Supervisor 1	Supervisor 2	College	School	Project Title
Andy Lovering	Dave Grainger	Life and Environmental Sciences	Biosciences	Structure & Function of Predatory Bacteria Prey Exit Processes
Gurdyal S. Besra	Apoorva Bhatt	Life and Environmental Sciences	Biosciences	The molecular characterisation of the anti-bacterial properties of marine and soil natural products against zoonotic mycobacterial species
David Grainger	Pawel Grzechnik	Life and Environmental Sciences	Biosciences	Prokaryotic transcription: a new direction?
David Grainger	Jess Blair	Life and Environmental Sciences	Biosciences	Understanding Multiple Antibiotic Resistance in Gram-negative Bacteria.
David Grainger	Manuel Banzhaf	Life and Environmental Sciences	Biosciences	Understanding how pandemic microbes evolve
Patrick Moynihan	Andrew Lovering	Life and Environmental Sciences	Biosciences	Understanding mycobacterial immune stimulation through the study of novel glycoside hydrolases.
Pawel Grzechnik	Matthias Soller	Life and Environmental Sciences	Biosciences	Transcriptional regulators in human cells
Matthias Soller	Carolina Rezaval	Life and Environmental Sciences	Biosciences	Molecular genetic characterization of Drosophila reproductive behaviours for exploitation in insect population control
Matthias Soller	Peter Winn	Life and Environmental Sciences	Biosciences	Identification of pathways deregulating neuronal ELAV/Hu RNA binding proteins in neurodegeneration
Matthias Soller	Pawel Grzechnik	Life and Environmental Sciences	Biosciences	Charaterization of novel layer of gene regulation for essential brain functions
Graeme Kettles	Megan McDonald	Life and Environmental Sciences	Biosciences	Understanding the languages of plant-microbe combat
Philippa Borrill	Marco Catoni	Life and Environmental Sciences	Biosciences	Improving drought tolerance in wheat: is delayed senescence the answer?
Aga Gambus	Marco Saponaro	Life and Environmental Sciences	Biosciences	Regulation of replication machinery disassembly
Hung-Ji Tsai	Rebecca Drummond	Life and Environmental Sciences	Biosciences	Discovering Novel Pathogenic Factors during the Evolution of Antifungal Resistance.
Luisa Orsini	Ben Herbert	Life and Environmental Sciences	Biosciences	Resurrected crustaceans are the foundation for an evolving water decontamination and waste valorisation system
Michelle Buckner	Willem van Schaik	Life and Environmental Sciences	Biosciences	Can the microbiome be used to reduce the incidence of antimicrobial resistance?

Wei-Yu Lu	Graham Anderson	Life and Environmental Sciences	Biosciences	Investigate the hierarchical organisation and the dynamics of liver stem cell activation
Marco Catoni	Philippa Borril	Life and Environmental Sciences	Biosciences	Epigenetics contribution to plant genome evolution
Lindsey Compton	Estrella Luna-Diez	Life and Environmental Sciences	Biosciences	Understanding genetic mechanisms of complex agricultural traits for improving potato (*Solanum tuberosum*) breeding.
Aneika Leney	Helen Cooper	Life and Environmental Sciences	Biosciences	Developing mass spectrometry tools to characterise algae's highly efficient macromolecular machines
Warwick Dunn	Marco Lepore	Life and Environmental Sciences	Biosciences	Identification and characterisation of novel ligands presented by the Major Histocompatibility Complex class I-related gene protein (MR1)
Yun Fan	Chris Bunce	Life and Environmental Sciences	Biosciences	Understanding life after cell death
Yun Fan	Nik Hodges	Life and Environmental Sciences	Biosciences	Deciphering the regulation of necrosis
Megan McDonald	Graeme Kettles	Life and Environmental Sciences	Biosciences	Chromosomal plasticity and horizontal gene transfer in plant pathogenic fungi
Alicia Hidalgo	Yun Fan	Life and Environmental Sciences	Biosciences	Genetic mechanisms of central nervous system regeneration in *Drosophila.*
Alicia Hidalgo	Carolina Rezaval	Life and Environmental Sciences	Biosciences	Genetic and circuit mechanisms of structural brain plasticity and neurodegeneration in *Drosophila.*
Mike Tomlinson	Paul Harrison	Life and Environmental Sciences	Biosciences	Investigating cell-to-cell communication via tetraspanin-containing extracellular vesicles
Saverio Brogna	Yun Fan	Life and Environmental Sciences	Biosciences	Understanding the role that the RNA helicase UPF1 plays in transcription and RNA processing
Carolina Rezaval	Alicia Hidalgo	Life and Environmental Sciences	Biosciences	How does the brain make decisions when faced with conflicting options?
