

Wolfson Research Institute for Health and Wellbeing



Annual Report 2018

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Message from the Executive Director

This has been a consolidatory year in which we have continued to engage internal and external stakeholders and partners.

As an interdisciplinary Institute, our vision is to support groupings of academics and stakeholders that can address the beginning, the middle and the end of a problem. In academia, we are often very good at identifying problems (the beginning) and quantifying the extent of their influence (the middle) but we are less good at sharing different viewpoints of these aspects to produce a demonstrable and generalizable solution (the end). By encouraging the formulation of such groups and including stakeholders (e.g. end-users, service providers, industry partners) in the process, we can address issues relating to Health and Wellbeing in a holistic and robust way.

As you will see in the following pages, many of our groups have evolved over the past year to address predictive markers, from ill health to efficacy of interventions. By re-introducing the individual as a valuable resource, we can use our shared knowledge and expertise to create, evidence and choose appropriate solutions such that we can help all of the people all of the time instead of some of the people some of the time.

In July, a university wide Health Strategy Development Group was established with a view to scoping the health related research that is happening across faculties and designing a way in which this can best be supported to be as successful as it can be. WRIHW fellows have fed into this process in a very fruitful way and we continue to encourage fertile collaborations between Institutes themselves in order to fulfil the University Strategy. We continue to represent our fellows outside of the University and include them where possible in regional funding application development (e.g. Northern Pain Network, N8 ICSF Wave 2, Applied research Collaboration) and industrial partnerships.

Our support of ECRs continues as it is central to our strategy that we instil interdisciplinarity into the next generation of health researchers. We have increased our support of early career researchers (ECR), establishing a WRIHW ECR committee and support them in the organisation of a yearly conference and, at least, termly events. By growing our community of ECRs, we ensure that interdisciplinarity and its usefulness as a tool is engrained in the next generation of academics whilst exposing them to new methodologies and viewpoints to inform their intellectual development.

In addition to our activity on social media, our engagement with our fellowship has also changed with the publication of a biweekly newsletter (see here for the archive <https://www.durham.ac.uk/wolfson.institute/newsletter>) that keeps our fellows up to date with happenings across the Institute and the sector. This development has been well received by fellows.

In the following report, you will see the progress that the Special Interest Groups and Centres we have supported. I hope you will join me in congratulating them on their exciting work and initiatives. As Executive Director, I would like to take this opportunity to express my thanks for the hard work and dedication of our Administrator Suzanne Boyd in addition to our Statistics Team led by Dr Adetayo Kasim all vital to the success of our groups and centres.

A handwritten signature in blue ink that reads "Amanda Ellison". The signature is written in a cursive style. The background behind the signature consists of several overlapping semi-circles and circles in shades of yellow, orange, and red.

Professor Amanda Ellison

Meet the Wolfson Team

Professor Amanda Ellison

Executive Director



Amanda is neuroscientist and Associate Professor (Reader) in the Psychology Department. Interested in the neural basis of behaviour, her research projects cover a broad spectrum of disciplines from medicine through psychology to physics. She has been active in the Wolfson community since 2002 and has been Executive Director since 2015.

In addition to being involved in the strategic development of the Institute, Amanda also sits on the Science Faculty Research Committee, is the Director of Impact for Psychology and is the director of the Cognitive Neuroscience Research Unit that seeks to bridge the gap between basic research related to how the brain works with effective rehabilitation paradigms when behaviour is affected by brain damage.

Amanda is passionate about academic communication and to this end, she writes popular science books and is frequently asked for comments by the media and to give after-dinner speeches.

Dr Adetayo Kasim

Associate Professor (Research)



Adetayo is an expert in statistical methodology and its application in health and wellbeing. He is a member of Anthropology department. He is a chartered fellow of the Royal Statistical Society and works with colleagues across different departments in the university.

Adetayo's research interests include the development and application of statistical methods in chemo-genomics, global health, and health inequality, clinical and social trials. Adetayo regularly publishes in scientific journals and engages in national and international research meetings, workshops and conferences. Adetayo supervises PhD students at Durham University and externally at Centre for Statistics, University of Hasselt Belgium.

He is a member of Durham's evaluation team for Education Endowment Foundation. He collaborates with clinicians from NHS Trusts through Research Design Service-North East. Adetayo is a Visiting Professor at University of Gondar, Ethiopia and a Co-Director of the university's Research Centre for Epidemiology and Biostatistics.

Adetayo also engages in statistical consulting and industrial collaboration, including with Janssen Pharmaceutical, Beerse, Belgium and Zoetis, Zaventem, Belgium.

Dr Nasima Akhter

Assistant Professor (Research)



Nasima Akhter is a member of Wolfson Research Institute of Health and Wellbeing and Department of Anthropology at Durham University. She has over 15 years' experience in quantitative research, specialising in evaluation of health interventions, project monitoring and data analysis. She is experienced in global health and nutrition, especially in the context of Asian countries. She teaches statistical concept and analytical methods to non-statisticians, facilitates grant applications and support scientific publications.

Her areas of interest include evaluation of complex interventions, health inequality, gender, maternal nutrition, Bangladeshi diaspora in UK. She previously worked as a quantitative researcher for the Helen Keller International Bangladesh's Nutritional Surveillance Project, Homestead Food Production Program. She has also previously consulted for the WHO, UNHCR, Save the Children.

Mrs Suzanne Boyd

Administrator and PA



Suzanne is the Administrator 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 and the Wolfson Funding Scheme. 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.

Wolfson Funded Projects

Every year the Wolfson Research Institute for Health and Wellbeing opens a competitive funding scheme for research within the Institute's remit that is designed to lead to the submission of an externally funded large grant proposals within 12 months of completing the WRIHW grant.

This year the Institute supported Wolfson Centres, SIGS and individual projects to the value of £57,569 (11 awards). From August 2019, all internal funds will be managed by the [University's central Seedcorn fund](#).

Highlighted Research from our Fellowship

Health Interventions in Volcanic Eruptions ([HIVE](#))

In order to determine the effectiveness of different forms of respiratory protection for community exposures to fine particles, it is necessary to not only investigate the efficacy of the masks themselves but also to determine whether there is a measurable health benefit from wearing protection.

Yet, even if it is shown that wearing certain masks can improve health outcomes, there will be many people who will refuse to wear the recommended masks and it is critical to determine the motivations that influence these decisions, whether they be environmental, cultural or simply related to comfort and fashion.

As many agencies distribute light-weight 'surgical-style' masks, it is also crucial that we consider whether these masks are effective at blocking fine particles.

Communities suffer great anxiety when ash is in the air as there is little advice available to say whether breathing in the ash is safe. If these light-weight masks reduce anxiety, yet are not effective, it is very important that agencies are aware of this, in order that they stop providing interventions that provide a false sense of security.

Many people use their own interventions to protect themselves. They may be a bandana tied over the mouth or nose, a veil, handkerchief or t-shirt held over the face, a mask designed for motor scooter wearers or even a 'fashion' mask commonly worn by scooter passengers in Indonesia. The HIVE Consortium will also investigate whether these forms of protection are effective. Perhaps they may even be more effective than other light-weight options.

The HIVE Consortium is taking a three-stage, interdisciplinary, multi-location approach to provide a comprehensive evidence base addressing effectiveness, health impact and factors relating to use of respiratory protection.

The relaunch of the FUSE @ Durham network

Last year, we hosted a relaunch event to re-engage and connect with Durham University researchers whose interests fall within the remit of public health and translational research. A number of Durham University staff, whose interests may align with Fuse's research programmes were invited to join the network and attend the relaunch event. Held on the 2nd of November, the relaunch event was attended by 40 people, from 11 Durham University departments, including Physics, Psychology, Business School, Education, Sport and Anthropology. The invigorated conversation that continued beyond the planned programme proved that the event provided an ideal interdisciplinary platform for a diverse set of researchers to share their work and ideas. Following the successful relaunch, Fuse at Durham now claims a network of members across 14 departments with over 60 members. Some of these members are now making a meaningful contribution to the key research themes of Fuse, including the Complex Systems theme.

We intend to build on the interest that was created during the relaunch through enabling new cross-department collaborations as well as through supporting established research groups. Towards this end, Fuse at Durham supported a successful seminar hosted by the Health and Social Theory Research Group (Department of Sociology) titled Complexities and Fluidities in health, which was held on the 11th December. External key speakers from Cambridge and London were included in the programme. Fuse at Durham also supported a vibrant Physical Activity Workshop in December, which brought together academic and practice staff from across the North East. In future, the events will be directed towards facilitating cross-institution research across the Fuse network of universities to promote our non-academic partnerships and engagement opportunities, emphasising the important co-production and knowledge exchange approach to Fuse projects.

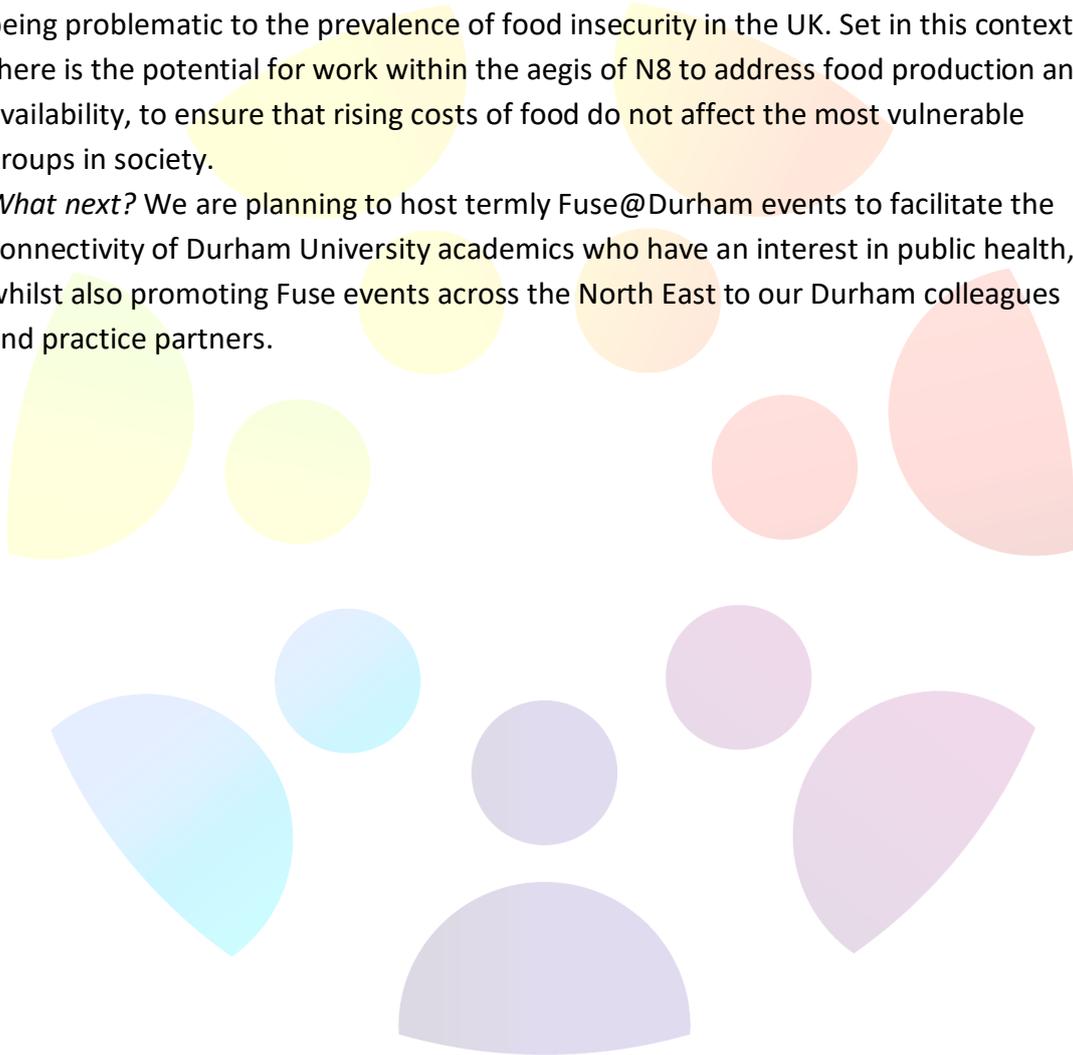
N8 AGRI-FOOD Food Insecurity and Obesity meeting

On the 31st October to 1st November, experts in Food Insecurity and Obesity met at Durham University for a two-day meeting to explore the current literature, state of play, and potential future research opportunities in relation to the topic. Chaired by Professor Carolyn Summerbell, this meeting was attended by a multi-disciplinary team of academics from the universities of Durham, Newcastle, York, Leeds, Liverpool and Sheffield.

