| Name | Email | Subject | Title |
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| Hannah Little | Hannah.Little@uwe.ac.uk | Science Communication | 1) The cultural evolution of scientific information: exploring biases in science communication |
| | | | 2) Exploring the use of comedy to communicate science: the advantages and risks of being funny |
| Clare Wilkinson | Clare.Wilkinson@uwe.ac.uk | Science Communication | 1) Gender equality and STEM: Exploring student engagement with gender perspectives and |
| | | | 2) Fertility Communication: A science communication study on representations of fertility in |
| Emma Weitkamp | Emma.Weitkamp@uwe.ac.uk | Science and communication | 1) Environmental science cartoons: analysis of content (or) reader impact |
| | | | 2) Performed science: exploring the audience for science theatre |
| Annabelle Hodson | Annabelle.Hodson@uwe.ac.uk | Toxicology | 1) Toxic metals, plastics, drugs and other contaminates in foods and drink. |
| | | Medicinal Chemistry | 2) The development of green methods of synthesising medicinal agents. |
| Kevin Honeychurch | Kevin.Honeychurch@uwe.ac.uk | Biosensing | 1) Drugs in wastewater by LC/MS/MS. |
| | | | 2) 3D printed electrochemical flow cells. |
| Adrian Crew | Adrian.Crew@uwe.ac.uk | Biosensing Technology | Investigations into the development of electrochemical sensors for the measurement of target metal ions for environmental studies on different soil systems (in collaboration with John Hart) |
| Tony Killard | Tony.Killard@uwe.ac.uk | Biomedical, Biosensing | 1) Development of non-invasive diagnostic devices for diabetes. |
| | | | 2) Paper-based diagnostic device for low-resource environments. |
| | | | 3) New approaches to studying red blood cell deformability. |
| | | | 4) Fabrication and application of integrated point of care diagnostics. |
| Aniko Varadi<br>Saliha Saad | Aniko.Varadi@uwe.ac.uk<br>Saliha.Saad@uwe.ac.uk | Biomedical, Biosensing | 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. |
| Ben de Lacy Costello | Ben.DeLacyCostello@uwe.ac.uk | Forensics and Biomedical | 1) Early detection of colon cancer using the detection of volatile disease markers by gas sensors and mass spectrometry |
| | | | 2) The detection of trace explosives and compounds useful for medical diagnosis using multi-mode gas sensors |
| Emmanuel Adukwu | Emmanuel.Adukwu@uwe.ac.uk | Biomedical Sciences, Public Health | 1) Natural products as sources of antimicrobials against clinical and environmental pathogens |
| | | | 2) Survival mechanisms of bacteria and fungi- spores and biofilms |
| | | | 3) Disinfectant capabilities of novel plant based products |
| | | | 4) Water Sanitation and Hygiene (W.A.S.H) research with focus on Africa |

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| | | | 5) Investigating antibiotic compliance, mechanisms and drivers of resistance in the UK and abroad |
| | | | 6) Global Health - Use of social science tools to investigate characteristics of and drivers of communicable and non-communicable diseases |
| **Elizabeth Anderson**<br>**Joel Allainguillaume** | Elizabeth3.Anderson@uwe.ac.uk><br>Joel.allainguillaume@uwe.ac.uk | Biomedical | Optimisation of a high-resolution melt (HRM) assay for therapeutic drug monitoring of hypomethylating agents in myelodysplastic syndrome (MDS). |
| **Elizabeth Anderson**<br>**Mo Salehan** | Jennifer2.May@uwe.ac.uk<br>Mo.Salehan@uwe.ac.uk | Biomedical | 1) Investigation of genotoxicity in the bone marrow. |
| | | | 2) Interaction between leukaemic and bone marrow stromal cells. |
| **Sarah Dean** | Sarah4.Dean@uwe.ac.uk | Biomedical | 1) Breast cancer co-cultures with breast cancer cell lines and other cells found in the breast such as adipose and fibroblasts. |
| | | | 2) Role of Fatty acid binding proteins (FABPs) in leukaemia. |