Warwick (Rick) Dunn	Gareth Lavery	Life and Environmental Sciences	Biosciences	How do gut-derived tryptophan metabolites impact on muscle metabolism and physiology?
Florian Busch	TBC	Life and Environmental Sciences	Biosciences	Quantifying the impact of photorespiration on the photosynthetic carbon uptake of plants
Jan Kreft	Chris Tselepis	Life and Environmental Sciences	Biosciences	Microbial and host interactions in the gut microbiome

Helen J. Cooper	Iain B. Styles	Life and Environmental Sciences	Biosciences	New tools for structural biology: Native ambient mass spectrometry
Nigel Maxted	Glenn Bryan	Life and Environmental Sciences	Biosciences	Investigation of the application of using crop wild relative diversity to mitigate the impact of climate change in potato (*Solanum tuberosum* L.)
Dr.Apoorva Bhatt	Steve Busby	Life and Environmental Sciences	Biosciences	Mechanisms of growth and virulence in pathogenic mycobacteria.
Apoorva Bhatt	Manuela Tosin	Life and Environmental Sciences	Biosciences	Identifying biosynthesis mechanism of virulence lipids in the tuberculosis-causing bacterium using chemical probes.
Daniel Gibbs	Juliet Coates	Life and Environmental Sciences	Biosciences	investigating targeted protein degradation in plant development and stress-response
Eva Frickel	Jason Mercer	Life and Environmental Sciences	Biosciences	Novel regulatory mechanisms driven by Human Guanylate Binding Proteins
Damon Huber	Manuel Banzhaf	Life and Environmental Sciences	Biosciences	Identification of novel accessory Sec components in bacteria using high-throughput methods
Scott Hayward	John Colbourne/Louisa Orsini	Life and Environmental Sciences	Biosciences	Establishing greater food security through understanding pollinator responses to stress
Manuel Banzhaf	Patrick Moynihan	Life and Environmental Sciences	Biosciences	Understanding Gram-negative envelope biogenesis using genome-wide approaches
Matthias Soller	Ferenc Mueller	Life and Environmental Sciences	Biosciences	Epitranscriptomic regulation of embryo development: function of RNA modifications during the maternal to zygotic transition of vertebrate embryos
Timothy J Knowles	Andrew Lovering	Life and Environmental Sciences	Biosciences	Elucidating the mechanisms of outer membrane biogenesis in Gram-negative bacteria
Lucy Crouch	TBC	Life and Environmental Sciences	Biosciences	How do infant gut microbes use N-glycans from breast milk as a nutrient source?