Key concerns raised during the meeting featured the need for the UK to develop and routinely implement a measurement system for Food Insecurity, in order to better understand the specific UK context. The need to explore the theoretical underpinnings between food insecurity and obesity was an issue that was highlighted as a priority to help inform policy.

As a result of the meeting, there is enthusiasm to host symposium events at both the UK Congress on Obesity and the N8 Agrifood Conference (both in 2019) to demonstrate the significance and challenge of food insecurity and obesity. Linking to policy, the imminent impact of Brexit on food prices and availability was identified as being problematic to the prevalence of food insecurity in the UK. Set in this context, there is the potential for work within the aegis of N8 to address food production and availability, to ensure that rising costs of food do not affect the most vulnerable groups in society.

What next? We are planning to host termly Fuse@Durham events to facilitate the connectivity of Durham University academics who have an interest in public health, whilst also promoting Fuse events across the North East to our Durham colleagues and practice partners.



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 2018, the Teesside Aneurysm Group continued its multidisciplinary approach towards an understanding of why some aneurysms rupture and some do not.

Over this period, we built a database of physical measurements on aneurysms and their inflow and outflow vasculature which allowed for a robust statistical analysis of which of these factors has the most predictive power over the subsequent rupture of the aneurysm.

The group is also actively collecting PPI data to establish the need for this research not least by quantifying the effect that aneurysms have on surviving individuals and their families. Colleagues in Engineering are looking at flow dynamics which may have an important role and those in computer science are developing a way to segment images to spot aneurysms in a more objective, efficient and inexpensive way. There may be commercialisation potential in this latter endeavours. Socioeconomic analyses are also planned.

Over the next year, TAG will lean on the contacts of the WRIHW to establish a dialogue with the Research Design Service to scope for external Health Economy collaboration and also to scope for appropriate funding pathways.

Smoking Special Interest Group

The Smoking Special Interest Group (SSIG) was established in October 2010. It 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

Conference presentations

- Russell, A. Tobacco in 18th Century Life and Literature. In conference 'The Life of Breath: History, Texts, Contexts', St John's College, Durham University 10-12 July 2018
- Russell, A. Dangerous Movements: Historical and cross-cultural perspectives on tobacco craving. Paper presented at the EASA 2018 Conference 'Staying, Moving, Settling', Stockholm:14-17 August 2018, in the panel 'Movement, stasis and interoception: unsettling the body' (A. Russell, J. Macnaughton and A. Harris (Maastricht), convenors).

Funding Bids and Awards

ESRC-GCRF funding proposal under the 'New Models of Sustainable Development' call, title 'GCRF Decent Work: Understanding current and alternative livelihoods

through co-inquiry action research with bidi workers in South India' Andrew Russell (PI), Sarah Banks (CoI) and Prof Sushil John (Christian Medical College, Vellore – CoI) submitted in January 2018 (£727,918). Unsuccessful, but led to a successful networking grant (see below)

Academy of Medical Sciences, GCRF networking grant application, title '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 – PI) and Andrew Russell (CoI) submitted in August 2018 (£24,945). Successful!

WRIHW Smoking SIG grant enabled Andrew Russell and Megan Wainwright to attend COP8, Geneva in October 2018 (£5995), as well as permitting the attendance of Dr Upendra Bhojani (Institute of Public Health, Bengaluru) – report filed in November 2018. Article on the politics of transparency in global health diplomacy currently in preparation.

Andrew Russell and Jane Macnaughton liaised with Prof Janet Hoek (University of Otago and co-director of ASPIRE2025) on a successful IAS Fellowship application. She will be coming to Durham for Michaelmas term 2019.

Outreach and Engagement

Andrew Russell commenced his work as external sponsor to Dr Upendra Bhojani (Institute of Public Health, Bengaluru)'s successful Wellcome Trust India Alliance Fellowship application for a five year Fellowship 'Deciphering an epidemic of epic proportion: the role of state and tobacco industry in tobacco control in post-liberalized India (1990-2017)'. Dr Bhojani will visit Durham University in 2019.

Russell, A. 'Tobacco: Shape Shifting Substance from South America' – public lecture, Café Scientifique, Stockton, March 20th 2018.

SSIG members participated in Celebrate Science festival as part of the Life of Breath (<https://lifeofbreath.org/>) exhibit, Palace Green, October 2018.

Andrew Russell continues as FUSE representative on the Making Smoking History in the North East partnership board, and is a member of the Smoke Free Durham local alliance. In the latter role he liaised with Occupational Health in the University and Solutions4Health, the company responsible for delivering County Durham's stop smoking services, to set up a weekly stop smoking drop-in service for students and staff which ran in the Palatine Building for three months from January 2018. He has also written a report for Durham County Council titled 'Implementing the WHO Framework Convention on Tobacco Control's Article 5.3 in Durham County Council'. Andrew Russell has joined the international Expert Review Group (IERG) of the UK Prevention Research Partnership (UKPRP), an alliance of UK charities, research councils and health departments pooling their resources to focus on the prevention of non-communicable diseases.

Andrew Russell advised the Life of Breath team on the tobacco-related content of the 'Catch Your Breath' exhibition which opened in Palace Green 24th November 2018 – 17th March 2019.

Publications

Russell, A. *Anthropology of Tobacco: Ethnographic Adventures in Non-Human Worlds*, London: Routledge (ISBN: 9781138485143 (HB); eISBN 9781351050197) submitted for publication on February 20th 2019. Supervised an undergraduate student intern, Courtney Tinnion, in preparing an index for this book.

Russell, A. (2018) "'Imagine a World Without Tobacco": Utopian visions and collaborative research in public health', in Ruy Blanes and Maité Maskens (eds) *Utopian Encounters: Anthropologies of Empirical Utopias*, (Ralahine Utopian Studies Series, Volume 20), Oxford: Peter Lang, pp. 57-90.

Russell, A. (2018) *Can the Plant Speak? Giving Tobacco the Voice it Deserves*. *Journal of Material Culture*, special issue (A. Russell and T. Widger, eds), 23(4): 472-487. <http://journals.sagepub.com/doi/pdf/10.1177/1359183518799516>.

Russell, A., M. Wainwright and M. Tilson, Means and ENDS – E-Cigarettes, the Framework Convention on Tobacco Control, and Global Health Diplomacy in Action (2018) *Global Public Health*, 13:1, 83-98.

<http://dro.dur.ac.uk/17937/3/17937P.pdf?DDD5+dac0kp+d700tmt>

Pain SIG Report

[The Pain Divide: a cross-sectional analysis of chronic pain prevalence, pain intensity and opioid utilisation in England.](#) **Todd A, Akhter N, Cairns JM, Kasim A, Walton N, Ellison A, Chazot P, Eldabe S, Bamba C.** *BMJ Open*. 2018 Sep 11;8(7):e023391.

Pharmacology Matters December Issue (2018) Chronic pain is a serious and growing worldwide problem, and the burden it places on our society is increasing. To manage the symptoms associated with chronic pain, there is heavy reliance on the use of opioid analgesics, although there are limited studies to support their long-term effectiveness. In addition, prolonged use of opioids can also have serious sometimes life-threatening adverse consequences, such as constipation and respiratory failure. Despite these well-acknowledged negative effects, the prescribing of opioid analgesics continues to increase at a significant and worrying rate. Indeed, figures from the UK show that, in 2014, there was around 23 million prescriptions written for opioid analgesics, at a cost of around £322 million. Given this increased use, (and the well-established problems associated with efficacy, tolerance, dependence and adverse effects) the inappropriate prescribing – and misuse – of opioid analgesics is becoming a significant public health concern (<https://www.livewellwithpain.co.uk>). This problem is also mirrored in other countries, such as the US, where the death

rate from opioid misuse has, in the last 15 years, quadrupled – giving rise to the so-called ‘opioid epidemic’. Are we in the UK heading this same way? Based on discussions within our Durham University Pain Special Interest Group and a Public discussion forum held in 2017 in the NE funded by a BPS Ambassador grant, the issues of local opioid prescriptions and pain management were highlighted and this study was initiated.

There is significant geographical variation in opioid prescribing in the UK – with more people in the North of England prescribed opioids – at a greater cost – compared to the rest of England. For example, the North of England accounts for approximately 33 per cent of the total costs of analgesics, compared to London, that accounts for around 8 per cent. It was not clear before our study, however, if this variation was related to inappropriate prescribing or the varying health need of the population (*i.e.* more people in the North of England have pain, hence the prescribing of opioids is higher). It is well documented, though, that mortality and morbidity rates are higher in the North of England, particularly in the North-East region compared to the rest of England: an observation coined the North-South health divide. Given the public health concerns associated with the inappropriate and long-term use of opioid analgesics, it was vitally important then to explore whether the prescribing of opioid analgesics across England reflects inequalities in the health needs of the population or if there an issue related to inappropriate prescribing or utilisation. We are the first to examine the geographical inequalities in chronic pain prevalence, pain intensity, and opioid utilisation in England. As well as this, we were the first to examine the association between chronic pain prevalence and pain intensity and opioid utilisation. We have identified two key findings that will be of importance to healthcare practitioners and policy makers: (1) there are geographical variations in chronic pain prevalence, pain intensity, and opioid utilisation across the English regions – with evidence of a ‘pain-divide’ with people in the North East of England more likely to have chronic pain; (2) opioid utilisation was significantly, and positively associated with pain intensity. Our paper is timely, and shows that, in England, the prescribing of opioid analgesics is largely driven by health need (*i.e.* pain): thus, to develop future strategies going forward, and to avoid a potential ‘opioid epidemic’, it is important that consideration is given to other ways of managing chronic pain, without the use of opioid analgesics. Given our findings, more needs to be done – at a national level – to support prescribers to manage people who have chronic pain, without the need to initiate opioid analgesics, perhaps using more non-pharmacological pain-management strategies (<https://www.paintoolkit.org>).

Another important consideration following on from our study is the growing use of Gabapentin in the UK. Gabapentin is widely considered to be a non-addictive alternative to opioids for chronic pain prescribed to all age groups, but it is not only

prescribed for pain relief. It is also offered to treat other conditions, such as sleep and affective disorders. As a result, some people are taking opioids for pain relief and Gabapentin for other medical conditions. Furthermore, the abuse potential of Gabapentin is well documented, as an agent highly sought after for use in potentiating the effects of opioids. Reclassification of Gabapentin as a controlled substance and the need for more care in prescribing both Gabapentin and opioids together also needs careful consideration going forward. The Pain SIG is planning to investigate this topic extension further. ESRC PhD applications have been submitted through the Departments of Anthropology and Bioscience related to this topic.

Follow-up related study: *BMJ*. 2018 Sep 27;362:k2990. doi: 10.1136/bmj.k2990. What interventions are effective to taper opioids in patients with chronic pain? Sandhu H, Underwood M, Furlan AD, Noyes J, Eldabe S.

Update and promotion of www.livewellwithpain.co.uk during 2018-2019 carried on apace providing action on the UK mini version of the “opioid epidemic” . This site was developed by clinicians (headed by Durham Pain SIG affiliate **Dr Frances Cole**), for clinicians to help you support your patients towards self-management of their long-term pain, and offering an opioid tapering device. This complements the Pain-management plan (PP) developed by Dr Cole and validated in 2016 by **Joanna Quinlan** and the **Durham & Darlington NHS Foundation Trust Pain Management** group (Affiliate member of Durham Pain SIG), and is designed to optimise the use of finite resources and improve wider access to pain management.

The Pain SIG has joined the recently established **Northern Pain Alliance** together with a number of the key universities in the North of England facilitated by the NHTA. A meeting was held in Dec 2018 and a plan was established to take this group forward.

