. J.** (2020). Perinatal mental distress in a rural Ethiopian community: a critical examination of psychiatric labels. *BMC Psychiatry* **20**(1): 223.
- Staddon, C., Everard, M., Mytton, J., Octavianti, T., Powell, W., Quinn, N., Uddin, S. M. N., Young, S. L., Miller, J. D., Budds, J., Geere, J., Meehan, K., Charles, K., **Stevenson, E. G. J.**, Vonk, J. & Mizniak, J. (2020). Water insecurity compounds the global coronavirus crisis. *Water International* **45**(5): 416-422
- Jeannette Beasley, **Janelle M Wagnild, Tessa Pollard**, Timothy Robertson, **Nasima Akhter** (2020). Effectiveness of diet and physical activity interventions among Chinese-origin populations living in high-income countries: a systematic review. *BMC Public Health*, *20*, 1019. <https://doi.org/10.1186/s12889-020-08805-3>
- Dodd-Reynolds, C. J., Vallis, D., **Kasim, A., Akhter, N.**, & Hanson, C. L. (2020). The Northumberland Exercise Referral Scheme as a Universal Community Weight Management Programme: A Mixed Methods Exploration of Outcomes, Expectations and Experiences across a Social Gradient. *International Journal of Environmental Research and Public Health*, *17*(15), 5297. <https://doi.org/10.3390/ijerph17155297>

## Centre for Global Infectious Diseases

Whilst the COVID pandemic has proven disruptive to both our laboratory-based work and our engagement with international partners, the focus on infectious disease thrust CGID into the spotlight. Lead by the MRC GCRF Global Network for NTDs project manager Dr Mags Leighton, over 30 interviews with local, national and international radio and TV were conducted discussing the biology and disease epidemiology of coronaviruses. Furthermore, CGID's Prof Ehmke Pohl is leading a project to design an improved SARS-CoV-2 assay platform as well the Biosciences inhouse testing programme.

Away from this important responsive action CGID continues to work in a trans-national fashion to combat some of the globe's most pressing health problems. Two projects illustrating this in different fields are highlighted below:

### Highlighted Projects

1. Enhancing cobalamin (vitamin B12) bioavailability in culturally appropriate foods in India. Prof Nigel Robinson with Prof Martin Warren (Kent, PI) and others. BBSRC £1.5M B12 deficiency and insufficiency is a hidden worldwide epidemic of nutrient malnutrition in both developed and developing countries. In India the problem is on a vast scale with an estimated 1 billion people having low levels of this nutrient, partly as a consequence of widely practiced vegetarianism. Combining expertise in the UK with that in India, this project is developing biotechnologies to provide large quantities of purified B12 as a supplement. The technology developed will then be established in Indian manufacturing.

2. Deconvoluting the mode-of-action of novel anti-Chagas and anti-leishmanial compounds.

Prof Paul Denny (PI), Prof Patrick Steel, Prof Ehmke Pohl and Dr Brian Mantilla with GSK, Prof Jeremy Mottram (York), Prof Carlos Robello (IPM, Uruguay), Prof Iqbal Choudhary (IICB, Karachi), Prof Santuza Teixeira (UFMG, Brazil) and Dr Ashish Aurora (CDRI, India). Tres Cantos Open Lab Foundation co-funded with GCRF MRC £660k.

Caused by the kinetoplastid protozoa *Leishmania* species and *Trypanosoma cruzi*, the Neglected Tropical Diseases leishmaniasis and Chagas disease represent a major and increasing threat to the health of individuals in the developing world. A small number of toxic drugs are the mainstay of treatment and control. To develop new therapies it is necessary to identify essential parasitic processes (drug targets) and compounds that disrupt these. In this trans-national project 17 anti-kinetoplastid compounds are being analysed identify their mode of action – knowledge essential for further development towards new therapies.