| **Tim Craig** | Tim.Craig@uwe.ac.uk | Biomedical | 1) Alzheimer's Disease and Type-2 Diabetes – investigating the link between two modern plagues. |
| | | | 2) Osteoarthritis and metabolism – how does diet cause damage to bones? |
| **Jonathon Hull** | Jonathon2.Hull@uwe.ac.uk | Biomedical | 1) Neurological metabolism of amino acids in mammals Sus domesticus, Bos taurus and Ovis aries.<br>2) The role of amino acids in the survival of leukaemic cells and cell lines. |
| **Jason Mansell** | Jason.Mansell@uwe.ac.uk | Biomedical | 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 | 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 | Investigating the role of mucosa in mediating the spontaneous contractions of the urinary bladder |
| **Adam Thomas** | Adam7.Thomas@uwe.ac.uk | Biomedical | 1) Invesitgating a novel role of p53<br>2) Are microplastics genotoxic?<br>3) How do neuronal cells die? Implications in neurodegeneration and glioblastoma. |
| **David Qualtrough** | David.Qualtrough@uwe.ac.uk | Biomedical | 1) Investigating the role of the microbiome in colorectal cancer." |
| | | | 2) The potential role of oestrogen signalling in colorectal cancer metastasis. |

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| **Mike Ladomery** | Michael.Ladomery@uwe.ac.uk | Biomedical | 1) Targeting oncogene with splice switching oligonucleotides |
| | | | 2) Targeting the CLK splice factor kinases in cancer. |
| | | | 3. Function of the conserved RNA-binding protein CrGRP1 in algal adaptation to environmental stress. |
| **Myra Conway** | Myra.Conway@uwe.ac.uk | Biomedical | 1) Targeting signalling pathways in Alzheimer's disease. |
| | | | 2) Understanding nutrient restriction and its potential therapeutic advantages to improve |
| | | | 3) Targeting novel pathways to treat triple negative breast cancer. |
| **Ruth Morse**<br><br>**Mark Steer** | Ruth.Morse@uwe.ac.uk<br><br>Mark.Steer@uwe.ac.uk | Biomedical | Isolation and differentiation of mesenchymal stem cells from birth related tissues, to develop 3D tissue models |
| **Ruth Morse** | Ruth.Morse@uwe.ac.uk | Biomedical | 1. Development of a 3D liver model for toxicity and genotoxicity testing.<br>2. Assessment of thalidomide as a microtubule inhibitor in the generation of therapy related malignancy and peripheral neuropathy<br>3. Establishment of green fluorescent protein labelled haematopoietic cells for use in toxicity and genotoxicity testing.<br>4. Investigating the resolution of DNA cross-links through novel DNA repair pathways.<br>5. Investigating cellular altruism in human tissue models. |
| **Alexander Greenhough** | Alexander.Greenhough@uwe.ac.uk | Biomedical Sciences | 1) Understanding hypoxia-induced signalling mechanisms during microenvironment-driven cancer cell adaptation.<br>2) Understanding Aspirin's mechanism of action in the clinical response of cancer patients to therapy. |
| **Rhian Thomas** | Rhian5.Thomas@uwe.ac.uk | Biomedical | Various aspects of the cell biology of Alzheimer's disease. |
| **Kathryn Yuill** | Kathryn.Yuill@uwe.ac.uk | Biomedical | 1) Investigating calcium signalling in myocytes |
| | | | 2) Pharmacological regulation of ion channel function |
| **Adrian Kendrick** | Adrian.Kendrick@uwe.ac.uk | Biomedical | Hospital based projects on Sleep & Lung Function. |
| **Shona Nelson** | Shona.Nelson@uwe.ac.uk | Microbiology | Investigating strategies to control or eradicate mono- and multi-species bacterial biofilms. |
| **Alexandros Stratakos** | alexandros.stratakos@uwe.ac.uk | Biological Sciences | 1) Development of advanced drug delivery systems against bacterial infections |
| | | | 2) Tackling antimicrobial resistance: Degradation of antibiotics using non-thermal |
| | | | 3) Discovery of novel agents to inhibit microbial virulence and pathogenicity |
| **Helen Green** | Helen4.Green@uwe.ac.uk | Forensics | 1) Detection of low level DNA during VWM processing |