Pola Goldberg-Oppenheimer	Tim Overton	Engineering and physical sciences	Chemical engineering	Advanced, Integrated Device Technology (AIDTech) for Rapid, Portable Detection of Foodborne Pathogens - from ‘Farm to Fork’
Paula Mendes	Tim Overton	Engineering and physical sciences	Chemical engineering	Investigating the effect of nanoscale vibration cues on long-term bacterial adhesion
Shangfeng Du	Yun Fan	Engineering and physical sciences	Chemical engineering	Developing microbial fuel cell-based biosensors for water quality monitoring
Tim Overton	Francisco Fernandez-Trillo	Engineering and physical sciences	Chemical engineering	A new way of thinking about biofilm formation

Paul Davies	Anna Peacock	Engineering and physical sciences	Chemistry	Artificial metalloenzyme design with late transition metal active sites
Melanie Britton	Anna Peacock	Engineering and physical sciences	Chemistry	Artificial metalloproteins as novel MRI contrast agents
Rachel O'Reilly	Amanda Pearce	Engineering and physical sciences	Chemistry	Nanoparticle-based delivery to the heart
Sarah Pike	Maria Chiara Arno	Engineering and physical sciences	Chemistry	Hybrid Foldamer-Polymer Scaffolds as Novel Biomaterials for Wound Healing Applications
Sarah L. Horswell	Liam R. Cox	Engineering and physical sciences	Chemistry	Understanding the interactions between glycosylceramides, saposins and the cell membrane
Sarah L. Horswell	T.R. Dafforn	Engineering and physical sciences	Chemistry	Breaching Bacterial Cell Membranes
T.R. Dafforn	Sarah L. Horswell	Engineering and physical sciences	Chemistry	Bionanoparticle formation for drug discovery
Maria Chiara Arno	Matthew I. Gibson	Engineering and physical sciences	Chemistry	Cell-based therapies for tissue regeneration.
Paramaconi Rodriguez	Paco Fernandez-Trillo	Engineering and physical sciences	Chemistry	Affordable ligand-based electrochemical detection of bacterial toxins
Paco Fernandez-Trillo	Tim W Overton	Engineering and physical sciences	Chemistry	Nucleating the growth of biofilms for biocatalysis with polymer chemistry
Paco Fernandez-Trillo	Robin C May	Engineering and physical sciences	Chemistry	Novel transfection agents as tools for biology
Paco Fernandez-Trillo	Estrella Luna-Diez	Engineering and physical sciences	Chemistry	Nucleic acid delivery to plants. Towards improved protection and development of crops.
James Tucker	Sarah Horswell	Engineering and physical sciences	Chemistry	Biological Behaviour of Metal-modified DNA
James Tucker	Anna Peacock	Engineering and physical sciences	Chemistry	DNA molecular machines: Light-triggered Motion on a DNA Scaffold
Mike Hannon	Pawel Grzechnik	Engineering and physical sciences	Chemistry	Supramolecular recognition of specific nucleic acid structures in the untranslated region of viral genomes
Marco Saponaro	Agnieszka Gambus	Medical and dental Sciences	Institute of Cancer and Genomic Sciences	Transcription-replication crosstalk

Martin Higgs	Tim Barrett	Medical and dental Sciences	Institute of Cancer and Genomic Sciences	Studying how loss of lysine methylation affects DNA repair in neuronal cells
Rui Monteiro	Sascha Ott	Medical and dental Sciences	Institute of Cancer and Genomic Sciences	The role of dll4 in Haematopoietic Stem Cell emergence
Jon Frampton	Rui Montiero	Medical and dental Sciences	Institute of Cancer and Genomic Sciences	Understanding the consequences of ageing in adult stem cells
Fedor Berditchevski	Fiyaz Mohammed	Medical and dental Sciences	Institute of Cancer and Genomic Sciences	Structure and function of novel tetraspanin complexes involved in autophagy and biogenesis of exosomes.
Sovan Sarkar	Timothy Barrett	Medical and dental Sciences	Institute of Cancer and Genomic Sciences	Identifying autophagy regulators in human cellular platforms using human pluripotent stem cell models
Constanze Bonifer	Salam Assi	Medical and dental Sciences	Institute of Cancer and Genomic Sciences	The mechanism of a tissue-specific regulation of gene expression by a ubiquitously expressed transcription factor
Rui Monteiro	Roland Arnold	Medical and dental Sciences	Institute of Cancer and Genomic Sciences	Dissecting the role of novel haematopoietic regulators in Haematopoietic Stem Cells
Steve Thomas	Natalie Poulter	Medical and dental Sciences	Institute of Cardiovascular Sciences	Multi-modal imaging of the organisation of the cytoskeleton in platelet thrombi
Steve Watson	Dylan Owen	Medical and dental Sciences	Institute of Cardiovascular Sciences	Mechanism of signalling by tyrosine kinase receptors in platelets and T cells
Dylan Owen	Robin May	Medical and dental Sciences	Institute of Immunology and Immunotherapy	The composition-function relationship of the plasma membrane
Heather Long	Sarah Dimeloe	Medical and dental Sciences	Institute of Immunology and Immunotherapy	Exploring affinity-dependent metabolic imprinting of anti-viral T cell responses
Niharika A Duggal	Leigh Breen	Medical and dental Sciences	Institute of Inflammation and Aging	Skeletal muscle as a potential central link between sarcopenia and immune ageing
Daniel Tennant	Fabian Spill	Medical and dental Sciences	Institute of metabolism and systems research	Control of Cellular Life and Death by Mitochondrial Dynamics

Willem van Schaik	Michelle Buckner	Medical and dental Sciences	Institute of Microbiology and Infection	Horizontal transfer of antibiotic resistance plasmids in the human gut microbiome
Felicity de Cogan	Jack Bryant	Medical and dental Sciences	Institute of Microbiology and Infection	Effect of the Widespread Use of Antimicrobial Materials on Antimicrobial Resistance.