### **Key Papers:**

Mina, J.G.M., Charlton, R.L., Alpizar-Sosa, E., Escrivani, D.O., Brown, C., Alqaisi, A., Borsodi, M.P.G., Figueiredo, C.P., de Lima, E.V., Dickie, E.A., Wei, W., Coutinho-Silva, R., Merritt, A., Smith, T.K., Barrett, M.P., Rossi-Bergmann, B., **Denny, P.W. & Steel, P.G.** (2021) Antileishmanial chemotherapy through clemastine fumarate mediated inhibition of the *Leishmania* inositol phosphorylceramide synthase. *ACS Infectious Diseases* 8:47-63.

**Mantilla, B.S., Kalesh, K.,** Brown, N.W. Fielder, D. & Docampo, R. (2020) Affinity-based proteomics reveals novel targets of inositol pyrophosphate (5-IP<sub>7</sub>)-dependent phosphorylation and binding in *Trypanosomacruzi* replicative stages *Molecular Microbiology*, Early View.

Zohib, M, Maheshwari, D., Pal, R.K., Freitag-Pohl, S., Biswal, B.K., **Pohl, E.** & Arora, A. (2020) Crystal structure of the GDP-bound GTPase domain of Rab5a from *Leishmania donovani*. *Acta Cryst F* 76:544-556.

Stewart, L.J., Ong, C.Y., Zhang, M.M., Brouwer, S., McIntyre, L., Davies, M.R., Walker, M.J., McEwan, A.G., Waldron, K.J. & **Djoko, K.Y.** (2020) Role of Glutathione in Buffering Excess Intracellular Copper in *Streptococcus pyogenes*. *mBio* 11(6): e02804-20.

Cai, Y., Usher, B., Gutierrez, C., Tolcan, A., Mansour, M., Fineran, P.C., Condon, C., Neyrolles, O., Genevaux, P. & **Blower, T.R.** (2020). A nucleotidyltransferase toxin inhibits growth of *Mycobacterium tuberculosis* through inactivation of tRNA acceptor stems. *Science Advances* 6(31): eabb6651.

## Behavioural Endocrinology and Physiology Lab Wolfson Report

### Profs Gillian Bentley and Ann MacLarnon

Following the closure of the Durham Endocrinology and Ecology Lab at the Wolfson Research Institute on Queen's Campus (QCS), a new laboratory has been under construction in the Dawson Building in Durham that will replicate and extend the services and research that we formerly undertook at QCS. The new lab is called the BEP lab (Behavioural Endocrinology and Physiology) and extends its work to non-human primates. It is co-directed by Professors Gillian Bentley and Ann MacLarnon and managed by Val Affleck. The new lab has been built from scratch after renovating suitable rooms in the Dawson Building and is now completely set up for work (Pandemic permitting). The Lab has the capability of assaying several hormones, ranging from reproductive to stress, and can perform assays in many different mediums including blood, saliva, urine, faeces, and hair. Key facilities include a serviced Biotek plate reader and washer for performing ELISA assays, fridge and -80° and -20° freezer space with an electronic temperature logging system and remote messaging, deionised water, small bench and liquid handling apparatus, a high capacity, multi-use refrigerated centrifuge, and incubator. BEP is a Human Tissue Authority (HTA) approved facility and listed by Durham University's Analytical Services. We have storage capacity at both that are fully alarmed in case of electrical emergencies with back-up systems at hand. Work has started to validate assays and procedures, ready for the start of analyses (when conditions permit) of faecal samples of glucocorticoid metabolites and thyroid hormone levels reflecting stress in wild baboons in South Africa (AM). GB submitted an MRC grant to study early life development and adrenarche in middle childhood in Bangladeshi girls with collaborative work on epigenetics with other institutions. We are happy to collaborate across campus with other researchers who may wish to examine hormone levels as part of their projects. Please do get in touch if you are interested.