New pharmacological approaches

Chronic pain affects 20% of the European/global population; prevalence increases with age (62% over 75). A MRC CiC grant £50,000 was secured (2019) for a postdoc, Dr Natalie Young (**Chazot & Obara**) **“To probe and validate ZPL-389 , a novel peripheral H₃ histamine receptor antagonist drug, for use in neuropathic nerve injury and orofacial pain: mechanism and efficacy optimisation for translation to the clinic”**

Publication and Patent Outputs currently under review related to this project:

1. Review: Histamine and neuropathic pain *British Journal of Pharmacology* (2019) in press Part of a Themed volume: *Histamine receptor: Therapeutic potential*
2. Original: A peripheral H₃ antagonist ZPL-389: effective and potent chronic neuropathic pain reliever *British Journal of Pharmacology* (2019) in press

3. Original: A natural product high-affinity peripheral histamine binding protein EV-131: use in pruritis and chronic neuropathic pain *British Journal of Pharmacology* (2019) in press
4. Review: Delirium and Histamine: *Frontiers in Pharmacology* 2019 (under review) Part of a themed volume on “*New Targets 21st Century Therapeutics*”

Patent filed and extended P071712WO (Dec 2018): A natural product high-affinity peripheral histamine binding protein EV-131: use in chronic neuropathic pain (**Chazot & Obara with Akari UK**).

Formal Agreement filed for ZPL-389 and Seniforant re-use and validation in Neuropathic pain and itch with **Novartis (Switzerland)** and **Sensorian (France)**, respectively (**Chazot & Obara**)

Physical Activity Special Interest Group

2018 was the year that many of the key partnerships and fledgling proposals supported by early-stage SIG funding came of age. When founded in 2015, the Physical Activity SIG adopted a strategic approach of supporting early stage research proposals, and early career researchers, aiming to support innovative ideas that might find traditional funding hard to capture. This method is very much aligned with the Wolfson Institute’s approach of pump-priming ideas and bringing together researchers to focus on providing solutions, as opposed to re-evidencing problems. Investment in the Physical Activity SIG enabled the growth of now-established networks of researchers and programmes of research that have proved capable of attracting competitive funding, and developing outputs making a difference in national systems. Below we summarise how SIG funding has supported some of our specific areas of research, focusing on progress in 2018.

In addition to research activities, the reputation of the SIG and its members has grown. We are now recognised as stakeholders and consulted on revisions in NICE guidelines, with our published contributions amending the recent review of NICE PH54 (<https://www.nice.org.uk/guidance/ph54>). Further, three SIG group members were invited as expert members to the recent scientific consensus meetings informing the CMO’s new UK Physical Activity Guidelines. This led to us hosting a Fuse-supported workshop here in Durham, December 2018, focused on physical activity policy implementation, attended by the lead author of the national guidelines as well as representatives from the Department of Health, and regional practitioners and policy makers. Our contributions to national physical activity consultations can be found on the WRI website. Membership of the PA SIG and of the Wolfson Research Institute has facilitated internal collaborations across several Departments of the University, namely the Department of Sport and Exercise

Sciences, the Department of Biosciences, the Department of Computer Science and the Department of Anthropology. These collaborations have resulted in collaborative cross-Departmental research funding bids (currently under review, see below) and strengthening of ongoing research projects in health, from multidisciplinary approaches.

Research Example: Improving design and delivery of Exercise Referral Schemes.

Arriving at Durham in 2014 as an early career researcher, Dr Oliver used Wolfson SIG funding to develop a partnership with researchers based in The Centre for the Development and Evaluation of Complex Interventions for Public Health Improvement (DeciphR) at Cardiff University. This led to her involvement as a Co-Investigator on a three-year nationwide trial embedding new technology into exercise referral schemes, funded by Health and Social Care Research Wales. Subsequent SIG funding brought the trial lead to Durham in 2015, for a symposium sharing emerging findings with national academic, practice and industry partners. SIG funding also supported Dr Oliver's attendance at a policy forum focused on physical activity, reinforcing impact pathways to ensure findings can shape on-going funding and delivery of Wales' exercise referral programmes. In 2018, the trial findings were accepted for publication in the Journal of Medical Internet Research, the number 1 ranked journal globally for digital health.

SIG group members have also led on exercise referral scheme enhancement based in the North East of England. This work, focusing on inequalities experienced by those referred to traditional schemes, is highlighting how schemes can work more effectively for all, and additionally trialling new methods to support those with greater need. Dr Coral Hanson, now a postdoctoral research fellow at Edinburgh Napier University, was supported by WRI as a PGR student also working in practice. This exercise referral work is internationally recognised, and a second PhD paper has recently accepted by BMJ Open (co-authored by Drs Oliver and Dodd-Reynolds). The WRI also funded Coral as a research assistant on a further evaluation with Dr Dodd-Reynolds and Dr Oliver which explores an alternative referral scheme being trialled for overweight and obese patients in the region. A further paper is in prep. looking at equity of weight loss for the traditional scheme and supporting alternative approaches to weight management. All of these publications have important messages about the importance of considering local context in successful public health delivery.

Finally, Tessa Pollard is Co-I on an NIHR grant funded in 2018 on 'The impact of a community-based social prescribing intervention on people with type 2 diabetes in

north-east England: a mixed methods study', which examines the experiences of patients referred by GPs to a service that links patients with organisations offering exercise programmes, such as Active Newcastle. Dr Pollard's involvement with this project arose out of a Wolfson funded small grant to use ethnographic methods to understand women's participation in walking grants; the NIHR funds two RAs to use the same methods with social prescribing service users.

Key Outputs published and accepted in 2018: (bold author = SIG member)

- Moffatt S, Wildman J, **Pollard TM**, Penn L, O'Brien N, Pearce MS, Wildman JM (2019) Evaluating the impact of a community-based social prescribing intervention on people with type 2 diabetes in North East England: mixed-methods study protocol. *BMJ Open* **9**:bmjopen-2018-026826. doi: 10.1136/bmjopen-2018-026826
- **Hanson, C.L., Oliver, E.J., Dodd-Reynolds, C.** & Allin, L. (accepted). How do participant experiences and characteristics influence engagement in exercise referral? A qualitative longitudinal study of a scheme in Northumberland, United Kingdom. *BMJ Open*.
- Hawkins, J., Edwards, M., Charles, J., Russell, J., Kelson, M., Morgan, K., Murphy, S., **Oliver, Oliver, E.J.**, Simpson, S., Tudor Edwards, R. & Moore, G. (Accepted). Acceptability and feasibility of implementing accelerometry-based activity monitors and a linked web portal in an exercise referral scheme: A mixed-methods feasibility randomized controlled trial. *Journal of Medical Internet Research*.
- Rudman, H., Birrell, F., Pearce, M., Tuck, S., Francis, R., **Hind, K.** (Accepted) Obesity, bone density relative to body weight and prevalent vertebral fracture at age 62 years: the Newcastle Thousand Families Study. *Osteoporosis International*

Papers in preparation and under review:

- **Dodd-Reynolds, C.J., Nevens, L., Oliver, E.J., Finch, T., Lake, A.L., Hanson, C.L.** (under review). Prototyping in public health practice: demonstrating a streamlined implementation process with a community-based weight management programme (Momenta). *BMJ Open*.
- **Hind, K.,** Hayes, L., Basterfield, L., Pearce, M., Birrell, F. (under review) Objectively-measured sedentary time, physical activity and bone strength in adults aged 62 years: the Newcastle Thousand Families Study. *Journal of Public Health*
- Forsyth, J., Evans, A.L., **Hind, K.,** Paskins, Z., Babatunde, O. (under review) Exercise interventions for preventing and treating low bone density in the wrist and forearm: a systematic review and meta-analysis. *Osteoporosis International*

- **Chapman, P., Oliver, E.J., Dodd-Reynolds, C., Summerbell, C., Lindsey, I.** (under review.) Policy coherence for childhood obesity? Examining coherence of policies for obesity, healthy eating and physical activity in England (May 2010-May 2017). *Health Policy*.
- **Wagnild JM, Hinshaw K, Pollard TM** (under review) Associations of sedentary time and self-reported television time during pregnancy with incident gestational diabetes and plasma glucose levels in women at risk of gestational diabetes in the UK. *BMC Public Health*.
- Morris SL, Guell C, **Pollard TM** (in prep.) Group walking as a “lifeline”: understanding women’s participation in outdoor walking groups. *To be submitted to Social Science and Medicine*
- **Dodd-Reynolds, C.J., Kasim, A., Akhter, N., Hanson, C.L.** (in prep.) Evaluation of the Northumberland Exercise on Referral Scheme: Weight loss, physical activity and differential effects between sociodemographic sub-groups in overweight and obese referrals. *To be submitted to Journal of Public Health OR BMC Public Health*

Where Next? Key grants (supported by the WRI) obtained and submitted in 2018:

Awarded December 2017:

Lafortune, L., Buckner, S., Mattocks, C., **Oliver, E.J.**, Barnes, A., Jordan, H., Reynolds, J., & Pope, D. Developing Age-Friendly Rural Communities: the contribution of local participatory planning processes. *NIHR School of Public Health Research*.

Awarded February 2018:

Moffatt S, Wildman J, **Pollard TM**, Penn L, O’Brien N, Pearce MS. Impact of a community based social prescribing intervention on people with type 2 diabetes in an ethnically diverse area of high socio-economic deprivation. Exploiting a natural experiment to evaluate effects on health and health care utilisation with economic assessment and ethnographic observation. *NIHR School for Public Health Research*

Dr Pollard’ involvement, as lead for the ethnographic component of the project, arose directly from the Wolfson funded small grant using ethnographic methods to understand women’s participation in walking groups (walking groups and exercise programmes are a core part of the social prescribing intervention).

Submitted Sept. 2018:

Stokes, M., McDonough, S., **Dodd-Reynolds, C.** et al...

SusTaining physical Activity IN Adults with multimorbidities (STAmINA). *NIHR HTA*.

This bid was supported by funding from WRI for Dr Dodd-Reynolds' travel to Southampton to work on the bid with other co-investigators.

Submitted Oct. 2018:

Hind, K., Chazot, P., Kasim, A., **Oliver, E.J.**, Obaro, B., (Durham University) and 14 partner EU countries. Personalising Exercise Medicine for Osteoarthritis (PEMOA). Submitted to European Commission, Horizon 2020 SC1-2019

Submitted Dec. 2018:

Satish A, **Dodd-Reynolds, C.J.**, **Hind, K.** Lifestyle interventions for the prevention and management of osteoporosis in India. Submitted to Scheme for the Promotion of Academic Research and Promotion (SPARC). Government of India.

Submitted January 2019:

Dodd-Reynolds, C.J., **Kind, K.**, Swainson, M., **Lindsay, I.**, and **Summerbell, C.** Subsidised school milk and child health: exploration of policy implementation and pilot feasibility of outcome measures. Submitted to N8 Agrifood Pump Priming.

Stroke Special Interest Group

The stroke special interest group was established in the summer of 2018, with the aim to explore issues that affect stroke survivors. The interdisciplinary team works with healthcare professionals and stroke survivors to understand experiences surrounding stroke, with the ultimate goal being to develop ways to improve functioning and quality of life. Further details about the SIG can be found on the webpage: <https://www.dur.ac.uk/wolfson.institute/sig/stroke/>

Project Developments to Date:

- One project that has become part of the Stroke SIG is Durham Reading and Exploration (DREX), which is a training app that has been developed for people with partial blindness after brain injury such as stroke. In 2018 the app underwent some improvements and was relaunched on Google Play in October 2018. At present the app has 1K+ registered users.

Data has been collected on a study exploring the impact of competition on visual search. This is a proof of principle study using neurotypical participants, but that will have implications on how the DREX training can be improved in the future.

- A pilot study exploring the ways in which virtual reality may be used for people with visual impairments after stroke is underway. It is hoped that this will inform future developments regarding rehabilitation practices for such individuals.
- In July 2018 a research planning event was hosted and attended by stroke survivors and healthcare professionals to investigate issues surrounding stroke and social support in the region. The SIG subsequently was awarded funding from the Wolfson Research Institute to support a pilot study investigating loneliness in stroke, and this work is due to begin in January 2019 with a series of interviews.

