

Name	Email	Subject	Title
<u>Clare Wilkinson</u>	<u>Clare.Wilkinson@uwe.ac.uk</u>	Science Communication	<ol style="list-style-type: none"> 1) Gender equality and STEM: Exploring student engagement with gender perspectives and their studies. 2) Fertility Communication: A science communication study on representations of fertility in the UK print media.
<u>Emma Weitkamp</u>	<u>Emma.Weitkamp@uwe.ac.uk</u>	Science and communication	<ol style="list-style-type: none"> 1) Environmental science cartoons: analysis of content (or) reader impact 2) Performed science: exploring the audience for science theatre
<u>Annabelle Hodson</u>	<u>Annabelle.Hodson@uwe.ac.uk</u>	Medicinal Chemistry	1) The development of dual-action anti-cancer drugs - Synthesis and Cell Testing.
<u>Jonathon Hull</u>	<u>Jonathon2.Hull@uwe.ac.uk</u>		
<u>Kevin Honeychurch</u>	<u>Kevin.Honeychurch@uwe.ac.uk</u>	Biosensing Technology	<ol style="list-style-type: none"> 1) Drugs in water by LC/MS/MS. 2) 3D printed electrochemical flow cells. 3) Laser scribed graphene electrodes 4) smartphone as sensors
<u>Adrian Crew</u>	<u>Adrian.Crew@uwe.ac.uk</u>	Biosensing Technology	<ol style="list-style-type: none"> 1. Development of electrochemical sensor systems for monitoring (bio)chemical markers of soil health. 2. Evaluation of the environmental legacy from historical mining in the South Gloucestershire, Bristol and/or the Forest of Dean. 3. Development of electrochemical sensors for human blood group diagnostics. 4. Investigation into the application of electrochemical sensors in food fermentations.
<u>Tony Killard</u>	<u>Tony.Killard@uwe.ac.uk</u>	Biomedical Sciences, Biosensing Technology	<ol style="list-style-type: none"> 1) Paper-based lateral flow blood coagulation devices 2) Development of electrogenic methods for novel electrochemical coagulation monitoring devices 3) Application of resonant transducers to study haemostasis 4) Investigation of the behaviour of conducting polymer films for trace breath ammonia detection 5) Measurement of trace breath gases for diagnostic applications
<u>Aniko Varadi</u>	<u>Aniko.Varadi@uwe.ac.uk</u>	Biomedical Sciences, Biosensing Technology	<ol style="list-style-type: none"> 1) Early detection of the development of diabetic foot by using a digital nose device, NeOse. 2) Investigation the clinical utility of periodontal disease for predicting glycaemic control and insulin responsiveness in diabetics.
<u>Saliha Saad</u>	<u>Saliha.Saad@uwe.ac.uk</u>		
<u>Ben de Lacy Costello</u>	<u>Ben.DeLacyCostello@uwe.ac.uk</u>	Forensics and Biomedical Sciences	1) The smell of disease - Developing sensors for the early detection of cancer (Biomedical Science)

			<p>2) The human volatilome in health and disease – establishing the identity and concentration profiles of a range of small metabolites from humans (Biomedical Science)</p> <p>3) The smell of disease – early detection of antibiotic resistant bacteria using their volatile profile (Biomedical Science)</p> <p>4) Personalised medicine - assessing sensor based apps designed to diagnose gastrointestinal disorders (Biomedical Science)</p> <p>5) Establishing a compendium of volatile metabolites linked to disease states in humans (Biomedical Science)</p> <p>6) Measuring methane in cattle to aid reduction in global carbon emissions (Multidisciplinary)</p> <p>7) Sensors for the detection of explosives on the transport networks (Forensic science)</p> <p>8) Ballistics – volatile analysis to determine time since firing (Forensic science)</p> <p>9) Patterns in nature – studying simple chemical based systems that generate complex patterns (multidisciplinary)</p>
<u>Emmanuel Adukwu</u>	Emmanuel.Adukwu@uwe.ac.uk	Biomedical Sciences, Public Health	<p>1) Antimicrobial, antiseptic and/or disinfectant capability of natural products against clinical and environmental pathogens</p> <p>2) Survival mechanisms of bacteria and fungi- spores and biofilms</p> <p>3) Race equality and STEM: Understanding perspectives and challenges associated with attainment and success.</p> <p>4) Investigating antibiotic compliance, mechanisms and drivers of resistance in the UK and abroad</p> <p>5) Global Health - Use of social science tools to investigate characteristics of and drivers of communicable and non-communicable diseases</p>
<u>Elizabeth Anderson</u>	Elizabeth3.Anderson@uwe.ac.uk	Biomedical Sciences	Optimisation of a high-resolution melt (HRM) assay for therapeutic drug monitoring of hypomethylating agents in myelodysplastic syndrome (MDS).