### Relevant Publications

- N Smith, LL Sievert, S Muttukrishna, K Begum, L Murphy, T Sharmeen, R Gunu, O Chowdhury, **GR Bentley** (2021) Mismatch: A comparative study of vitamin D levels in British-Bangladeshi migrants. *Evolution, Medicine and Public Health*, eoab001, <https://doi.org/10.1093/emph/eoab001>
- **GR Bentley** (2020) Don't blame the BAME: Ethnic and Structural Inequalities in Susceptibilities to COVID-19. Invited Commentary for *American Journal of Human Biology* 32(5) e23478 <https://doi.org/10.1002/ajhb.23478>. Special Issue: Human Biologists Confront the COVID-19 Pandemic
- S Keestra, **GR Bentley**, A Núñez-de la Mora, LCHoughton, H Wilson, A Vázquez-Vázquez, GD Cooper, F Dickinson, P Griffiths, BA Bogin, M Inês Varela-Silva (2020) The timing of adrenarche in Maya girls, Merida, Mexico. *American Journal of Human Biology*, early view, 9<sup>th</sup> July, <https://doi.org/10.1002/ajhb.23465>
- B Bar-Sadeh, S Rudnizky, Li Pnueli, **GR Bentley**, R Stöger, A Kaplan, P Melamed (2020) Unravelling the role of epigenetics in reproductive adaptations to early-life environment. *Nature Reviews Endocrinology*, 3<sup>rd</sup> July, <https://doi.org/10.1038/s41574-020-0370-8>

- RE Howland, NC Deziel , **GR Bentley**, M Booth, OA. Choudhury, JN Hofmann, RN Hoover, HA Katki , B Trabert, SD Fox , R Troisi, LC Houghton (2020) Assessing Endogenous and Exogenous Hormone Exposures and Breast Development in a Migrant Study of Bangladeshi and British Girls. *International Journal of Environmental Research and Public Health*, Special issue “Breast Cancer Health Disparities and Prevention”. Feb 13;17(4):1185. doi: 10.3390/ijerph17041185.

## Centre for Research into Violence and Abuse (CRiVA)

In 2020 CRiVA, along with most of the rest of the world, had to change their working methods and priorities to respond to the global Covid-19 pandemic. One of the ways we responded was to move our CRiVA seminar series online and we held a number of web-based events throughout the year. We found that we got higher numbers of attendees online than we got in person, and of course the webinars were more easily attended by international delegates than our in-person events had been. What was interesting though was that even people who were based in Durham said that they also found it easier to attend – they were able to attend from their desk instead of needing to walk across the university and that this was also useful to them. We will have some decisions to make about the way that CRiVA runs its events in the future post Covid-19 restrictions.

We also engaged in a number of projects in 2020 that were specifically linked to Covid-19 and helping frontline workers in particular respond.

Some of our Covid-19 specific projects are listed below.

Burrell, S.R. and Ruxton, S. (2020) 'The impact of the Covid-19 crisis on work with men and boys in Europe.', Project Report. Durham University. <https://dro.dur.ac.uk/32238/>

Westmarland, N. and Burrell, S.R. and Dhir, A. and Hall, K.E. and Hasan, E. and Henderson, K. (2021) "Living a life by permission': The experiences of male victims of domestic abuse during Covid-19.', Project Report. Durham University. <https://www.dur.ac.uk/resources/criva/LivingALifeByPermission.pdf>

In terms of research funding for Covid-19 work, Dr Jelly Johnson received funding from the ESRC for a national police project, investigating the impact of Covid-19 on domestic abuse. This project is being conducted in partnership with Dr Katrin Hohl (PI), seven police forces, the Home Office, the College of Policing and the National Police Chiefs Council. For more information, please see: <https://www.dur.ac.uk/research/news/item/?id=42387&itemno=42387>

Although we are a research centre, we are also very proud of our increasing number of violence and abuse related modules within the Department of Sociology which are taken by our Sociology and our Criminology students as well as Combined Honours students and students from a very wide range of programmes across the University. Added to our existing undergraduate second year module on violence and abuse in society and our postgraduate module on Gender, Violence and Abuse we were pleased in 2020 to add two brand new ten

credit modules to our offer – one on Feminist Activism (led by Dr Fiona Vera Gray) and one on Justice, Violence and Abuse (led by Professor Nicole Westmarland and Dr Stephen Burrell).