| | | | 2) Enhancement of latent fingermarks on shot gun cartridges |
| **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 | 1) Investigating microbial metabolomics for better diagnostics; using selective ion flow tube – mass spectrometry to investigate microbial metabolic processes |

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| | | | 2) Modelling wound biofilms – development of novel treatment strategies |
| **Darren Reynolds** | darren.reynolds@uwe.ac.uk | Environmental Sciences | Driving Impact through Research (note all projects will involve external partners/collaborators)<br>1) Biotechnology - Microbial metabolomics (smelling technology) for healthcare diagnostics (e.g. wounds);<br>2) Applying wound biofilms models for investigating treatment strategies and antimicrobial resistance<br>3) Application of sensor technologies for water quality monitoring<br>4) Biofilms and Cave Slime – removing metals from water<br>5) Microbial processing or organic matter in freshwater systems<br>6) Rainwater Harvesting and Drinking Water<br>7) Bread to beer – reducing food waste using biotechnology |
| **Dann Turner** | Dann2.Turner@uwe.ac.uk | Biological Sciences | 1) Isolation, genome sequencing and annotation of novel bacteriophages of Acinetobacter spp.<br>2) Nucleic acid modifications - evasion of bacterial defense systems by bacteriophages<br>3) Battening the hatches - the role of prophages in the biology of Acinetobacter spp. |
| **Rachael Akpri** | Rachael.Akpiri@uwe.ac.uk | Ecotoxicology | 1.Assessment of Cyp1a1 P450 Metabolic activity in BDPA exposed sponge cells of |
| | | | 2.The Role of Aryl hydrocarbon receptors and reactive oxygen species in B[a]P induced DNA |
| **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. |
| **Dawn Arnold** | Dawn.Arnold@uwe.ac.uk | Biological | Effector gene persistence in bacterial plant pathogens. |
| **Carrie Brady**<br>**Dawn Arnold** | Carrie.Brady@uwe.ac.uk<br>Dawn.Arnold@uwe.ac.uk | Biological | Screening for potential pathogenic bacteria in broad-leaf species in Westonbirt Arboretum. |
| **Jacqueline Barnett**<br>**Joel Allainguillaume** | Jackie.Barnett@uwe.ac.uk<br>Joel.Allainguillaume@uwe.ac.uk | Biological | Biosensor development for the detection of Cacao Swollen Shoot Virus |
| **Joel Allainguillaume** | Joel.Allainguillaume@uwe.ac.uk | Biological | Metagenomics studies of the microbiota of fermented cacao beans in chocolate |
| **Andy Wetten** | Andy.Wetten@uwe.ac.uk | Biological | Cacao swollen shoot virus and its mealybug vector |
| **Pete Maxfield** | Andy.Wetten@uwe.ac.uk | Environmental Sciences | Carbon flux modelling and remote sensing |

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| **Stephanie Sargeant** | Stephanie.Sargeant@uwe.ac.uk | Environmental Sciences | 1) Investigation of plankton gas production in the Arctic due to climate stressors.<br>2) Marine plankton production of climate relevant gas compounds.<br>3) Characterising and quantifying microplastic accumulation and retention in seagrass systems.<br>4) Impacts of co-metal limitation on open ocean microbial populations. |
| **Neil Willey** | Neil.Willey@uwe.ac.uk | Biological Sciences & Environmental Sciences | 1) Biological Sciences – Nutrients & Contaminants In Primary Producers: Analysing the Elemental Stoichiometry of Plants. |
| | | | 2) Cons & Env Science – Radionuclides In the Severn Estuary Salt-Marshes: Establishing a Benchmark Before Nuclear New Build. |
| **Heather Macdonald** | Heather.Macdonald@uwe.ac.uk | Biological & Environmental Sciences | 1) Interactions between Auxin, Ethylene and Nitric Oxide signalling in plants. Project will use transgenic Arabidopsis to look at phenotypic effects and NO localisation when auxin and ethylene signalling pathways are perturbed. |