Related 2018 Publications:

- Yang, K. (2018). Causal conditions for loneliness: a set-theoretic analysis on an adult sample in the UK *Quality & Quantity* 52(2): 685–701.
- Yang, K. (2018). Longitudinal Loneliness and Its Risk Factors among Older People in England. *Canadian Journal on Aging* 37(1).

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)

Director: Professor Holger Maehle

From the academic year 2017/18 the CHMD has introduced a fortnightly Reading Group in History of Medicine and Science, which is currently bringing together staff and postgraduates from the departments of English Studies and Philosophy. Having read Rob Boddice's monograph 'The Science of Sympathy: Morality, Evolution and Victorian Civilization', the Group had a Skype seminar with the author (from Montreal) on 15 June 2018. The reading in the current year 2018/19 is Jonathan Lear's book 'Freud', an introduction to Sigmund Freud's psychoanalytical theories. The annual CHMD Research Workshop was held on 22 June 2018 in Grey College, Durham. Presentations were given by Prof. Andy Byford (Modern Languages and Cultures) on 'Soviet Child Science, 1917-1927'; Prof. Matthew Eddy (Philosophy) on 'Cognition, Inscription and Early Developmental Psychology'; Dr Cheryl Lancaster (Law and Philosophy) on 'Early Nineteenth-Century Studies in Evolution and Embryology'; Prof. Holger Maehle (Philosophy) on 'Doctor-Patient Dialogue, Consent and Truth in Late Nineteenth-Century England'; Ursula Mulcahy (PhD candidate, Philosophy) on 'Eighteenth-Century Scottish Surgeons', and Tom Rossetter (PhD candidate, Philosophy) on 'Thomas Burnet's Theory of the Earth'. Another postgraduate student, Julia Tinland, successfully defended in 2018 her PhD thesis on the ethics of preventive psychiatry.

Dr Lancaster was awarded a Postdoctoral Fellowship at the Institute for Advanced Studies in the Humanities at the University of Edinburgh, from September 2018 to June 2019, on the topic 'Edinburgh's Animals' Scientific Heritage: How Embryology and Genetics Inform Agricultural and Livestock Research'.

A joint research seminar with Philosophy was held on 25 October 2018 with Dr Heather Wolfram (University of Canterbury, New Zealand) speaking on 'Juvenile Testimony and Forensic Psychology in Weimar Sex Crime Trials'. In December 2018 a new research collaboration of the CHMD with the Research Unit 'Cultural History since 1750' of the University of Leuven, Belgium, was started as part of an international network on 'Medicine and Catholicism since the late 19th Century', funded by the Flemish Research Foundation.

Selected Publications:

Byford, A., 'Lechebnaia pedagogika: The Concept and Practice of Therapy in Russian Defectology, c. 1880-1936', *Medical History* 62/1 (2018), pp. 67-90.

Maehle, A.H., 'Beyond Professional Self-interest: Medical Ethics and the Disciplinary Function of the General Medical Council of the United Kingdom, 1858-1914', *Social History of Medicine*, 2018, doi:10.1093/shm/hky072

The Durham Infancy and Sleep Centre

Professor Helen L Ball

Queen's Anniversary Prize

The year began with a Royal appointment when the Parent Infant Sleep Lab team, together with The Chancellor, Sir Thomas Allen, and the Vice Chancellor Professor Stuart Corbridge were invited by the Royal Anniversary Trust to receive the [Queen's Anniversary Prize](#) at Buckingham Palace. Sleep lab team staff members attended a reception and dinner at the Guildhall in London along with invited dignitaries, while a group of Sleep Lab postgraduate students and lab manager Dr Charlotte Russell were invited to the Buckingham Palace to witness Lab Director Prof Helen Ball and VC Prof Stuart Corbridge receive the award during an investiture ceremony hosted by Prince Charles and the Duchess of Cornwall. The Parent-Infant Sleep Lab are proud to be the first Durham University recipients of the Queen's Anniversary Prize in 25 years; a display case near to Palatine Reception currently houses the medal and certificate received.

New home & New name

In September 2018 the Parent-Infant Sleep Lab was relocated from Queen's Campus to Hilton Cottage in Durham City, and renamed as the [Durham Infancy & Sleep Centre](#). An official opening was held in October 2018. The Centre houses a new Sleep Laboratory and monitoring room, kitted out with video-somnography and cardio-respiratory monitoring equipment funded by the Research Equipment Fund. This was immediately put in to use for PhD and undergraduate research projects with both Durham students and local mothers and babies spending the night undergoing sleep studies in the lab. The new Infancy & Sleep Centre also provides us with office space for PDRA and PGR students to administer projects, and a small meeting room for team meetings and workshops.

Rebranded online resource

With funding from the Durham University Research Impact Fund, we refreshed and rebranded our outreach and engagement website as Basis, the Baby Sleep Info

Source. This work commenced March 2018 and the new website was launched in November at www.BasisOnline.org.uk.

Biennial Conference

In April 2018 the Sleep Lab hosted their regular biennial conference, this year titled: [Coping with Infant Sleep](#). 135 health professionals and researchers from UK and overseas assembled in the Calman Learning Centre to hear member of the team (Dr Charlotte Russell, Dr Cecilia Tomori, and Prof Helen Ball) speak about their latest research together with invited speakers Dr Victoria Thomas (Great North Children's Hospital), Dr Alanna Rudzik (SUNY Oneonta US, ex-Sleep Lab & WRIWK Post-doc and IJR Fellow), and Dr Pam Douglas, (GP, Possums for Mothers & Babies, Brisbane, Australia). Discussion at the conference about the needs of health professionals and parents to have good quality resources on normal infant sleep development and tools for supporting parents in coping with infant sleep patterns led to the founding of a collaborative practitioners group who have spent the year working with Sleep Lab staff and Co-Is Dr Thomas and Dr Douglas on an ESRC IAA-funded project 'Sleep Baby & You' (below).

Engagement & Impact

As mentioned above the team are currently developing and field-testing a health intervention called '[Sleep, Baby & You](#)' that aims to help parents understand and support their baby's normal sleep development while learning how to navigate the sleep disruption of early infancy using principles of mindfulness and ACT. This project aims to reduce a growing trend in medicalisation of babies for 'sleep problems' that reflects unrealistic expectations regarding infant sleep development (see article '[The Infant Sleep Myth](#)' in ESRC's magazine Society Now, Feb 2018). Having field-tested the programme with Health Visiting teams in Newcastle and Northumberland NHS Trusts in 2018, we have now been invited to train 160 Health Visiting staff in Derbyshire to use Sleep, Baby and You so they can improve the service they provide to parents with babies. This provides a great opportunity to evaluate how helpful practitioners and parents find this programme. Funding from WRIWH facilitated Practitioner and Public input to our projects.

Policy & practice

In 2018 DISC/Sleep Lab Director Prof Helen Ball has been invited to serve on review panels for NICE (National Institute of Health & Care Excellence), Institute for Child Health & Great Ormond Street Hospital and the Scottish Government and has also been elected to the Board of the International Society for the Study and Prevention of Infant Deaths (Nov 2018).

2018 Publications

Ball HL, Douglas PS, et al. (2018) The Possums Infant Sleep Program: parents' perspectives on a novel parent-infant sleep intervention in Australia. *Sleep Health*. 4(6) 519-526 <https://doi.org/10.1016/j.sleh.2018.08.007>

Ball HL "The Infant Sleep Myth." *ESRC Society Now*: Winter Edition February 2018.

Bartick M, Tomori C, **Ball HL** (2018) "Babies in Boxes and the missing links on safe sleep: Human evolution and cultural revolution." *Maternal & Child Nutrition* 14(2) e12544 <https://doi.org/10.1111/mcn.12544>

Rudzik AEF, Robinson L, **Ball HL** (2018) "Discrepancies in maternal reports of infant sleep vs. actigraphy by mode of feeding." *Sleep Medicine* 49: 90-98 <https://doi.org/10.1016/j.sleep.2018.06.010>

Tomori, Cecilia, Palmquist, Aunchalee E.L. & Quinn, EA (2018). Breastfeeding: New Anthropological Approaches. Routledge DOI: [10.4324/9781315145129](https://doi.org/10.4324/9781315145129)

Tomori, Cecilia (2018). Breastsleeping in four cultures: Comparative analysis of a biocultural body technique. In Breastfeeding: New Anthropological Approaches. Tomori, Cecilia, Palmquist, Aunchalee E.L. & Quinn, EA Routledge. 55-68. DOI: [10.4324/9781315145129](https://doi.org/10.4324/9781315145129)

Tomori, Cecilia (2018). Changing Cultures of Night-time Breastfeeding and Sleep in the US. In Social experiences of breastfeeding: building bridges between research, policy and practice. Dowling, Sally, Boyer, Kate & Pontin, David Bristol: Policy Press. 115-130.

Tully, Kristin P. & **Ball, Helen L.** (2018). Understanding and enabling breastfeeding in the context of maternal-infant needs. In Breastfeeding: New Anthropological Approaches. Tomori, C., Palmquist, A.E.L. & Quinn, E.A. Abingdon, Oxon: Routledge. 199-211. DOI: [10.4324/9781315145129](https://doi.org/10.4324/9781315145129)

Watson, Stuart, **Ball, Helen**, Lewis, Andrew & Galbally, Megan (2018). Breastfeeding, Antidepressants and Depression in the Mercy Pregnancy and Emotional Wellbeing Study. *Journal of Human Lactation* 35(1): 127-136. <https://doi.org/10.1177%2F0890334418758658>

Centre for Death and Life Studies

Director Prof. Douglas J. Davies

This period went well, notably in terms of Archive acquisition and some funding for Durham University as this brief Report will describe.

Archive Resources

After a period of discussion and negotiation, and an approach from the UK Federation of Burial and Cremation Authorities (FBCA) involving Prof Davies visiting their headquarters in Wales, it was agreed that their archives would be transferred to Durham University Library. This has now taken place and involved a memorandum of agreement of acceptance. This material complements our already extensive Archive of the Cremation Society. The Federation has also made an accompanying gift of £5,000 to the University, through the Centre. It may be that an essay scholarship may also be provided by the FBCA for this or next year for an undergraduate essay related to the Archives. It is worth noting that one finalist's dissertation focused on the Cremation Society Archive in this year's summer examination was awarded a very high First Class mark.

Undergraduate Bursary

The Cremation Society of Great Britain hosted a Durham undergraduate at its summer conference at which Prof Davies gave an invited plenary lecture. This was a different student from the one mentioned above.

Grants

Following the application made to **The Wellcome Trust** on the topic of Pet-Death Owner-Wellbeing Project that was successful at the first level of application, the second-level application was submitted but, unfortunately was not successful. This had, of course involved a vast amount of work as Durham led a consortium of colleagues from the Universities of Edinburgh (vet School), Manchester Metropolitan, Chester, and Bristol Universities. Durham seedcorn funding had been gained for this process of application. Prf. Sarah Atkinson had been especially committed to this project and thanks go to her for that.

Education

Once valuable outcome of that liaison has been that, at the request of Edinburgh University's Royal Dick Veterinary College, Prof Davies was invited to allowed his 45 minute, voice-over Power-point on Human Grief, to be used again for use in training veterinary surgeon students on their 2018 Anthrozoology Module. This has taken place.

Centre members

This year a wider range of colleagues at Durham and beyond have become Associates of the Centre, making its networked resource even more valuable. One member, now DR Giorgio Scalici, who has helped organise meetings, and a Northern Bridge Doctoral candidate, has left us for a post-doctoral research fellowship at

Lisburn University to work on death and music, a delightfully appropriate follow-on from his work at Durham between the departments of Theology and Religion, and Music.

Events and Publication.

Prof. Davies FBA, following conversations with some Dutch architects was invited to provide an essay for *their Goodbye Architecture: The Architecture of Crematoria in Europe* (eds. Vincent Valentijn and Kimm Verhoeven, 2018), a splendid volume of architectural depiction and narrative of selected European crematoria. He also had a chapter, 'The death-turn: interdisciplinary mourning and material culture', in Zara Newby and Ruth Toulson's edited collection *The Materiality of Mourning: cross-disciplinary perspectives*. Routledge, 2018.