To join us please contact [durham.criva@durham.ac.uk](mailto:durham.criva@durham.ac.uk)

## **Early Career Researchers**

As the Wolfson Research Institute for Health and Wellbeing (WRIHW) moves into its 18th year of existence, it does so with a renewed focus on the importance of nurturing its early career research (ECR) community. Our ECR community mirrors the interdisciplinary commitment of the WRIHW, with PhD students in anthropology illuminating a brighter side to Ayahuasca tourism in South America, peers in bioscience ironing out some truths about dementia, and a wide variety in-between. Improving health and wellbeing is not restricted to a particular academic discipline, and neither are we.

The main goals of the ECR committee are as follows:

- To increase the sense of community between ECRs within the WRIHW
- To increase the visibility of ECRs within the WRIHW, and to wider audiences
- To offer ECRs within the WRIHW opportunities to develop their research, CV's, and understanding of what a career in research can look like.

In order to achieve these goals, we need to hear from you. Please contact a committee member via our dedicated website. You can also get more information, as well as links to our social media. <https://www.dur.ac.uk/wolfson.institute/esr/>

## **Postgraduate Associate Scheme**

The Institute launched a Postgraduate Associate Scheme in 2012 with 50 Associates and more joining every week. The scheme is open to all Postgraduates, from any department within the University, who are a registered postgraduate taught or research student at the University. The taught course or research project undertaken must fall broadly within one of the Institute's three themes. Postgraduate Associates have access to all of the Institute's seminars, lectures and workshops. For more information, please visit <https://www.dur.ac.uk/wolfson.institute/fellowships/postgraduate/>

## Fellows Publications 2020

Dr Nasima Akhter

### Journal Article

- Beasley, JM, **Wagnild, JM**, **Pollard, TM**, Roberts, TR & **Akhter, N** (2020). [Effectiveness of diet and physical activity interventions among Chinese-origin populations living in high income countries: a systematic review](#). *BMC Public Health* **20**: 1019.
- **Dodd-Reynolds, CJ**, **Vallis, D**, **Kasim, A**, **Akhter, N** & Hanson, C (2020). [The Northumberland Exercise Referral Scheme as a universal community weight management programme: a mixed methods exploration of outcomes, expectations and experiences across a social gradient](#). *International Journal of Environmental Research and Public Health* **17**(15): 5297.
- McGowan, V.J., **Akhter, N.**, Halliday, E, Popay, J, **Kasim, A** & Bambra, C,1,2 (Accepted). [Collective control, social-cohesion and health and wellbeing: Baseline survey results from the Communities in Control Study in England](#). *Journal of Public Health*

Dr Ben Alderson-Day

### Journal Article

- **Foxwell, John**, **Alderson-Day, Ben**, **Fernyhough, Charles** & **Woods, Angela** (2020). [‘I’ve learned I need to treat my characters like people’ Varieties of agency and interaction in Writers’ experiences of their Characters’ Voices](#). *Consciousness and Cognition* **79**: 102901.
- **Alderson-Day, Ben**, **Moffatt, Jamie**, **Bernini, Marco**, **Mitrenga, Kaja**, Yao, Bo & **Fernyhough, Charles** (2020). [Processing Speech and Thoughts during Silent Reading: Direct Reference Effects for Speech by Fictional Characters in Voice-Selective Auditory Cortex and a Theory-of-Mind Network](#). *Journal of Cognitive Neuroscience* **32**(9): 1637-1653.
- Kafadar, Eren, Mittal, Vijay A., Strauss, Gregory P., Chapman, Hannah C., Ellum, Lauren M., Bansal, Sonia, Gold, James M., **Alderson-Day, Ben**, Evans, Samuel, Moffatt, Jamie, Silverstein, Steven M., Walker, Elaine F., Woods, Scott W., Corlett, Philip R. & Powers, Albert R. (2020). [Modeling perception and behavior in individuals at clinical high risk for psychosis: Support for the predictive processing framework](#). *Schizophrenia Research* **226**(December): 167-175.
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Professor Carrie A. Ambler

