Molecules, Cells and Systems

Gene Expression

Principal Supervisor	University	Department	Co-Supervisor	Title of Project	Project description
BRINDLE, Professor Nicholas	Leicester	Biochemistry	HOLLOX, Dr Edward	Molecular evolution of tyrosine kinases and metazoan multicellularity	
GYORY, Dr Ildiko	Leicester	Biochemistry	PRITCHARD, Professor Catrin	Investigating the role of a novel tumour suppressor in an animal model of K-RAS-driven lung cancer	
SCHWABE, Prof John	Leicester	Biochemistry	REVYAKIN Dr, Andrey	Structural and functional studies of the general RNA polymerase II transcription factor TFIIH	
SCHWABE, Prof John	Leicester	Biochemistry	JAMIESON, Dr Andrew	Rationally Designed Chemical Tools to Dissect the Epigenetic Role of Histone Deacetylase Complexes	
COWLEY, Dr Shaun	Leicester	Biochemistry	SCHMID, DR Ralf	Understanding the role of HDAC1 in transcriptional activation	

Molecular Mechanisms

Principal Supervisor	University	Department	Co-Supervisor	Title of Project	Project description
BAYLISS, Dr Richard	Leicester	Biochemistry	JAMIESON, Dr Andrew	Exploring the cellular roles of Aurora-A protein-protein interactions using synthetic	

				proteomimetics	
COWLEY, Dr Shaun	Leicester	Biochemistry	SCHMID, Dr Ralf	Understanding the role of HDAC1 in transcriptional activation	
ECHALIER Dr, Aude	Leicester	Biochemistry/Cancer Studies and Molecular Medicine	BAYLISS, Dr Richard; SOBOTT, Frank	Investigation of a cancer-related protein interaction network at the molecular level	
EL-MEZGUELDI Dr, Mohammed	Leicester	Biochemistry	REVYAKIN Dr, Andrey	Investigation of the spatial and temporal distribution of actin binding proteins: calponin, caldesmon and tropomyosin in spines and dendrites using single-molecule super-resolution microscopy (STORM)	
EPERON, Prof Ian	Leicester	Biochemistry	HUDSON, Dr A	New ways to analyse complex reactions at the single molecule level	
EPERON, Prof Ian	Leicester	Biochemistry	REVYAKIN Dr, Andrey; HUDSON, Dr A	Single molecule microscopy of transcription and splicing	
FRY, Prof Andrew	Leicester	Biochemistry	FOSTER, Dr Steven	The role of NEK kinases in the DNA Damage Response	
MACIP, Dr Salvador	Leicester	Biochemistry	PILETSKY, Professor Sergey	Understanding and ameliorating ageing through	

				the characterization of novel effectors of senescence.	
MAKAROVA, Dr Olga	Leicester	Biochemistry	REVYAKIN, Andrey	Mechanisms of cross-intron bridging	
MOODY, Dr Peter	Leicester	Biochemistry	RAVEN, Dr Emma	Oxygen activation: Heme Enzymes	
REVYAKIN Dr, Andrey	Leicester	Biochemistry	COWLEY, Dr Shaun	Self-assembled DNA nano-antennas to record single-molecule movies of transcription activation in live embryonic stem (ES) cells	
SCHWABE, Prof John	Leicester	Biochemistry	REVYAKIN Dr, Andrey;	Structural and functional studies of the general RNA polymerase II transcription factor TFIIH	
SCHWABE, Prof John	Leicester	Biochemistry	JAMIESON, Dr Andrew	Rationally Designed Chemical Tools to Dissect the Epigenetic Role of Histone Deacetylase Complexes	
SHACKLETON, Dr Sue	Leicester	Biochemistry	SCHWABE, Prof John	Investigating the role of the LINC complex in myogenesis and myonuclear positioning through a combined interactome and structure-based approach	
TANAKA, Dr	Leicester	Biochemistry	KLIPP, Prof	Integrated	

Kayoko			Edda; BAYLISS, Dr Richard	understanding of regulatory mechanism of RAS-MAPK signalling	
VUISTER, Prof Geerten W	Leicester	Biochemistry	MITCHESON, Dr John	Regulation of Trp channels