Davies also gave an invited plenary of the annual conference of the National Association of Funeral Directors, of Northern Conference of Intensive care Specialists, led a day with MA Architecture students at Royal College of Arts combined with UCL, and at Eastbourne Hospice, as well as at two schools. Prof Davies engaged in a public interview with author Catherine Mannix on her recent book on palliative care and attracted a large audience at Durham Town hall.

Prof. Charlotte Roberts FBA, for example has held an Honorary Professorship at Jilin University, Changchun, China, and co-organised and taught a 2 week summer school on palaeopathology for 18 students, from 10 countries. She also spoke in Beijing, Changchun, and Bradford, as well as at some local public-facing events. She published, amongst many other things, 'Life-long learning using archaeology in care homes'. *British Archaeology* July/August, 2019. Crespo F, White J, Roberts CA Revisiting the tuberculosis and leprosy cross-immunity hypothesis: expanding the dialogue between immunology and paleopathology. *Int J Paleopathology* 26:37-47

Prof Geoffrey Scarre: 'How memorials speak to us', in Jeanette Bicknell, Jennifer Judkins and Carolyn Korsmeyer (eds): *Philosophical Perspectives On Ruins, Monuments, and Memorials* (New York and London: Routledge, 2019), pp.21-33.

Prof. Mark Sandy, "["Ghostly Language": Spectral Presences and Subjectivity in Wordsworth's Salisbury Plain Poems](#)". In *Romanticism and Philosophy: Thinking with Literature*. Laniel-Musitelli, Sophie & Constantinesco, Thomas (London: Routledge, 2015): 60-73.

Centre for Medical Humanities (Now Institute of Medical Humanities)

In autumn 2018 the Centre for Medical Humanities became the Institute for Medical Humanities - a UK first! With support from the [Wellcome Trust](#), IMH launched on the 2nd October with an explicit focus on what we do best - improving health by understanding the depth and breadth of human experience. There [new website can be found here](#).

Centre for Ethics and Law in the Life Sciences

Durham CELLS is a University Research Centre with membership spanning Durham Law School and other Departments of Durham University (including, Theology, Philosophy, Biology, Politics, Anthropology, Medicine and Health) and external organizations.

It has a particularly close association with the Ethics Institute of Utrecht University due to formal co-operative arrangements between Durham and Utrecht Universities, and is also active in the Matariki partnership to which Durham University belongs.

From January 2018 until September 2018 Durham CELLS was directed by Prof. Deryck Beyleveld and Dr Aisling McMahon (Law), with the assistance of a PGR Marianna Iliadou. From October 2018, Prof Shaun D Pattinson (Law) took over from Dr McMahon and PGR Caterina Milo took over from Marianna Iliadou.

Durham CELLS has 30 full members (based in and beyond the Law School) and 12 associate members (PGR students). Durham CELLS receives £1,200 annually from the Law School. Currently this is being used to finance CELLS' Research Seminars and the Annual PGR Conference. This year the Conference was held jointly with the Law School's Centre for Human Rights on 10-11 May 2018.

Intellectual Property modules (3rd Year LLB and LLM) and a Law and Medical Ethics module (3rd year LLB) are offered to Law UGs, and over 30 Law UGs 2018-2019 have chosen to do their 3rd year dissertation paper in Durham CELLS areas.

Durham Law School has designated Durham CELLS activities as a Tier One priority area, to be supported by several new appointments over the next few years. Two appointments, one Assistant Professor and one Associate Professor are currently planned to begin in September 2019.

The following papers were delivered at Durham CELLS' formal seminars this year

- Professor TT Arvind (Newcastle Law School) and Dr Aisling McMahon (Durham Law School), 'Montgomery and the Limits of Autonomy' (29 January 2018)
- Professor Rebecca Bennet (Professor in Bioethics, Manchester University), 'An Obligation to Produce the Best Child Possible? The Ethics of Restricting Access to Fertility Treatment and Attempts to Screen Out Disability' (30 April, 2018).
- Professor Sir Tom Shakespeare (Professor of Disability Research, University of East Anglia), 'A Middle Way in Prenatal Testing? Using Aristotle to Respond to NIPT.' (8 October 2018).
- Helena Guimarães de Oliveira. (University of Brazil), 'Right to Abortion: A Comparative Study between Brazil and Western Europe'. (26 November 2018).

- Dr Bill Ritchie (ex-Roslin Institute), 'Dolly: My Part in Her Creation'. (3 December 2018).
- Dr Mark Flear (Queen's University Belfast), 'Expectations, Visions and Imaginaries in the Regulation and Legitimation of Health Research and Technologies'. (10 December 2018)

PhD Completions

Dr Josh Jowitt and Dr Daniel Lowe successfully completed their PhDs. Dr Cheryl Lancaster has also obtained her second PhD.

Awards/Appointments

- Prof. Emma Cave was awarded an (ESRC IAA) funded Scottish Parliamentary Fellowship to write a briefing on the Montgomery case (July-December 2018).
- Prof Shaun Pattinson has been appointed to the editorial board of The Biologist, the official magazine of the Royal Society of Biology.
- Prof Deryck Beyleveld has been appointed as a Fellow to the Institutions Group in Utrecht University.

Publications

The following is a list of CELLS relevant publications during the last year by members based in Durham.

- **Pattinson, Shaun D.** (2018). [Revisiting Landmark Cases in Medical Law](#). Abingdon: Routledge.Rathbone,
- **Begon, Jessica** (2018). Disability, Rationality, and Justice: Disambiguating Adaptive Preferences. In [The Oxford Handbook of Philosophy and Disability](#). Wasserman, David T. & Cureton, Adam Oxford: Oxford University Press.
- Rathbone, A.P., **Jamie, K.**, Blackburn, J., Gray, W., Baqir, W., Henderson, E. & Campbell, D. (2018). [Exploring an extended role for pharmacy assistants on inpatient wards in UK hospitals: using mixed methods to develop the role of medicines assistants](#). *European Journal of Hospital Pharmacy*
- Pels, Peter, Boog, Igor, Henrike Florusbosch, J., Kripe, Zane, Minter, Tessa, Postma, Metje, Sleeboom-Faulkner, Margaret, **Simpson, Bob**, Dilger, Hansjörg, Schönhuth, Michael, von Poser, Anita, Castillo, Rosa Cordillera A., Lederman, Rena & Richards-Rissetto, Heather (2018). [Data management in anthropology: the next phase in ethics governance?](#). *Social Anthropology* **26**(3): 391-413.

- **Saunders, Hannah** (2018). [The invisible law of visible difference: disfigurement in the workplace](#). *Industrial Law Journal*
- **Maehle, Andreas-Holger** (2018). [Beyond Professional Self-Interest: Medical Ethics and the Disciplinary Function of the General Medical Council of the United Kingdom, 1858-1914](#). *Social History of Medicine*

Prof Deryck Beyleveld (Durham), Prof. Roger Brownsword, and Prof. Marcus Düwell (Utrecht) have secured a contract for an edited book (c.250,000 words) on *The Ethics and Regulation of New Health Technologies*, from Edward Elgar.

Centre for Social Justice and Community Action

New deputy directors: **Dr Andrew Orton** and **Dr Sui-Ting Kong** took on the role of deputy directors, supporting the continuing co-directors, Prof Sarah Banks and Dr Andrew Russell. The steering committee continues to be chaired by external member, Sue Shaw.

Conferences and meetings: Centre directors and others attended many events where they presented and discussed the work of the centre, including **Andrew Orton** presenting at the International Sociological Association on 'Forming Social Movements in Nonviolent Christian Social Action on Poverty: Engaging with power and justice through relationships across diversity and scale', and **Sarah Banks** facilitating work on ethics in participatory research at the International Institute for Qualitative Methodology and International Collaboration on Participatory Health Research meetings at the University of Alberta, Canada.

Participatory Action Research Postgraduate Forum: **Andrew Russell**, along with **Wang Yi** and **Wendy Gill**, Sociology postgraduate researchers attached to CSJCA, have reinvigorated the termly Postgraduate Forum, supported by the Centre for Academic and Researcher Development.

Visitors: Guests to the Centre in 2018 included **Pradeep Narayanan**, Director of Research and Capacity Building at Praxis Institute for Participatory Practices, New Delhi, India (<http://www.praxisindia.org/>). He gave a seminar titled 'Ethics is Politics, jointly hosted by the CSJCA and the Centre for Medical Humanities and subsequently wrote a blog on this theme. We also welcomed **Prof Jude Robinson** and **Dr Rachel Packham** from the University of Liverpool to discuss the use of participatory methods and social justice issues in healthcare ethics.

Training events, seminars and workshops in Durham

- 23rd January, 2018, *"In conversation with Pradeep Narayanan..."*
- 1st May, 2018, *Developing Policy and Practice through Participatory Research*, facilitated by Andrew Orton
- 2nd- 3rd July, 2018, *Participatory action research: theories, methods and challenges*, two-day course for doctoral students and community organisations in collaboration with the UK Participatory Research Network and the support of the Northern Ireland and NE Doctoral Training Programme. Facilitated by Sarah Banks (Durham University), Mary Brydon-Miller (University of Louisville, USA), Tina Cook (Liverpool Hope University), Yvonne Hall (community researcher), Kristin Kalsem (University of Cincinnati, USA)
- 24th and 26th October, 2018, *Seminar and workshop on Photovoice*, Jen Thompson.
- 16th November, 2018, *Extending Voice and Autonomy through Participatory Action Research: Ethical and Practical Issues*, one-day conference, St Mary's College, Durham
- 4th December, 2018, *Escaping Crisis. A Sociological study of the female migrant domestic worker and her family living conditions and responses in an affluent area of the Southeast coast of Attika, 2015-2019*, A seminar by Professor Iordanis Psimmenos, Research Team /Centre of Social Morphology and of Social Policy, Dept of Social Policy, Panteion University, Institute of Labour - General Federation of Greek Workers (INE-GSEE).

Selection of current research projects

- ***Youth engagement and skills acquisition within Africa's transport sector; promoting a gender agenda towards transition into meaningful work*** (Dec 2018 – Mar 2021), Gina Porter (PI) and Emma Murphy (CoI) successfully received funding (£858,936) for a new ESRC GCRF project which has a major participatory component, including work with community peer researchers and action research with the NGO Transaid in Tunis, Abuja and Cape Town.
- ***An arts-based approach for co-producing knowledge with women about their resistance against coercive control***, Sui-Ting Kong received a small grant from Durham University's Seedcorn Research Funds for a pilot project.
- ***Top-down meets bottom up: negotiating the ethics in participatory action research (PAR) for health and well-being***, a £10,251 grant by the Wolfson Research Institute for Health and Wellbeing was awarded to Sarah Banks, Sui-Ting Kong, Andrew Orton and Andrew Russell for a pilot project.
- ***Network for the development of participatory methods to investigate current and alternative livelihoods with bidi workers in South India***, Andrew Russell as

Col (with Dr Sushil John, Christian Medical College Vellore, India as PI) co-ordinated a successful bid for an Academy of Medical Sciences Global Challenges Research Fund Networking Grant (£24,945).

- **Exploring the interplays of the foreign organization and the local agenda in community development, a case study of a Chinese organization's practice in Mathare, an informal settlement in Nairobi, Kenya**, Wang Yi, a Sociology PhD student, is undertaking fieldwork involving participatory research in Nairobi.
- **Do traditional youth work organisations hold the key to sustainability for 21st century youth provision? Lessons from The Guide Association**, Wendy Gill, Sociology PhD, will be undertaking participatory research with young women involved in Girlguiding in NE England.
- **Impact funding**: Gina Porter received funding for two impact projects, 1) ESRC GCRF impact acceleration fund (£21,526): Piloting guidelines for responsible phone use with pupils and teachers in Malawian schools, Dec 2018-Mar 2019; 2) Durham University Research Impact Fund (£13,800), piloting guidelines for responsible phone use with pupils and teachers in Ghanaian schools, Jan- Dec 2018.