<u>Joel Allainguillaume</u>	Joel.allainguillaume@uwe.ac.uk		
<u>Jennifer May</u>	Jennifer2.May@uwe.ac.uk	Biomedical Sciences	<p>1) Investigation of genotoxicity in the bone marrow.</p> <p>2) Interaction between leukaemic and bone marrow stromal cells.</p>
<u>Mo Salehan</u>	Mo.Salehan@uwe.ac.uk		
<u>Sarah Dean</u>	Sarah4.Dean@uwe.ac.uk	Biomedical Sciences	<p>1) Breast cancer co-cultures with breast cancer cell lines and other cells found in the breast such as adipose and fibroblasts.</p> <p>2) Role of Fatty acid binding proteins (FABPs) in leukaemia.</p>
<u>Tim Craig</u>	Tim.Craig@uwe.ac.uk	Biomedical Sciences	<p>1) Investigating the link between Type-2 Diabetes and Alzheimer's Disease</p> <p>2) Neurodegeneration and diet - what is the link?</p> <p>3) Alzheimer's Disease, stem cells and neurogenesis - a search for the early stages of neurodegeneration"</p>

Jonathon Hull	Jonathon2.Hull@uwe.ac.uk	Biomedical Sciences	<ol style="list-style-type: none"> 1) Amino acid metabolism in leukaemia and effect on outcome. 2) Targeting protein build up in Alzheimer's disease.
Jason Mansell	Jason.Mansell@uwe.ac.uk	Biomedical Sciences	<ol style="list-style-type: none"> 1) Polydopamine-functionalised titanium as a novel surface finish for dental and orthopaedic applications. 2) Exploring the potential of converging vitamin D and cytoskeletal signalling networks in tackling bone cancer. 2) Mussel-inspired reactive platforms for enhancing the performance of bone graft substitutes and implantable ceramics.
Lynne Lawrance	Lynne.Lawrance@uwe.ac.uk	Biomedical Sciences	<ol style="list-style-type: none"> 1) Exploring issues of sustainability in the laboratory setting (In collaboration with Georgina Gough) 2) Exploring uncertainty of measurement in clinical microbiology – would most suit biomedical science students but would consider others with microbiology background
Bahareh Vahabi	Bahareh.Vahabi@uwe.ac.uk	Biomedical Sciences	Investigating the role of mucosa in mediating the spontaneous contractions of the urinary bladder
Lucy Crompton	Lucy.Crompton@uwe.ac.uk	Biomedical Sciences	<ol style="list-style-type: none"> 1) Using a hiPSC-derived neural model to investigate astrocyte mediate neuroinflammation in Parkinson's disease. 2) Using a hiPSC-derived neural model to investigate astrocyte mediate neuroinflammation in Alzheimer's disease. 3) Using a hiPSC-derived neural model to investigate use of 'over-the counter' NSAIDs to prevent Parkinson's disease.
Adam Thomas	Adam7.Thomas@uwe.ac.uk	Biomedical Sciences	1) Are microplastics genotoxic?
