

Research Project Proforma (School of Medicine)

Research Title:	'Proteomic biomarker discovery and functionality assessments in			
	orthopaedics and spinal cord injury'			
Keywords (up to 5)	Keywords: Proteomics; Biomarkers; Orthopaedics; Spinal Cord			
	Injury			
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Type of projects	Lab-based protein analyses of patient body fluids.			
offered (delete as	Computer-based analysis of protein networks.			
` .	Computer-based analysis of patient demographics, disease/injury			
appropriate)	characteristics and body fluid proteomes.			

(1) Outline the broad aims of your research and its medical relevance (150 words):

These studies aim to discover novel diagnostic, prognostic and predictive protein biomarkers in patient body fluids that can help to provide further valuable information to clinicians about orthopaedic injuries/diseases and spinal cord injuries. In doing so we hope that clinicians will be able to more accurately assign the best course of treatment to individuals. In addition, whole proteome analyses in these patients will provide a clearer picture of disease mechanisms and may highlight novel targets for the development of new treatments.

Students will have the opportunity to gain skills in complex protein detection and analysis techniques in the laboratory and in computer-based studies.							
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Please submit this	s form electronically	to Faye Palmer	at medicine.int	ercalation@keel	e.ac.uk		