Selection of publications

- Banks, S. and Brydon-Miller, M. (eds) (2019) *Ethics in participatory research for health and social well-being: Cases and commentaries*, Abingdon, Routledge, published July 2018.
- Banks, S., Hart, A., Pahl, K. and Ward, P. (eds) (2019) *Co-producing research: a community development approach*, Bristol: Policy Press, published December 2018.
- Ho, P.S.Y., Kong, S-T. & Huang, Y-T. (2018) [Democratising qualitative research methods: Reflections on Hong Kong, Taiwan and China](#). *Qualitative Social Work* 17(3): 469-481.
- Porter, G., Hampshire, K., Abane, A., Munthali, A., Robson, E., Tanle, A., Owusu, S., de Lannoy, A., Bango, A. (2018) Connecting with home, keeping in touch: Physical and virtual mobility across stretched families in sub-Saharan Africa, *Africa*, 88(2), 404-24.
- Porter, G., Hampshire, K. de Lannoy, A., Gunguluza, N., Mashiri, M., Bango, A. (2018) Exploring the intersection between physical and virtual mobilities in urban South Africa: reflections from two youth-centred studies. In T.P. Uteng and K. Lucas (eds), *Urban mobilities in the Global South*, London: Routledge, pp. 59-75.
- Russell, A. (2018) "Imagine a World Without Tobacco". Utopian visions and collaborative research in public health', in Ruy Blanes and Maité Maskens

(eds) *Utopian Encounters: Anthropologies of Empirical Utopias*, (Ralahine Utopian Studies Series, Volume 20), Oxford: Peter Lang, pp. 57-90.

- Russell, A. (2018) Can the Plant Speak? Giving tobacco the voice it deserves. *Journal of Material Culture*, special issue (A. Russell and T. Widger, eds), 23(4): 472-487.

Anthropology of Health Research Group

Introduction

The Anthropology of Health Research Group (AHRG) aims 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. It works locally, regionally, nationally and internationally. It offers an interdisciplinary forum for the anthropological study of health and illness, where local and international health issues are discussed, and a range of impact and outreach activities delivered. The group fosters the development of research students, oversees the very successful MSc in Medical Anthropology, builds affiliations with health professionals, and promotes the translation of anthropological research into health policy. It hosts seminars and workshops, promotes research collaborations, and runs both laboratory and community-based research projects. Many staff and students (as Wolfson Fellows and Postgraduate Associates respectively) have benefitted from small grants offered as seed awards for larger research grants. You can read more about the work of the AHRG on its website - www.dur.ac.uk/anthropology/research/health/. Meanwhile, some of the many achievements of members of the AHRG in 2018-19 are highlighted below.

A selection of activities in 2018-19...

The Durham Infancy & Sleep Centre (DISC), led by **Prof Helen Ball**, provides its own report of activities elsewhere in the Wolfson Annual Report, as does the new Behavioural and Ecological Physiology Laboratory established by **Prof Gillian Bentley**.

Dr Nasima Akhter successfully completed an ESRC Impact Acceleration Account funded project 'Scoping exercise for building partnership and exploring NGO data availability and access in accelerating developmental impact in Bangladesh & Ethiopia' (February-March 2019). This reviewed potential datasets, and engaged UK academics and representatives from Bangladesh and Ethiopia in an interactive discussion to prioritise agendas related to health, nutrition and wellbeing to promote SDG goals 2,3,5,10. This helped securing a Durham Doctoral Studentship funded PhD studentship 'The Effects of Nutritional vs Social Inequalities on Prevalence of

Stunting in Bangladesh' for the 2019-2021 session, jointly supervised by **Dr Akhter** and **Prof Gillian Bentley**. **Dr Akhter** and **Dr Tessa Pollard** also hosted IAS Fellow Dr Jeannette Beasley (Oct-Dec 2018), New York University, conducting a systematic review 'Effectiveness of diet and physical activity interventions among Chinese-origin populations living in high income countries'.

Dr Hannah Brown has co-designed a resource for researchers and responders on Lassa Fever which highlights useful social science insights and research. It was launched earlier in 2019 with the Nigeria Centre for Disease Control – see <https://lassafever.info/>. She was also successful in securing a Wellcome Trust PhD Scholarship in Medical Humanities (as lead supervisor) 'A comparative investigation of visual representations of tropical diseases in early twentieth century Malawi and Sudan', worth £130,381, and was co-I on an ELHRA Research in Humanitarian Crisis grant 'Humanizing the response to Ebola in DRC' (£222,371 with £6881 to Durham).

Dr Adetayo Kasim and **Prof Kate Hampshire** got a grant of £95K from Save the Children to do some work on effectiveness of community health-worker programmes in LMICs. It will follow on from their current MRC-funded project on mobile phone use by community health workers.

Dr Tessa Pollard co-organised a very well-attended symposium at the International Society for Physical Activity and Health conference in London in October 2018 on 'Physical Activity and Social Inequality: Using Ethnography to Make Disadvantaged Voices Heard and Inform Interventions', at which she presented her Physical Activity laboratory's research on walking groups that had been funded by a Wolfson Small Grant.

Prof Andrew Russell was co-I on a successful Academy of Medical Sciences GCRF Networking Grant proposal with P-I Prof Sushil John (Christian Medical College, Vellore) 'Network for the development of participatory methods to investigate current and alternative livelihoods with bidi workers in South India' (£24,945). He also used a Wolfson small grant of £2615 to undertake research with former tobacco growers in Australia and Aotearoa/New Zealand, findings from which were presented as a paper 'Toxic legacies? Memories of chemical spraying among former tobacco growers in Australia and Aotearoa/New Zealand' in a convened panel 'Adding to the Air' at the ASA Conference in Norwich on September 4th 2019.

Prof Bob Simpson and **Dr Mihirini Sirisena**, received seed corn funding [£3749] for pilot work in relation to a project entitled: Understanding Medical Migration: An anthropological case study of Sri Lankan doctors working in the UKNHS. The project was specifically aimed at developing a grant proposal for a project that would

explore the integration of international medical graduates into the NHS UK and an exploration of the role of hidden cultural curricula in their integration and subsequent practice.

Dr Jed Stevenson organised workshops in Addis Ababa, Ethiopia, to engage with stakeholders of a large hydroelectric dam that threatens the livelihoods and food security of downstream communities. He is co-I on a £670K project beginning in 2020 that will examine the conflict and peace implications of renewable energy projects in the Omo-Turkana basin (spanning Ethiopia and Kenya); this work is funded by the Swedish government's scientific research council.

A selection of our publications 2018-19...

- **Akhter N**, Bambra C, Mattheys K, Warren J, Kasim A. (2018) Inequalities in mental health and well-being in a time of austerity: follow up findings from the Stockton-on-Tees cohort study. *SSM - Population Health*, 6: 875-84.
- **Akhter N**, N Saville, B Shrestha, DS Manandhar, D Osrin, A Costello, A Seal (2018) Change in cost and affordability of a typical and nutritionally adequate diet among socio-economic groups in rural Nepal after the 2008 food price crisis. *Food Security*, 10(3): 615–629.
- Bonwitt, Jesse, Dawson, Michael, Kaneh, Martin, Ansumana, Rashid, Sah, Foday, **Brown, Hannah** & Kelly, Ann H. (2018). Unintended Consequences of the 'Bushmeat Ban' in West Africa During the 2013-2016 Ebola Virus Disease Epidemic. *Social Science and Medicine*, 200: 166-173.
- **Brown, Hannah** (2019) Complexity, Anthropology, and Epidemics, in Keck, Kelly and Lynteris, eds. *The Anthropology of Epidemics*, Abingdon: Routledge.
- **Brown, Hannah** and Alex Nading, eds. (2019) Humans Animals and Health Special Issue, *Medical Anthropology Quarterly* 33(1).
- Hodbod, J., **Stevenson, E.G.J.**, Akall, G., Akuja, T., Angelei, I. ... + 12 other authors. (2019). Socio-ecological change in the Turkana Basin: A synthesis of current developments. *Ambio* 48(10): 1099-1115.
- Moffatt, Suzanne, Wildman, John, **Pollard, Tessa M**, Penn, Linda, O'Brien, Nicola, Pearce, Mark S & Wildman, Josephine M (2019). Evaluating the impact of a community-based social prescribing intervention on people with type 2 diabetes in North East England: mixed-methods study protocol. *BMJ Open* 9(1): bmjopen-2018-026826.
- **Morris, Stephanie**, Guell, Cornelia & **Pollard, Tessa M**. (2019). Group walking as a "lifeline" Understanding the place of outdoor walking groups in women's lives. *Social Science & Medicine* 238: 112489.

- **Russell, A.** (2019) *Anthropology of Tobacco: Ethnographic Adventures in Non-Human Worlds*. London: Routledge. Available as an open access publication - <http://oopen.org/search?identifier=1004131>.
- Sariola, S. and **Simpson B.** 2019 *Research as development: clinical trials, collaboration and bioethics in Sri Lanka*. Cornell: Cornell University Press.
- **Stevenson, E.G.J.** and Buffavand, L. (2018) 'Do our bodies know their ways?' Villagization, food insecurity, and ill-being in Ethiopia's lower Omo Valley. *African Studies Review*, 61(1): 109-33. doi:10.1017/asr.2017.100
- **Tomori C,** Srikrishnan, AK Mehta SH, Nimmagadda N, Anand S, Vasudevan, CK, Celentano, DD. & Solomon, SS (2018). HIV risks among women who are married to men who have sex with men in India: a qualitative investigation. *Culture, Health & Sexuality*, 20(8): 873-887. DOI: 10.1080/13691058.2017.139016.
- **Tomori C,** McFall AM, Solomon SS, Srikrishnan, AK, Anand S, Balakrishnan P, Mehta SH, Celentano DD (2018) Is there synergy in syndemics? Psychosocial conditions and sexual risk among men who have sex with men in India. *Social Science & Medicine*. 206:110-116. DOI: 10.1016/j.socscimed.2018.03.032.
- Weaver, L.J., Tadesse, Y., **Stevenson, E.G.J.**, and Hadley, C. (2019) "I want variety!": Dietary variety as aesthetic pursuit, social signal, and nutritional vehicle in Brazil and Ethiopia. *Human Organization* 78(2): 122-132
- **Wagnild, Janelle M.,** Hinshaw, Kim & **Pollard, Tessa M.** (2019). Associations of sedentary time and self-reported television time during pregnancy with incident gestational diabetes and plasma glucose levels in women at risk of gestational diabetes in the UK. *BMC Public Health* 19(1): 575.

Cognitive Neuroscience Research Unit

The CNRU continues to be a node both within the Psychology department and across the University for the examination of the neuroscientific basis of behaviour. There are three clear routes by which CNRU contributes:

- 1) Understanding the neurological mechanisms of behaviour
- 2) Understanding how behaviour changes following neurological damage
- 3) Designing interventions that have an evidence base in 1) to mitigate the effects of 2).

Our technical expertise is such that we can apply a number of cutting edge methodologies to our enquiries including transcranial magnetic stimulation, transcranial electrical stimulation, functional magnetic resonance imaging, electroencephalography, eye tracking and physiological recording. In addition to attracting significant grant income, and continuing to publish in high impact journals,

we have been focused this year on developing our industrial links and attracting commercial income.

CNRU now houses a diverse number of interests, ranging from trustworthiness judgements through brain body computer interfacing and clinical interventions following stroke and supranuclear palsy. This rich bed of investigations is both a reputational source via the many conference presentations we give and a rich resource for our undergraduates, PGTs, and PGRs. The CNRU currently supervises 8 PhD students and has four PDRAs.

HC Knight, DT Smith, DC Knight, A Ellison (2018) [Light social drinkers are more distracted by irrelevant information from an induced attentional bias than heavy social drinkers](#). *Psychopharmacology* 235 (10), 2967-2978

Cavina-Pratesi C, Connolly JD, Monaco S, Figley TD, Milner AD, Schenk T, Culham JC. (2018) [Human neuroimaging reveals the subcomponents of grasping, reaching and pointing actions](#). *Cortex*; 98:128-148. doi: 10.1016/j.cortex.2017.05.018. Epub 2017 Jun 6.