David Qualtrough	David.Qualtrough@uwe.ac.uk	Biomedical Sciences	<ol style="list-style-type: none"> 1) Investigating the role of the microbiome in colorectal cancer. 2) The potential role of oestrogen signalling in colorectal cancer metastasis. 3) The role of Hedgehog signalling in breast cancer metastasis
Mike Ladomery	Michael.Ladomery@uwe.ac.uk	Biomedical, Biological Sciences	<ol style="list-style-type: none"> 1) Targeting the cancer-associated splice factor MBNL3 with splice switching oligonucleotides in pancreatic cancer cells 2) Role of the cancer-associated RBM3 / CrGRP1 RNA-binding proteins in environmental stress adaptation 3) Targeting CLK splice factor kinases in pancreatic cancer cells. 4) Evaluating the anticancer properties of the novel candidate drug GeGe3
Ruth Morse	Ruth.Morse@uwe.ac.uk	Biomedical Sciences	Isolation and differentiation of mesenchymal stem cells from birth related tissues, to develop 3D tissue models
Mark Steer	Mark.Steer@uwe.ac.uk		

<u>Ruth Morse</u>	<u>Ruth.Morse@uwe.ac.uk</u>	Biomedical Sciences	<ol style="list-style-type: none"> 1. Development of a 3D liver model for toxicity and genotoxicity testing. 2. Assessment of thalidomide as a microtubule inhibitor in the generation of therapy related malignancy and peripheral neuropathy 3. Establishment of green fluorescent protein labelled haematopoietic cells for use in toxicity and genotoxicity testing. 4. Investigating the resolution of DNA cross-links through novel DNA repair pathways. 5. Investigating cellular altruism in human tissue models. 6. The use of mitogens and natural plant products as targeted therapeutics in cancer. 7. A measure of genomic instability in leukaemogenesis.
<u>Alexander Greenhough</u>	<u>Alexander.Greenhough@uwe.ac.uk</u>	Biomedical Sciences	<p>You will join a research active laboratory funded by the Wellcome Trust, Bowel Cancer UK and industrial (pharmaceutical/biotech) and academic partners. Your MRes will dovetail with these externally funded projects giving you the opportunity to work in an interdisciplinary team.</p> <p>Current projects include:</p> <ol style="list-style-type: none"> 1) Understanding hypoxia-induced signalling mechanisms during microenvironment-driven cancer cell adaptation. 2) Targeting GPCR signalling in colorectal and pancreatic cancer. 3) How does Aspirin prevent cancer? Understanding Aspirin's mechanism of action in the clinical response of cancer patients to therapy.
<u>Kathryn Yuill</u>	<u>Kathryn.Yuill@uwe.ac.uk</u>	Biomedical Sciences	<ol style="list-style-type: none"> 1) Investigating calcium signalling in myocytes 2) Pharmacological regulation of ion channel function
<u>Michael Loizou</u>	<u>Michael2.Loizou@uwe.ac.uk</u>	Healthcare Sciences	<ol style="list-style-type: none"> 1) eXtended Reality scenarios for the virtual placement of student nurses 2) Intelligent chat bots for supporting carers online 3) The use of technology for supporting people that live with chronic pain 4) Virtual reality exposure therapy for the mental health treatment of migrants and refugees 5) Digital Visual Arts Intervention for People with Dementia 6) Digital Skills training for bridging the digital skills gap in the healthcare sector
<u>Adrian Kendrick</u>	<u>Adrian.Kendrick@uwe.ac.uk</u>	Healthcare Sciences	Hospital based projects on Sleep & Lung Function.
<u>Shona Nelson</u>	<u>Shona.Nelson@uwe.ac.uk</u>	Microbiology	Investigating strategies to control or eradicate mono- and multi-species bacterial biofilms.
<u>Alexandros Stratakos</u>	<u>alexandros.stratakos@uwe.ac.uk</u>	Biological Sciences	The MRes projects available are interdisciplinary in nature and will provide the students with the opportunity to collaborate with additional research active academic and industrial partners in the UK and abroad.

