PostDoc Job Opportunity

DUBLIN CITY UNIVERSITY	First Name	Last Name	email	Institute	Address
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School:	Nursing and Human Sciences				
Research Centre / group affiliation:	NICB				
Research group / centre website:	www.nicb.dcu.ie				

Brief summary of research group / centre activity:

As part of a DCU and St Vincent's University Hospital, Dublin collaboration a pancreatic cancer research program has been developed. This involves the creation of patient-derived xenograft of pancreatic cancer patients in Ireland. Material from these xeno-patients can be used to create primary cell culture models. These in vitro models help us better understand the nature of the pancreatic tumour cell, the mechanisms by which they associate with stromal cells and help elucidate strategies for targeting the tumour, the stoma or the tumour-stroma cross talk.

Description of postdoctoral project on offer:

The project involves the characterisation of primary cell culture cell bank created from first generation pancreatic xeno-patients. The examination of the proteomic and molecular profile as well as the characterisation of the drug resistance/sensitivity phenotype. Potentially interesting markers may be cross validated in vivo.

Ideally this project would result in a characterised pancreatic cell bank. This characterisation would tie in with other work within the collaboration and the examination of the changes in genotype and phenotype from primary patient tumour material, to xeno-patient material to in vitro cell line material.

There is significant scope within this project for the suitable candidate to explore their own interests

Please indicate the core skills or disciplines that are required for this position:

Cell Culture

Cell Characterisation techniques including but not limited to:

Protein Characterisation (eg western blotting, sample preparation for proteomics)

Molecular Characterisation (eg PCR)

Immuno-histochemical staining techniques.