Siqi-Liu A, Harris AM, Atkinson AP, Reed CL. (2018) [Dissociable processing of emotional and neutral body movements revealed by \$\mu\$ -alpha and beta rhythms](#). *Soc Cogn Affect Neurosci.*;13(12):1269-1279. doi: 10.1093/scan/nsy094.

Durham Centre for Imaging (DCI)

In 2017 – 2018, Durham Centre for Imaging (formerly Durham University NeuroImaging Collective: DUNIC) reorganised its management such that it could maximise its position as a premier resource for the academy of Durham University. The Centre is equipped with a 3Tesla functional magnetic resonance scanner which is housed at James Cook University Hospital in Middlesbrough. Not only does this scanner provide high resolution images of the brain, it also has the potential to scan other parts of the human body as well as constructed phantoms and archaeological artefacts. In addition, the Centre has the capacity to provide high quality auditory input as well as collecting physiological data. Real time scanning analysis is also possible allowing for neurofeedback protocols.

As a result of this potential, the management committee has strengthened its links with the WRIHW and are developing collaborations across the University (most notably with the Department of Sport and Exercise Sciences). We are also developing our links with industry and have put a commercialisation policy and mechanism in place.

Our members continue to attract UKRI funding and publish and present their work widely.

- Kedia G, Mussweiler T, Adam R, Ischebeck A, Ihssen N, Linden DEJ. (2019) [So pretty! The neural correlates of self-other vs familiar-other attractiveness comparisons.](#) Soc Neurosci. 2019 Feb;14(1):41-52. doi: 10.1080/17470919.2017.1397544. Epub 2017 Nov 10.
- Yu, X.L., Thaler, L., Baker, C.J., Smith, G.E. & Zhao, L.S. (2018). [Human echolocation: 2D shape discrimination using features extracted from acoustic echoes.](#) *Electronics Letters* 54(12): 785-787.
- Cavina-Pratesi, C., Connolly, J.D., Monaco, S., Figley, T.D., Milner, A.D., Schenk, T. & Culham, J.C. (2018). [Human neuroimaging reveals the subcomponents of grasping, reaching and pointing actions.](#) *Cortex* 98: 128-148.

Centre for Global Infectious Diseases



2018 saw the evolution of the Filling the Void Special Interest Group into an established University research centre, The Centre for Global Infectious Disease (CGID). With the continued support of the Wolfson Research Institute CGID has carried forward its mission to drive a research and training agenda aimed at providing solutions for pressing issues in global infectious diseases, including antimicrobial resistance. Furthermore, we have further broadened our reach outside the confines of Durham University and now count the Newcastle Fungal Group amongst our number. This addition adds depth and capacity, as well as providing us with a truly regional base – for example our next CGID meeting will be held in Newcastle in June 2019. This follows on from the Centre kick-off meeting hosted at Durham in June 2018.

The Centre is built upon sustained large-scale funding from across multiple agencies, UK and overseas, most notably the £7.8M MRC GCRF Network for Neglected Tropical Diseases. This capacity building award engages partners in South America and south Asia to identify and validate much needed new drug targets for leishmaniasis and Chagas disease, the fight against both having been recently described as ‘a losing battle’. The network, and members of the International Advisory Group, is shown in the photograph below at the kick-off meeting, Marriott Royal County Hotel Durham on January 2018.



It is this level of research funding, coupled with the continued support of the Wolfson Research Institute, that have allowed CGID to

maintain focus on the development of our Early Career Researchers (ERCs), a function vital for the sustainability of the Centre. As such, external ECRs (UK and overseas) have been supported as visiting researchers and speakers, in addition Durham ECRs have received funding for research secondments (e.g. to Glasgow). Academic staff have also benefited from funding opportunities, with CGID part supporting networking visits to Brazilian, Indian and UK institutes for a variety of permanent staff.

As in previous years, all activity is underwritten by a high quality seminar programme that operates alongside Institutional activity. As part of the CGID kick-off meeting Helen Price (Keele) discussed her work on magnetic hyperthermic treatment of cutaneous leishmaniasis; Fionnuala Lundy (Queens Belfast) illuminated the possibilities of targeting troublesome biofilms with peptidomimetics; and Michael Ginger (Huddersfield) told us about unusual elements of the cytoskeleton and metabolism that have evolved in the protozoa. Both Fionnuala and Michael are now serving as external advisors to CGID, with a brief to ensure that the Centre maintains focus and quality. In total, the kick-off meeting brought together 40 researchers working on bacterial, fungal and protozoal pathogens. Importantly, this included the Newcastle University fungal pathogen group (lead by Jan Quinn), with 9 members attending.

To ensure the ever-expanding activities of CGID are visible to a wide audience, the dedicated Wolfson supported social media presence @FillingV, continues to be the primary outlet for news and views aimed at both researchers and the general public. In addition, as part of the Durham-led MRC GCRF award we have now appointed a network administrator (Sabine Schindler) and project officer (Dr Mags Leighton). This administrative team is supporting outreach and engagement activities, and consideration of funding opportunities around this area, for CGID as a whole.

Of course, research is a dynamic process, and as such several new initiatives from arisen from CGID in 2018. For example, Gary Sharples is leading an Institute for Advanced Studies sponsored project on the potential of Antibacterial Clay Therapy; and Paul Denny is heading the Brazil-Durham Network part-funded by the Brazilian agency FAPESP (Development of platforms to study transmembrane proteins – towards medical, agricultural and biotechnological benefits). A larger award has been secured by Nigel Robinson for a Phase II BBSRC Network in Industrial Biotechnology and Bioenergy **Metals in Biology (Elements of Bioremediation, Biomanufacturing & Bioenergy)**, to establish academic-industrial projects to maximise impact. Other major funding successes are pending.

Looking forward to the next 12 months, CGID will continue to support researchers in their efforts to bring forward much needed new solutions for global infectious diseases.

Selected Publications 2018

- **Karrera DY**, Achard MES, Phan M-D, Lo A W, Miraul, M, Prombhul S, Hancock SJ, Peters KM, Sidjabat H, Harris P N, Mitić N, Walsh TR, Anderson GJ, Shafer WM,

Paterson DL, Schenk G, McEwan AG, Schembri MA (2018) Copper ions and coordination complexes as novel carbapenem adjuvants. *Antimicrobial Agents and Chemotherapy* 62:e02280-17.

- Mulla RS, Beecroft MS, Yufit DS, Pal R, Aguilar JA, Pitarch-Jarque J, García-España E, Lurie-Luke E, **Sharples GJ**, Williams, JAG (2018) On the antibacterial activity of azacarboxylate ligands: lowered metal ion affinities for some bis-amide derivatives of EDTA do not necessarily mean reduced activity. *Chemistry, a European Journal* 24:7137-48
- Norcliffe JL, Mina JG, Alvarez E, Cantizani J, de Dios-Anton F, Colmenarejo G, Valle SG, Marco M, Fiandor JM, Martin JJ, **Steel PG, Denny PW**. (2018) Identifying inhibitors of the *Leishmania* inositol phosphorylceramide synthase with antiprotozoal activity using a yeast-based assay and ultra-high throughput screening platform. *Scientific Reports* 8:3938
- Mosaei H, Molodtsov V, Kepplinger B, Harbottle J, Moon CW, Jeeves RE, Ceccaroni L, Shin Y, Morton-Laing S, Marrs ECL, Wills C, Clegg W, Yuzenkova Y, **Perry JD**, Bacon J, Errington, J, Allenby NEE, Hall MJ, Murakami KS, Zenkin N. (2018) Mode of action of kanglemycin A, an ansamycin natural product that is active against rifampicin-resistant *Mycobacterium tuberculosis*. *Molecular Cell*, 72, 263-274.e5
- Day AM, McNiff MM, da Silva Dantas A, Gow NAR, **Quinn J**. (2018) Hog1 Regulates Stress Tolerance and Virulence in the Emerging Fungal Pathogen *Candida auris*. *mSphere*, 00506-18

The Hormone Lab

The hormone lab (previously Durham Endocrinology and Ecology Lab) was moved from the Wolfson Building, Queens Campus, to the Dept of Anthropology and is almost completed. It will be directed by Profs Gillian Bentley and Ann MacLarnon working with human and non-human primate projects in a range of body tissues. Following the successful appointment of a lab technician, the Lab is looking forward to activities resuming in Michaelmas 2019. We welcome contact with any other Durham researchers who might need to analyse hormone levels and would like to collaborate with us.

Centre for Research into Violence and Abuse (CRiVA)

2018 was another eventful year for CRiVA. Several new members of staff have joined the Centre, such as Professor Catherine Donovan and Dr Evgenia Korkodeilou in the

Department of Sociology, and our new Deputy Director Dr Hannah Bows in the Law School. Dr Kelly Johnson and Dr. Fiona-Vera Gray have also started new posts as Assistant Professors in the Department of Sociology. In addition, we have started teaching a new second year undergraduate criminology and sociology module entitled 'Sociological Approaches to Violence and Abuse', which has attracted a lot of interest from students.

CRiVA has hosted several visitors during 2018. Dr Asher Flynn from Monash University in Australia spent a month with us during the spring, and gave a talk about her research on *'Image-Based Sexual Abuse: The Australian Experience'* on 30th April. Dr Jan Jordan from Victoria University of Wellington, New Zealand also visited us in July, and we hosted an event on 9th July with her 'in conversation' with Professor Liz Kelly from London Metropolitan University and Dr Fiona Vera-Gray (Department of Sociology), which explored feminist self-defence and whether it can be considered a form of victim-blaming or rape prevention. In addition, doctoral researcher Tully O'Neill from RMIT University in Australia visited CRiVA during the summer, and gave a presentation about her PhD research on 19th July, *"I need community": Examining the experiences of victim-survivors using reddit in the aftermath of sexual violence'*. We held several other events during the year too, including a public lecture on 17th January with John Drew, Chair of Medway Safeguarding Children Board and a past Chief Executive of the Youth Justice Board, *'Child protection and safeguarding: Time to change course'*; a workshop with Silke Grygier from the Survivors' Collective on 7th June, *'Not the only one: How can we support survivors of childhood sexual abuse?'*; and a public lecture with Dr Ava Kanyeredzi (University of East London) on 15th October, *'Race, culture, gender and space in experiences of violence and abuse'*.

CRiVA's biggest event of the year was our 12th annual North East Conference on Sexual Violence, funded by Northern Rock Foundation and supported in kind by the Wolfson Research Institute, which was held at the Thought Foundation in Birtley on 26th November. This year, the conference focused on the topic of *'Image-Based Sexual Abuse - Next steps for law, policy and practice'*, and included a range of different speakers with expertise in this area: Prof Clare McGlynn (Law School), Dr Kelly Johnson (Department of Sociology), Lauren Evans (Writer and Advocate), Louise Johnson (National Legal Issues Worker at Scottish Women's Aid), Dr Adrian Scott (Goldsmiths, University of London), Dr Fiona Vera-Gray (Law School), Folami Prehaye (Voices of Internet Crime: Speak Out!) and Will Naylor (Deputy Police and Crime Commissioner for North Yorkshire). We also continue to cultivate a strong sense of community among scholars researching violence and abuse at Durham through activities such as away days and weekly coffee mornings. We were able to organise two highly productive away days in 2018, in which we focused on writing academic publications and planning the future development and activities of CRiVA.



CRiVA members at our writing away day in October 2018

We have been undertaking a diverse range of research projects examining different aspects of violence and abuse over the last year.

These have been looking at topics including: an ethnographic study of police responses to domestic abuse; evaluations of Durham County Council's Domestic Abuse Awareness Project and Durham Constabulary's Checkpoint service for people who have committed offences relating to domestic abuse; image-based sexual abuse in the UK, Australia and New Zealand; mapping the learning from domestic homicides in Newcastle; profiling older sex offenders; responding to domestic violence and abuse in the workplace; an evaluation of a sex and relationships education programme developed by Darlington and Co. Durham Rape and Sexual Abuse Counselling Centre; sexual violence at UK music festivals; an evaluation of a support programme for women at HMP Low Newton who have experienced sexual violence; why it is that some men take a public stance against men's violence against women; and women's experiences of pornography. We have also received funding from Durham University's ESRC Impact Acceleration Account to help expand upon the social impact from several CRiVA research projects.