			<p>1) Development of advanced drug delivery systems against bacterial infections.</p> <p>2) Development of antibiotic-free technologies for wound decontamination.</p> <p>3) Development of 3D-printed antimicrobial surfaces for infection prevention and control.</p>
Oliver Gould	Oliver.Gould@uwe.ac.uk	Forensics	Chemical mapping and composition of environmental short range crime scene samples
Sarah Bateman	Sarah3.Bateman@uwe.ac.uk		
James Costello	James.Costello@uwe.ac.uk	Chemistry	Controlling Molecular Shape – Computational and Structural Studies of Organometallic Catalysts
Robin Thorn	Robin2.Thorn@uwe.ac.uk	Microbiology	<p>1) Investigating microbial metabolomics for better diagnostics; using selective ion flow tube – mass spectrometry to investigate microbial metabolic processes</p> <p>2) Modelling wound biofilms – development of novel treatment strategies</p>
Darren Reynolds	darren.reynolds@uwe.ac.uk	Health and Environmental Sciences	<p>Driving Impact through Research (note all projects will involve external partners/collaborators). Project examples include;</p> <p>1) Health Technologies 1 – Assessment of novel antimicrobials for control of viral loads</p> <p>2) Health Technologies 2 – Investigation of health technologies for wound treatment and antimicrobial resistance</p> <p>3) Health Technologies 3 – Water, sanitation and hygiene</p> <p>4) Healthy Waters Initiative 1 - Application of sensing technologies for river water quality monitoring</p> <p>5) Healthy Waters Initiative 2 – Harvesting and management of rainwater</p> <p>6) Healthy Waters Initiative 3 – Novel water treatment technologies</p>
Dann Turner	Dann2.Turner@uwe.ac.uk	Biological Sciences	<p>1) Isolation, genome sequencing and annotation of novel bacteriophages of Acinetobacter spp.</p> <p>2) Nucleic acid modifications - evasion of bacterial defense systems by bacteriophages</p> <p>3) Battening the hatches - the role of prophages in the biology of Acinetobacter spp.</p>
Rachael Akprie	Rachael.Akprie@uwe.ac.uk	Ecotoxicology	<p>1) Assessment of Cyp1a1 P450 Metabolic activity in BDPA exposed sponge cells of Hymeniacidon perlevis.</p> <p>2)The Role of Aryl hydrocarbon receptors and reactive oxygen species in B[a]P induced DNA damage in the sea sponge Hymeniacidon perlevis.</p>
John Hancock	John.Hancock@uwe.ac.uk	Biological Sciences	Reactive compounds and gases used in cell signalling. These projects will investigate the roles of reactive oxygen species, nitric oxide, hydrogen sulfide or hydrogen gas in a model biological system. The impact on such compounds on the molecular events in cells will be studied with a view to gaining a greater understanding of how such molecules fit into the intricate web of cell signalling events. Model organisms may range across both animal and plant kingdoms, depending on specific interests.
Carrie Brady	Carrie.Brady@uwe.ac.uk	Biological Sciences	Screening for potential pathogenic bacteria in broad-leaf species.