Joan Geoghegan	Willem van Schaik	Medical and dental Sciences	Institute of Microbiology and Infection	Understanding cell wall-anchored protein function during human colonisation and infection.
Bernhard Staresina	Kim Shapiro	Life and Environmental Sciences	Psychology	Shaping memories during sleep
Damian Cruse	Howard Bowman	Life and Environmental Sciences	Psychology	The neural and physiological mechanisms of conscious experience
Matthew Apps	Ali Khatibi; Andew Bagshaw	Life and Environmental Sciences	Psychology	Computational, psychological and physiological basis of fatigue: Combining decision neuroscience with spinal imaging
Magdalena Chechlacz	Hamid Dehghani	Life and Environmental Sciences	Psychology	Cognitive deficits and accelerated brain ageing in older adults at risk for undiagnosed sleep apnea
Magdalena Chechlacz	Georgios Gkoutos	Life and Environmental Sciences	Psychology	The genetics of cognitive ageing: neuromodulators and prefrontal cortex
Joseph Galea	Massimiliano Di Luca	Life and Environmental Sciences	Psychology	Examining the rules that govern skilled sequential behaviour in humans.
Davinia Fernández-Espejo	Magda Chechlacz	Life and Environmental Sciences	Psychology	Using multimodal neuroimaging to predict individual responses to electrical brain stimulation
Patricia Lockwood	Ole Jensen	Life and Environmental Sciences	Psychology	Behavioural and brain mechanisms of social learning and motivation
Stephane De Brito	Graeme Fairchild	Life and Environmental Sciences	Psychology	Enhancing Neuroimaging Genetics through Meta-analysis (ENIGMA Antisocial Behaviour working group
Ole Jensen	Giovanni Barontini	Life and Environmental Sciences	Psychology	Investigating attention and visual exploration using MEG based on optically pumped magnetometers.
Jennifer Cook	Ned Jenkinson	Life and Environmental Sciences	Psychology	Exploring the mechanistic role of dopamine in social cognition
Carmel Mevorach	Dietmar Heinke	Life and Environmental Sciences	Psychology	Brain mechanisms underlying atypical attention in the broader Autism and Schizophrenia phenotype
Alex Wadley	Sarah Aldred	Life and Environmental Sciences	Sport, Exercise and Rehabilitation Sciences	Investigating the role of immune checkpoints in the regulation of T-cell migration

Sarah Aldred	Eric Hill (aston)	Life and Environmental Sciences	Sport, Exercise and Rehabilitation Sciences	Stem cell models to study human brain health
Raymond Reynolds	James Tresilian (Warwick)	Life and Environmental Sciences	Sport, Exercise and Rehabilitation Sciences	The integration of visually-guided interception with balance.
Leigh Breen	Yu-Chiang Lai	Life and Environmental Sciences	Sport, Exercise and Rehabilitation Sciences	The influence of obesity, exercise and diet on age-related skeletal muscle deterioration: New mechanistic insights
Yu-Chiang Lai	Gareth Wallis	Life and Environmental Sciences	Sport, Exercise and Rehabilitation Sciences	Defining the role of the ubiquitin signalling in human skeletal muscle