MIBTP 2018 Entry Potential Supervisor and Project list with links to Schools/Institutes of Primary Supervisor

Supervisor 1	School 1	Supervisor 2	School 2	Project title
Aldred, Sarah	Sportex	Dunn, Warwick	Biosciences	Exploring the interactions between polyphenol consumption, exercise and metabolism in at risk human populations
Berditchevski, Fedor	Cancer and Genomic Sciences	Sundaresan, Rajesh	Cancer & Genomic Sciences	Structure and function of tetraspanin complexes involved in autophagy
Bonifer, Conny	Cancer and Genomic Sciences	Brown, Ben	Cancer & Genomic Sciences	Using genome-wide data to model signalling-responsive gene regulatory networks
Brogna. Saverio	Biosciences	Grzechnik, Pawel	Biosciences	Eukaryotic RNA biology: understanding the mechanism linking pre-mRNA processing to translation and NMD
Cook, Jennifer	Psychology	Alonso, Eduardo	Department of Computer Sciences, School of Mathematics, Computer Science & Engineering, City University London	Gaining insight into the biology of learning through Phelan McDermid Syndrome
Cox, Sophie	Chemical Engineering	Thomas, Owen; Alberini, Federico; Grover, Liam	Chemical Engineering	Scalable production of extracellular vesicles
Cunningham, Adam	Microbiology and Infection	Henderson, Ian	Microbiology and Infection	How do protective antibodies target the Gram-negative bacterial cell wall?
Dafforn, Tim	Biosciences	Tucker, James & Pola Oppenheimer	Chemistry and Chemical Engineering	Nano-construction using Viral “Lego”
Dafforn, Tim	Biosciences	Fernandez-Trillo, Francisco & Smith, Corrinne	Chemistry and Warwick Life Sciences	Unplugging the Global Drug Pipeline using Nanotechnology and Cryo-Electron Microscopy
Davies, Clare	Cancer and Genomic Sciences	Gambus, Aga	Cancer & Genomic Sciences	Exploring how arginine methylation impacts on DNA repair.
Fan, Yun	Biosciences	Hotchin, Neil	Biosciences	Regulation of apoptosis-induced cell proliferation in tissue homeostasis
Fan, Yun	Biosciences	Brogna. Saverio	Biosciences	Determining novel regulators of necrosis controlling neuronal cell death
Fernández-Espejo, Davinia	Psychology	Bagshaw, Andrew	Psychology	Neuroimaging and brain stimulation in the search for the functional architecture of consciousness
Fernandez-Trillo, Francisco	Chemistry	Overton, Tim & Simmons, Mark	Chemical Engineering	Nucleating the growth of biofilms for biocatalysis with polymer chemistry
Fernandez-Trillo, Francisco	Chemistry	Zhang, Zhenyu Jason & Gkatzionis, Kostas	Chemical Engineering	Improving the performance of bacteriocins as natural food additives through the use of nanotechnology
Fernandez-Trillo,	Chemistry	May, Robin &	Biosciences &	Novel transfection agents as tools for biology

Francisco		Jabbari, Sarah	Maths	
Gibbs, Daniel	Biosciences	Bassel, George	Biosciences	When the beginning marks the end: roles for the N-end rule pathway of protein degradation in plant development and stress-response
Gkatzionis, Kostas	Chemical Engineering	Bakalis, Serafim	Chemical Engineering	Characterisation of apitoxin (bee venom) and processing of its actives for pharmaceutical applications.
Grainger, David	Biosciences	Voelz, Kerstin	Biosciences	Lifestyle switching in Pathogenic Bacteria
Grainger, David	Biosciences	Blair, Jessica	Microbiology and Infection	Understanding Multiple Antibiotic Resistance in Gram-negative Bacteria.
Grainger, David	Biosciences	Grzechnik, Pawel	Biosciences	Toxic DNA; a model for all domains of life
Grand, Roger	Cancer and Genomic Sciences	Stewart, Grant	Cancer & Genomic Sciences	The role of the mammalian CNOT complex in the DNA damage response.