Joel Allainguillaume	Joel.Allainguillaume@uwe.ac.uk		
Jacqueline Barnett	Jackie.Barnett@uwe.ac.uk	Biological Sciences	Biosensor development for the detection of Cacao Swollen Shoot Virus
Joel Allainguillaume	Joel.Allainguillaume@uwe.ac.uk		
Joel Allainguillaume	Joel.Allainguillaume@uwe.ac.uk	Biological Sciences	Metagenomics studies of the microbiota of fermented cacao beans in chocolate
Andy Wetten	Andy.Wetten@uwe.ac.uk	Biological Sciences	Cacao swollen shoot virus and its mealybug vector
Pete Maxfield	Andy.Wetten@uwe.ac.uk	Environmental Sciences	Carbon flux modelling and remote sensing
Stephanie Sargeant	Stephanie.Sargeant@uwe.ac.uk	Environmental Sciences	<ol style="list-style-type: none"> 1) Microbial processing of carbon compounds (VOCs) in freshwater systems 2) Marine phytoplankton production of climate relevant gas compounds 3) Microbial turnover of carbon compounds (VOCs) in rainwater 4) Investigating the plastisphere: microbial communities on plastic debris 5) Investigation of plankton gas production in the Arctic due to climate stressors 6) Impacts of co-metal limitation on open ocean microbial populations
Neil Willey	Neil.Willey@uwe.ac.uk	Biological Sciences & Environmental Sciences	<ol style="list-style-type: none"> 1) Biological Sciences (lab/meta-analysis) – Nutrients & Contaminants In Primary Producers. Toxic metals in Food. Stoichiometry of Plants. 2) Cons & Env Science (field/lab/ modelling) – Radionuclides In the Severn Estuary Salt-Marshes. Uptake of radionuclides by plants. Predicting 'peak P' and its wastes.
Heather Macdonald	Heather.Macdonald@uwe.ac.uk	Biological Sciences	1) Evolution of signalling pathways. Project will investigate ABA, light and Auxin signalling in the unicellular green alga <i>Chlamydomonas reinhardtii</i>
Sam Bonnett	Sam.Bonnett@uwe.ac.uk	Environmental Sciences	Spatial and temporal evaluation of soil carbon flux and microbial functions in rewilding projects
David Fernandez	David.Fernandez@uwe.ac.uk	Conservation Sciences	<ol style="list-style-type: none"> 1) Development of an open-source, automatic shotgun-detector for monitoring illegal hunting in Central Africa (desk-based) 2) Effect of anthropogenic activity on the mammal community in Monte Alen National Park, Equatorial Guinea (field-based) 3) Effect of defaunation on the ecology of Monte Alen National Park, Equatorial Guinea (field-based) 4) Determining hunting pressure in Monte Alen National Park, Equatorial Guinea (desk-based)
Mark Steer	Mark.Steer@uwe.ac.uk	Conservation Sciences	<ol style="list-style-type: none"> 1) Biodiversity and environmental responses to wetland rewilding - case studies from the Honeygar initiative. 2) Developing environmental DNA survey protocols for burrowing and/or arboreal mammals: novel applications for genetic survey techniques. 3) Asprete dreams are made of this: developing eDNA surveys for Europe's rarest fish.
Grainne McCabe	gmcabe@bristolzoo.org.uk	Conservation Sciences (Bristol Zoo)	<ol style="list-style-type: none"> 1) Assessment of African Grey Parrots in Monte Alen National Park, Equatorial Guinea 2) Assessment of invertebrate fauna in Monte Alen National Park, Equatorial Guinea

Sam Cotton	SCotton@bristolzoo.org.uk	Conservation Sciences (Bristol Zoo)	Investigating natural resource use and livestock management by local communities living within Sahamalaza-Iles Radama National Park, northwest Madagascar
Daphne Kerhoas	dkerhoas@bristolzoo.org.uk	Conservation Sciences (Bristol Zoo)	<ol style="list-style-type: none"> 1) Drivers of illegal hunting in the Philippines 2) Social and ecological impacts of community livelihoods projects and their effectiveness 3) Habitat preference and population density of the Visayan warty pig
Tim Bray	TBray@bristolzoo.org.uk	Conservation Sciences (Bristol Zoo)	<p>Bristol zoological society is involved in the conservation of the Critically Endangered lemur leaf frog. The project has partnered with the Veragua Rainforest Foundation and the 2019 project season is being planned.</p> <ol style="list-style-type: none"> 1) Can we identify threats to amphibian persistence in the region? Specifically is it possible to identify the presence of chytrid fungal pathogens in the habitat and relate this to abiotic factors and amphibian presence? 2) What are the population dynamics of the lemur leaf frog and other Critically Endangered frogs of the northern edge of the Fila Matama in the Cordillera de Talamanca?