| | | | 2) Evolution of signalling pathways. Project will investigate ABA, light and Auxin signalling in the unicellular green alga Chlamydomonas reinhardtii |
| **Sam Bonnett** | Sam.Bonnett@uwe.ac.uk | Environmental Sciences | 1) Anthropogenic soil formation on Mars: assessing plant-microbial interactions within a Martian simulant regolith. |
| | | | 2) Seasonal and temporal variation in plant-soil functions within a recently installed PV farm. |
| **Mark Steer** | Mark.Steer@uwe.ac.uk | Conservation Sciences | Developing environmental DNA survey protocols for burrowing and/or arboreal mammals: novel applications for genetic survey techniques. |
| **Alison Cotton** | acotton@bristolzoo.org.uk | Conservation Sciences (Bristol | Utilising eDNA technology to assist with African penguin conservation |
| **Grainne McCabe** | gmccabe@bristolzoo.org.uk | Conservation Sciences (Bristol Zoo) | 1) Manatee population survey in Costa Rica |
| | | | 2) Large mammal survey in Monte Alén National Park, Equatorial Guinea. |
| **Amanda Webber** | awebber@bristolzoo.org.uk | Conservation Sciences (Bristol Zoo) | Understanding the behaviour of the Sambirano fork-marked lemur (Phaner parienti) in the cacao plantations of northern Madagascar |

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| **Daphne Kerhoas** | dkerhoas@bristolzoo.org.uk | Conservation Sciences (Bristol Zoo) | 1. Habitat preference and population density of the Visayan warty pig in the North West Panay National Park<br>2. Population density and habitat use of the Philippines long-tailed macaques in the North West Panay National Park<br>3. Human-wildlife interactions and assessment of sustainable livelihood projects in communities surrounding the North West Panay National Park<br>4. Avian species richness in North Negros National Park (and possibly mammals) using camera traps and transects data<br>5. Habitat suitability for the Negros bleeding-heart dove of the Danjugan Island (including resource availability and predator assessment)<br>6. Population density and nesting frequency of green sea turtles on Danjugan Island<br>7. Using camera traps to quantify warty pig "crop raiding" and mitigate conflict in the Central Panay Mountain Range, the Philippines<br>8. Analysing the social and ecological impacts of community livelihoods projects in the Northwest Panay Peninsula, the Philippines<br>9. Analysing the social and ecological impacts of community-based fisheries management in the Northwest Panay Peninsula, the Philippines<br>10. Using playback devices to survey for Negros bleeding-heart doves in the Sebaste district, Northwest Panay<br>11. Updating best-practice guidelines for the captive care and breeding of Negros bleeding-heart doves |
| **Tim Bray** | TBray@bristolzoo.org.uk | Conservation Sciences (Bristol Zoo) | 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.<br>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?<br>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? |

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| **Mark Abrahams** | MAbrahams@bristolzoo.org.uk | Conservation Sciences (Bristol Zoo) | • Validating and applying the use of invertebrate derived DNA (dung beetle gut contents) to monitor populations of rare/ hunted vertebrates in tropical forests – desk, lab or field<br>• Using camera traps to quantify warty pig "crop raiding" and mitigate conflict in the Central Panay Mountain Range, the Philippines - field<br>• Analysing the social and ecological impacts of community livelihoods or fisheries projects in the Northwest Panay Peninsula, the Philippines - field<br>• Updating best-practice guidelines for the captive care and breeding of Negros bleeding-heart doves – desk<br>• The use of interviews as a large-scale tool to diagnose the degree of hunting sustainability in areas of the Amazon with differing levels of