Grzechnik, Pawel	Biosciences	Brogna. Saverio	Biosciences	RNA metabolism in response to cellular stress
Hall, Rebecca	Biosciences	Robin May and Sara Jabbari	Biosciences and Maths	Elucidating the molecular mechanism of fungal environmental adaptation
Hall, Rebecca	Biosciences	Blair, Jessica	Microbiology and Infection	Elucidating the mechanism of antimicrobial resistance in polymicrobial infections
Hannon, Mike	Chemistry	Hodges, Nik & Stewart, Grant	Biosciences & Cancer and Genomics	Development of novel nano-agents to target DNA replication forks and modulate cell cycle and activity
Hayward, Scott	Biosciences	Colbourne, John and Orsini, Luisa	Biosciences	Climate change and pesticides: molecular and physiological processes underpinning pollinator responses to stress
Heinke, Dietmar	Psychology	Howard Bowman	Psychology	Developing and testing computational models of human cognitive abilities using EEG data: A case study in complex visual scene analysis
Hidalgo, Alicia	Biosciences	Carolina Rezaval, Richard Tuxworth, Iain Johnston	Biosciences	Genetic and molecular mechanisms of brain structural plasticity and neurodegeneration
Hidalgo, Alicia	Biosciences	Carolina Rezaval, Richard Tuxworth, Yun Fan	Biosciences	Genetic and molecular mechanisms of nervous regeneration and repair
Higgs, Martin	Cancer and Genomic Sciences	Saponaro, Marco	Cancer & Genomic Sciences	Investigating the role of protein lysine methylation in the DNA damage response.
Hoogenkamp, Maarten	Cancer and Genomic Sciences	Ward, Doug	Cancer & Genomic Sciences	The role of recruiting epigenetic regulators by the LMO2 complex in making cell fate choices
Huber, Damon	Biosciences	Knowles, Timothy	Biosciences	Structure and function of a novel Sec component
Johnston, Iain	Biosciences	Bassel, George	Biosciences	Evolution and synthetic engineering of bioenergetic organelles
Johnston, Iain	Biosciences	Bassel, George	Biosciences	Cellular social networks of organelles
Knowles, Tim	Biosciences	Henderson, Ian	Microbiology and Infection	Lipid transport in gram-negative bacteria.
Knowles, Tim	Biosciences	Henderson, Ian	Microbiology and Infection	Elucidating the mechanisms of outer membrane protein biogenesis

Kreft, Jan	Biosciences	Vigolo, Daniele	Chemical Engineering	Microfluidics and modelling to map antibiotic resistance of individual cells and populations
Kuehne, Sarah	Dentistry	Chapple, Iain	Dentistry	Biofilm modelling of bacterial-host interactions in disease pathogenesis
Lai, Yu-Chiang	Sportex	Lavery, Gareth	Sportex	Defining the role of the ubiquitin system in skeletal muscle atrophy
Leach, Lindsey	Biosciences	Sanchez-Moran, Eugenio	Biosciences	Molecular Cytogenetic Analysis of Meiotic Recombination in Potato
Lovering, Andrew	Biosciences	Knowles, Timothy	Biosciences	Structural Biology of Signalling Proteins In the Bacterial Predator Bdellovibrio
Luo, Zewei	Biosciences	Leach, Lindsey	Biosciences	Genetics of quantitative traits through a multi-omic approach
Luo, Zewei	Biosciences	Leach, Lindsey	Biosciences	Methods for quantitative genetic analyses in autotetraploids
Luo, Zewei	Biosciences	Leach, Lindsey	Biosciences	Ploidy driven change in meiotic recombination frequency
May, Robin	Biosciences	McNally, Alan	Microbiology and Infection	Understanding the evolution of virulence in Prototheca
McNally, Alan	Microbiology and Infection	Harrison, Freya	Warwick Life Sciences	Reconstructing the evolution of multi-drug resistant *E. coli*
Monteiro, Rui	Cancer and Genomic Sciences	Mueller, Ferenc	Cancer & Genomic Sciences	Elucidating the role of cis- and trans- regulation of transcription in the formation of blood stem cells
Mueller, Ferenc	Cancer and Genomic Sciences	Beggs, Andrew	Cancer & Genomic Sciences	Mechanism and sequence determinants of regulatory (Enhancer – promoter) interactions