Presenting work on the impact of CRiVA's Project Mirabal at an ESRC Impact Acceleration Account showcase in Durham Castle

Some examples of CRiVA's publications from 2018 are listed below, with many more available on our website, www.dur.ac.uk/criva:

- **Bows, H. and Westmarland, N.** (2018) Older sex offenders – managing risk in the community from a policing perspective. *Policing and Society*, 28(1): 62-74.
- **Darling, A., Hackett, S. and Jamie, K.** (2018) Female sex offenders who abuse children whilst working in organisational settings: offending, conviction and sentencing. *Journal of Sexual Aggression*, 24(2): 195-213.

- **Kong, S.T.** and Hooper, C.A. (2018) Building a community of practice for transforming 'mothering' of abused women into a 'mutual care project'. *British Journal of Social Work*, 48(3): 633-655.
- **Vera-Gray, F.** (2018) *The Right Amount of Panic: How Women Trade Freedom for Safety in Public*. Bristol: Policy Press.
- **Westmarland, N.** and **Bows, H.** (2018) *Researching Gender, Violence and Abuse: Theory, Methods, Action*. Abingdon: Routledge.
- **Westmarland, N., McGlynn, C.** and **Humphreys, C.** (2018) Using restorative justice approaches to police domestic violence and abuse. *Journal of Gender-Based Violence*, 2(1): 339-358.

Early Career Researchers

As the Wolfson Research Institute for Health and Wellbeing (WRIHW) moves into its 17th 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 2018

Mrs Mildred Oiza Ajebon

Conference Paper

- Mildred O. Ajebon (2018), 'Who has the final say? women power and landscapes of risk for under-five mortality in Nigeria', RGS-IBG 2018. Cardiff.

Dr Nasima Akhter

Journal Article

- Akhter, Nasima, Saville, Naomi, Shrestha, Bhim, Manandhar, Dharma S., Osrin, David, Costello, Anthony & Seal, Andrew (2018). [Change in cost and affordability of a typical and nutritionally adequate diet among socio-economic groups in rural Nepal after the 2008 food price crisis](#). *Food Security* 10(3): 615-629.
- Todd, Adam, Akhter, Nasima, Cairns, Joanne-Marie, Kasim, Adetayo, Walton, Nick, Ellison, Amanda, Chazot, Paul, Eldabe, Sam & Bamba, Clare (2018). [The Pain Divide: a cross-sectional analysis of chronic pain prevalence, pain intensity and opioid utilisation in England](#). *BMJ Open* 8(7): e023391.
- Akhter, N., Bamba, C., Mattheys, K., Warren, J. & Kasim, A. (2018). [Inequalities in mental health and well-being in a time of austerity: Follow-up findings from the Stockton-on-Tees cohort study](#). *SSM - Population Health* 6: 75-84.
- Todd, Adam, Al-Khafaji, Jaafar, Akhter, Nasima, Kasim, Adetayo, Quibell, Rachel, Merriman, Kelly & Holmes, Holly (2018). [Missed opportunities: unnecessary medicine use in patients with lung cancer at the end of life: an international cohort study](#). *British Journal of Clinical Pharmacology* 84(12): 2802-2810.

Dr Ben Alderson-Day

Journal Article

- Alderson-Day, B., Mitrenga, K., Wilkinson, S., McCarthy-Jones, S. & Fernyhough, C. (2018). [The varieties of inner speech questionnaire – Revised \(VISQ-R\): Replicating and refining links between inner speech and psychopathology](#). *Consciousness & Cognition* 65: 48-58.
- Moseley, Peter, Alderson-Day, Ben, Kumar, Sukhbinder & Fernyhough, Charles (2018). [Musical hallucinations, musical imagery, and earworms: A new phenomenological survey](#). *Consciousness and Cognition* 65: 83-94.
- Alderson-Day, Ben & Jones, Nev (2018). [Understanding AVATAR therapy: who, or what, is changing?](#). *The Lancet Psychiatry* 5(1): 2.

Dr Carrie A. Ambler

Journal Article

- Li, Zhi, Gothard, Elizabeth, Coles, Mark C & Ambler, Carrie A (2018). [Quantitative methods for measuring repair rates and innate-](#)

[immune cell responses in wounded mouse skin](#). *Frontiers in Immunology* 9: 347.

- Gala de Pablo, Julia, Chisholm, David R., Steffen, Andreas, Nelson, Amanda K., Mahler, Christoph, Marder, Todd B., Peyman, Sally A., Girkin, John M., Ambler, Carrie A., Whiting, Andrew & Evans, Stephen D. (2018). [Tandem fluorescence and Raman \(fluoRaman\) characterisation of a novel photosensitiser in colorectal cancer cell line SW480](#). *The Analyst* 143(24): 6113-6120.

Prof Elizabeth Archibald

Chapter in book

- Archibald, Elizabeth (2018). [Malory and the Post-Vulgate Cycle](#). In [Romance Rewritten: The Evolution of Middle English Romance](#). Archibald, Elizabeth, Leitch, Megan & Saunders, Corinne Boydell & Brewer. 115-132.

Edited book

- Archibald, Elizabeth, Leitch, Megan & Saunders, Corinne (2018). [Romance Rewritten: The Evolution of Middle English Romance - A Tribute to Helen Cooper](#). Studies in Medieval Romance. Boydell & Brewer.

Journal Article

- Archibald, Elizabeth (2018). [Some Uses of Direct Speech in the Stanzaic 'Morte Arthur' and Malory](#). *Arthuriana* 28(3): 66-85.

Dr Anthony Atkinson

Journal Article

- Siqi-Liu, Audrey, Harris, Alison M., Atkinson, Anthony P. & Reed, Catherine L. (2018). [Dissociable Processing of Emotional and Neutral Body Movements Revealed by \$\mu\$ -Alpha and Beta Rhythms](#). *Social Cognitive and Affective Neuroscience* 12(4): 1269-1279.

Professor Sarah Atkinson

Journal Article

- Curtis, S.E., Congdon, P., Atkinson, S., Corcoran, R., Peasgood, T. & Maguire, R. (Submitted). The significance of small area indicators of community deprivation as predictors of self-reported wellbeing analysis of the Understanding Society Survey. *Social Indicators Research*

Professor Sarah Banks

Chapter in book

- Banks, S. (2018). [Cultivating researcher integrity: virtue-based approaches to research ethics](#). In [Virtue ethics in the conduct and governance of social science research](#). Emmerich, N. Bingley: Emerald. 3: 21-44.
- Banks, S. (2018). [Practising professional ethical wisdom: the role of 'ethics work' in the social welfare field](#). In [Cultivating character and virtue in professional practice](#). Carr, D. Abingdon, Oxon: Routledge. 55-69.

Prof Jens Beckmann

Journal Article

- Elliott, J.G., Resing, W.C.M. & Beckmann, J.F. (2018). [Dynamic assessment: a case of unfulfilled potential?](#). *Educational Review* 70(1): 7-17.
- Zhang, J., Beckmann, N. & Beckmann, J.F. (2018). [To talk or not to talk: A review of situational antecedents of willingness to communicate in the second language classroom](#). *System. An International Journal of Educational Technology and Applied Linguistics* 72: 226-239.
- Birney, D.P., Beckmann, J.F., Beckmann, N., Double, K.S. & Whittingham, K. (2018). [Moderators of learning and performance trajectories in microworld simulations: Too soon to give up on intellect!?](#). *Intelligence* 68: 128-140.
- Beckmann, J.F. (2018). [Deferential trespassing: Looking through and at an intersectional lens](#). *New Directions for Child and Adolescent Development* 2018(161): 119-123.

Dr Nadin Beckmann

Conference Paper

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Prof Gillian Bentley

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Professor Vikki Boliver

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Professor Lynda Boothroyd

Journal Article

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Professor Toby Breckon

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Professor David Budgen

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Dr Stephen Burrell

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Dr Camila Caiado

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Professor Martin Cann

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Dr Soazig Casteau

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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 P Chazot

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Dr Steven Cobb

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Dr Jason Connolly

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Professor Christopher C. H. Cook

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Frank Coolen

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Dr Judith Covey

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Dr Helen Cramman

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Professor Richard Crisp

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Professor Douglas James Davies

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Dr Paul Denny

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Dr Alexander Easton

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Professor Amanda Ellison

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Prof Olga Epitropaki

Authored book

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Professor Kiran Fernandes

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Professor Charles Fernyhough

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Dr Ahmet Fuat

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Dr Andrew Gallant

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Dr Lian Gan

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Prof John Girkin

Journal Article

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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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Professor Simon Hackett

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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 Christopher Hurst

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Dr Kimberly Jamie

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Professor Karen Johnson

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Dr Adetayo Kasim

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Professor Bob Kentridge

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Dr Matthew O. Kitching

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Miss Hue San Kuay

Journal Article

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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 Gordon Love

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Professor Holger Maehle

Journal Article

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Professor John Mawson

Report

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Dr Laura Mazzoli Smith

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Dr Anthony McGregor

Journal Article

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Victoria Menzies

Report

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Prof Christine Merrell

Journal Article

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Ms Sarah Metcalfe

Journal Article

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Dr Helen Moore

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Mr Misheck Julian Nkhata

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Dr Kate O'Brien

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Dr Boguslaw Obara

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Dr Emily J. Oliver

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Professor Joe Painter

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Professor Nadja Reissland

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Mr Benjamin Rigby

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- (2018), The Hammerings of Heavens: Totality, The Spirituality of the Whole and Religiosity of the Sublime in German Idealism and Jena Romanticism (1780-1840), 63rd National PG Colloquium in German Studies (London, 12-13 April 2018). University of London, Senate House, England.
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- (2018), Citadels: The Frankfurt School and its relevance to Undemocratic Regimes, Annual Scottish Graduate Classics Conference (held under the auspices of StAGE) Power and the People in Undemocratic Regimes University of Glasgow, 3-4 May 2018. University of Glasgow, Scotland.
- (2018), Parsimonies: Feminine Difference and its Non-Identity towards Resistance and Emancipation in Cixous, Butler, Kristeva and Irigaray, 6th Annual Conference and General Meeting of SWIP-Ireland. 17-19 May, 2018 University College Dublin, Ireland.
- (2018), Macintyre's Marxism and Critical Theory: An inter-disciplinary lesson for future praxis, 2018 Annual Conference Learning from MacIntyre Durham University, UK Call for Papers. Durham, England.
- (2018), The Judgement of Reason: The Aesthetics of Art as the Play and Essence of the Human Being in Immanuel Kant as the relation between Freedom and Nature (1724-1804), ECPR, European Consortium for Political Research, General Conference, 2018. Hamburg, Germany.
- (2018), The Empire of the Earth; An Intellectual History of the Concept of Empire, From Akkad to Neoliberalism, The 2018 Telos Europe Conference: The Endurance of Empire. Ragusa, Sicily.
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- (2018), *Minor Idealisms: The minoritarian case of H. H. Joachim (1868-1938) and Spinoza's Ethics, a home for the Analytic revolution*, Spinoza & British Idealism 8 & 9 June 2018. University of St Andrews, Scotland.
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- (2018), *Critique or Violence: Arendt's critique of totalitarianism and Benjamin's violence of the constellation, a Messianism*, Fifteenth Annual Historical Materialism conference which is being held 8th to 11th November 2018 at SOAS, University of London. SOAS, University of London, England.

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Professor Charlotte Roberts

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Dr Andrew J. Russell
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Dr David Sanderson

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Dr Beng Huat See

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Dr Gary Sharples

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Professor Bob Simpson

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Prof Roger Smith

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Dr Daniel T. Smith

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Prof. Jonathan W. Steed

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Prof. Patrick G. Steel

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Dr Jamie Tehrani

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Dr Lore Thaler

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Prof Carole Torgerson

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Dr Jonathan Tummons

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Prof Peter Tymms

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Dr Milica Vasiljevic

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Dr Ourania Maria Ventista

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Professor Nicole Westmarland

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Dr Tom Widger

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Dr Jonathan Wistow

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