human population density and alternative protein availability - field<br>• The cultural future of rural Amazonia. Lessons from the development trajectories of small cities – GIS/desk<br>• Conservation conflicts between Zapatista and Maya communities surrounding the Lacandon forest, Chiapas, southern Mexico - desk<br>• Review - Which traits are associated with burdensome crop-raiders? - desk<br>• The anthropogenic evolution of Amazonian rivers. From uninhabited, to cul-de-sac, to bead-chain – GIS/desk<br>• Review/CT data - Evidence for hunt-mediated "envelopes of abundance" for certain species in the Brazilian Amazon- camera trap/desk<br>• Review – The extent of positive, non-natural biodiversity change -desk |
| **David Fernandez** | David.Fernandez@uwe.ac.uk | Conservation Sciences | 1) Effect of bushmeat hunting on the mammal community of Bioko Island, Equatorial Guinea: an iDNA approach.<br>2) Acoustic monitoring of the Impact of forest degradation on the wildlife community of the Udzungwa Mountains, Tanzania |
| **Paul Lintott** | Paul.Lintott@uwe.ac.uk | Conservation Sciences | • Assessing the effectiveness of green infrastructure for biodiversity and human health and wellbeing<br>• Enhancing landscape connectivity within the urban matrix for biodiversity<br>• The effectiveness of green bridges for biodiversity<br>• Assessing the impact that music festivals have on wildlife<br>• Determining the impact that electric vehicles will have on biodiversity<br>• Assessing the impact of offshore wind turbines on bats and birds<br>• An assessment of the public's willingness to pay to support green infrastructure |
| **Farnon Ellwood** | Farnon.Ellwood@uwe.ac.uk | Conservation Environmental Sciences | 1. Insect biodiversity and ecosystem function in the tropical biome of the Eden Project.<br>2. Insect biodiversity and ecological networks in the canopy of a tropical rainforest in Borneo. |

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| **Jim Vafidis** | Jim.Vafidis@uwe.ac.uk | Conservation Sciences | Identifying opportunities and developing monitoring solutions in conservation using UAVs and spatial analysis. Flood management and habitat restoration |
| | | | Using thermal imaging to monitor nesting birds in sensitive environments |
| | | | Developing a protocol for identifying Ash Die back and other diseases using UAVs |
| **Emma Stone** | Emma4.Stone@uwe.ac.uk | Conservation Sciences | • Predictors of carnivore occupancy and diet in Kasungu National Park or Vwasa Marsh Wildlife Reserve, Malawi<br>• Foraging and roosting ecology of Mops bat in Lilongwe city Malawi<br>• Predictors of bat species diversity and abundance in montane fragmented woodlands of the Nyika plateau Malawi<br>• Genetic diversity of high altitude montane bats in the mountains of Malawi<br>• Behavioural and foraging ecology of Lissonycteris fruit bats in Malawi through radio tracking<br>• Roosting, behavioural ecology, parasites and acoustics of bats in urban areas of Malawi<br>• Disturbance and predation effects on Eidolon helvum (Straw coloured fruit bat) in Lilongwe city Malawi (Nov to April only)<br>• Spatial ecology and resource use of urban Eidolon helvum (Straw coloured fruit bat) in Lilongwe city Malawi using GSM tracking (Nov to April only)<br>• Ecology and spatial behaviour of dormice and bushbabies in urban areas of Malawi using box traps and radio tracking<br>• Understanding human bat conflict in the UK using data from the BCT national helpline<br>• Experimental studies to inform habitat management for shrill carder bees in the UK<br>• Abundance of urban hedgehogs in Bristol using spotlighting and camera trapping<br>• Urban bat ecology in Bristol UK |
| **Bethan Hindle** | bethan.hindle@uwe.ac.uk | Conservation sciences | Exploring changes in invertebrate abundance and distribution under climate change. |