Mark Abrahams	MAbrahams@bristolzoo.org.uk	Conservation Sciences (Bristol Zoo)	<ol style="list-style-type: none"> 1) Using Geographic Information Systems to analyse climate change at Bristol Zoo conservation sites 2) Using dung beetles collected from Equatorial Guinea to analyse hunting pressure
Samuel Penny	spenny@bristolzoo.org.uk	Conservation Sciences	<ol style="list-style-type: none"> 1) Exploring drivers of the international legal and illegal wildlife trade
Paul Lintott	Paul.Lintott@uwe.ac.uk	Conservation Sciences	<ol style="list-style-type: none"> 1) Assessing the effectiveness of green infrastructure for biodiversity and human health and wellbeing 2) Enhancing landscape connectivity within the urban matrix for biodiversity 3) The effectiveness of green bridges for biodiversity 4) Assessing the impact that music festivals have on wildlife 5) Determining the impact that electric vehicles will have on biodiversity 6) Assessing the impact of offshore wind turbines on bats and birds 7) An assessment of the public's willingness to pay to support green infrastructure
Jim Vafidis	Jim.Vafidis@uwe.ac.uk	Conservation Sciences	<ol style="list-style-type: none"> 1) Identifying opportunities and developing monitoring solutions in conservation using UAVs and spatial analysis. Flood management and habitat restoration 2) Using thermal imaging to monitor nesting birds in sensitive environments 3) Developing a protocol for identifying Ash Die back and other diseases using UAVs

<p>Emma Stone</p>	<p>Emma4.Stone@uwe.ac.uk</p>	<p>Conservation Sciences</p>	<ol style="list-style-type: none"> 1) Occupancy of small carnivores and mammals on Mount Mulanje Malawi using camera trapping 2) Impact of novel starpath lighting on foraging and commuting bats along waterways (UK) 3) Foraging and roosting ecology of Mops bat in Lilongwe city Malawi using radio and GPS tags 4) Predictors of bat species diversity and abundance in montane fragmented woodlands of Mount Mulanje Malawi 5) Genetic diversity of high altitude montane bats in the mountains of Malawi 6) Behavioural and foraging ecology of Nycteris bats in Kuti wildlife reserve, Malawi through radio tracking 7) Roosting, behavioural ecology, parasites and acoustics of bats in urban areas of Malawi 8) Disturbance and predation effects on Eidolon helvum (Straw coloured fruit bat) in Lilongwe city Malawi (Nov to April only) 9) Impacts of lighting on emergence and fitness of bats using experimental studies (UK or Malawi) 10) Spatial and nesting behaviour of urban hedgehogs in Lilongwe City Malawi (using radio tracking)
<p>Bethan Hindle</p>	<p>bethan.hindle@uwe.ac.uk</p>	<p>Conservation Sciences</p>	<p>Exploring changes in invertebrate abundance and distribution under climate change. Investigating the effects of microhabitat on phenological mismatch</p>
<p>Angelina Sanderson Bellamy</p>	<p>Angelina.SandersonBellamy@uwe.ac.uk</p>	<p>Environmental Sustainability</p>	<ol style="list-style-type: none"> 1) Achieving sustainable and healthy diets: Increasing access to vegetable consumption to align culturally appropriate UK diets with the EAT-Lancet diet for healthy and sustainable outcomes. Research activity may include online food diaries, understanding household vegetable waste, online/phone interviews and literature review. 2) Food system transformation: research and policy action for transforming our food systems to achieve biodiversity and net zero emission targets. 3) Sustainable food certification: Greenwashing or real environmental change? Determining how to ensure that sustainable certification schemes deliver marketed sustainability benefits 4) Evaluating impact from green infrastructure interventions for increasing rural resilience Research activity may include key stakeholder interview, workshop, and literature review. 5) Delivery of ecosystem services in agricultural land management to ensure biodiversity, carbon sequestration and ecosystem resilience.