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Miss Katherine Atherton

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Dr Anthony Atkinson

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Professor Sarah Atkinson

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Prof Helen L. Ball

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Professor Sarah Banks

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Dr Nadin Beckmann

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Prof Jens Beckmann

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Prof Gillian Bentley

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Professor Vikki Boliver

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Professor Lynda Boothroyd

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Professor Toby Breckon

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Dr Hannah Brown

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Emeritus Professor David Budgen

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Dr Stephen Burrell

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Camila Caiado

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Professor Martin Cann

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Prof Brian Castellani

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Professor Emma Cave

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Ms Helen Charnley

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Dr Atanu Chaudhuri

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Dr Paul Chazot

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Dr Laura Clark

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Prof Charlotte Clarke

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Prof. Steven Cobb

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Professor Christopher C. H. Cook

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Frank Coolen

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Tahani Coolen-Maturi

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Dr Judith Covey

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Dr Helen Cramman

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Dr Vincent Croset

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Professor Sarah Elizabeth Curtis

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Professor Douglas James Davies

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Dr Michelle W. de Gruchy

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Professor Paul Denny

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Dr Graham Dietz

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Dr Caroline Dodd-Reynolds

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Professor Alexander Easton

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Professor Amanda Ellison

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Professor Olga Epitropaki

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Professor Kiran Fernandes

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Professor Charles Fernyhough

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Professor Andrew Gallant

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Dr Lian Gan

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Prof John Girkin

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Prof Stephen Gorard

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### Professor Rebecca Gowland

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Dr Patrick Gray

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Dr Helen Gray

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Professor Simon Hackett

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Professor Kate Hampshire

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Dr Mary Hanley

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Professor Markus Hausmann

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Prof Steve Higgins

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Dr Frances Hillier-Brown

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Dr Karen Hind

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Prof. Claire Horwell

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Professor Ray Hudson

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Dr Fusako Innami

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Dr Kimberly Jamie

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Dr Alison Jobe

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Professor Karen Johnson

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Dr Akis (Iakowos) Karakesisoglou

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Professor Adetayo Kasim

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Professor Bob Kentridge

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Dr Alison Lane

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Dr Colin Lever

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Dr Susan Lewis

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Prof Steve Lindsay

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Dr Iain Lindsey

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Professor Jane Macnaughton

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Dr Laura Mazzoli Smith

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Professor Anthony McGregor

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Victoria Menzies

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Prof Christine Merrell

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Professor Tiago Moreira

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Dr Emily J. Oliver

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Dr Rebecca Oxley

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Professor Joe Painter

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Professor Shaun Pattinson

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Dr Andrej Petrovic

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Dr Cassandra Phoenix

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Prof. Ehmke Pohl

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Professor Tessa M. Pollard

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Dr Stacey Pope

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Mr Michael Priestley

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Prof Roy Andrew Quinlan

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Professor Nadja Reissland

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Professor Deborah Riby

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Professor Emeritus Charlotte Roberts

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Dr Andrew J. Russell

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Dr David Sanderson

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Professor Corinne Saunders

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Professor Beng Huat See

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Dr Gary Sharples

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Dr Nadia Siddiqui

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Professor Bob Simpson

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Dr Benedict Smith

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Professor Daniel T. Smith

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Prof Roger Smith

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Prof. Jonathan W. Steed

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Professor Carolyn Summerbell

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Dr Catherine Taylor

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Professor Jamie Tehrani

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Dr Lore Thaler

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Prof Kevin Tipton

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Prof Carole Torgerson

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Professor Graham Towl

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Dr Leanne Trick

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Prof Peter Tymms

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Dr Milica Vasiljevic

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