Postdoctoral Position
Structural basis of ubiquitin signalling

A postdoctoral position is available in the newly established lab of Dr. Yogesh Kulathu to apply structural methods to gain insights into the molecular mechanisms underlying regulation of signalling enzymes by ubiquitylation. Polyubiquitylation regulates diverse cellular functions and eight different ubiquitin linkage types can be formed in cells. At present we only have limited knowledge of the cellular functions of some of these linkage types and the enzymes and mechanisms by which the different ubiquitin chain types are regulated. The lab uses an interdisciplinary approach to dissect ubiquitin-signalling to understand the underlying biochemical and structural mechanisms and genetic approaches to discover signalling nodes and pathways regulated by different ubiquitin modifications.

We are seeking an enthusiastic and highly motivated individual with experience in protein crystallography and wanting to work on interesting structural and mechanistic questions related to ubiquitin signalling. The work will involve X-ray crystallography and the laboratory has access to extensive crystallographic resources within the Unit and the College of Life Sciences, University of Dundee and is well equipped for protein production and purification. In addition, the successful candidate will benefit from the cutting edge facilities in biochemistry, cell biology, drug discovery, and proteomics available within the College of Life Sciences.

This position is available for 3 years and the appointment will be made at Grade 7 (£29,541 - £36,298)

MRC Protein Phosphorylation and Ubiquitylation Unit (PPU):

This project will be performed in the MRC Protein Phosphorylation and Ubiquitylation Unit (MRC-PPU), based within the College of Life Sciences at the University of Dundee. The MRC-PPU is one of the world's most renowned centres for research on protein phosphorylation and ubiquitylation (http://www.ppu.mrc.ac.uk/). Many world leading researchers in the field of signal transduction have trained within the MRC-PPU. The major aims of the MRC-PPU are to advance understanding of the role of protein phosphorylation and ubiquitylation in cell regulation and human disease, to facilitate the development of drugs to treat diseases caused by abnormalities in phosphorylation, to generate reagents and improve technologies. Another key remit of the MRC-PPU is to train the next generation of scientists who will advance our understanding in this crucial area of medical research. The MRC-PPU is in a beautiful location overlooking the estuary of the River Tay and embedded within the College of Life Sciences at the University of Dundee which is one of the premier Life Sciences research centres in the world.

Candidate requirements:

- PhD with outstanding academic track record and at least one first authored publication in an internationally recognised peer-reviewed journal
- Experience in recombinant protein expression, purification, crystallization and structure determination is required. In addition a strong background in Biochemistry and an interest in Signal Transduction would be preferable
- Ability to work in a team, but able to plan and work independently
- Excellent communication skills and proficiency in English

How to apply:

To apply on-line please visit: www.dundee.ac.uk/jobs. If you are unable to apply on-line please contact Human Resources on (01382) 386209 (answering machine) for an application pack. Please quote reference number LS0296.
Informal enquiries may be made to Yogesh Kulathu at y.kulathu@dundee.ac.uk