Overton, Tim	Chemical Engineering	?		Investigating signal peptide functionality for bioprocessing
Parish, Jo	Cancer and Genomic Sciences	Roberts, Sally	Cancer & Genomic Sciences	Exploration of the global manipulation of transcriptional networks by human papillomavirus
Peacock, Anna	Chemistry	Britton, Melanie	Chemistry	Artificial metalloproteins as novel MRI contrast agents
Peacock, Anna	Chemistry	Davies, Paul	Chemistry	The design of artificial metalloenzymes with xenobiotic active sites
Peacock, Anna	Chemistry	Tucker, James	Chemistry	DNA molecular machines: Light activated shuttling on a DNA scaffold
Pikramenou, Zoe	Chemistry	Hodges, Nik	Biosciences	Luminescent lanthanide probes responsive to DNA targeting
Pikramenou, Zoe	Chemistry	Blair, Jessica	Microbiology and Infection	Localised antibiotic delivery and release with luminescent mesoporous silica nanoparticles
Reynolds, Raymond	Sportex	Greig, Carolyn	Sportex	Neural adaptations to age-related changes in vestibular hair cell function
Rezaval, Carolina	Biosciences	Soller, Matthias	Biosciences	Neural basis underlying mating decisions in fruit flies
Rezaval, Carolina	Biosciences	Hidalgo, Alicia	Biosciences	To eat or to mate? Neural basis of behavioural choices in fruit flies
Rodriguez, Paramaconi & Fernandez-Trillo, Francisco	Chemistry	Gibson, Matthew I	Med School Warwick	Affordable ligand-based electrochemical detection of bacterial toxins
Sanchez-Moran, Eugenio	Biosciences	Lindsey Leach/ Chris Franklin/ Kim Osman	Biosciences	Programmed remodelling of the chromosome axis: understanding its impact on the distribution of genetic crossovers during meiosis.

Saponaro, Marco	Cancer and Genomic Sciences	Higgs, Martin	Cancer & Genomic Sciences	Crosstalk between RNA Pol II transcription and DNA replication
Sarkar, Sovan	Cancer and Genomic Sciences	Frampton, Jon	Cancer & Genomic Sciences	Identifying the regulators of vesicle fusion events in autophagy using human stem cells
Soller, Matthias	Biosciences	Mueller, Ferenc	Cancer & Genomic Sciences	Epitranscriptomic mechanisms in the maternal to zygotic transition of vertebrate embryos
Soller, Matthias	Biosciences	Rezaval, Carolina	Biosciences	Molecular genetic characterization of Drosophila reproductive behaviours for exploitation in insect population control
Soller, Matthias	Biosciences	Winn, Peter	Biosciences	Identification of pathways deregulating neuronal ELAV/Hu RNA binding proteins in neurodegeneration
Soller, Matthias	Biosciences	Grzechnik, Pawel; Dominguez, Cyril	Biosciences; Leicester	mRNA epigenetics: Charaterization of novel layer of gene regulation for essential brain functions
Spyropoulos, Fotis	Chemical Engineering	Batchelor, Hannah	Pharmacy	Development of novel and industrially-relevant liquid pharmaceutical formulations for combination drug therapy
Tennant, Daniel	Metabolism and Systems Research	Ludwig, Christian	Metabolism and Systems Research	Investigating the interplay between oxygen and nutrients – how does oxygen keep us healthy?
Tomlinson, Mike	Biosciences	Dafforn, Tim	Biosciences	Investigating tetraspanins as molecular switches
Tucker, James and Horswell, Sarah	Chemistry	Dafforn, Tim	Biosciences	Biological Behaviour of Metal-containing Nucleic Acids
Turnell, Andrew	Cancer and Genomic Sciences	Davies, Claire	Cancer & Genomic Sciences	Investigating the function of the Anaphase Promoting Complex ubiquitin ligase in cell cycle control
Tuxworth, Richard	Cancer and Genomic Sciences	Kyriacou, Charalambos	Leicester	Investigating the neuronal response to DNA damage: implications for neurodegeneration
Wheatley, Mark	Biosciences	Horswell, Sarah	Chemistry	Investigating G-protein-coupled receptor (GPCR) activation.
Winn, Peter	Biosciences	Thomas, Chris	Biosciences	Deep Learning and Molecular Modelling for Predicting the Structure of Protein-Protein Interactions: Applications to Fundamental and Applied Biology