Dr P C E Moody - Structure and function of core metabolic enzymes in enteric pathogens.

_H pylori_ is the causative organism of gastric ulcers and _Campylobacter jejuni_ is a major cause of diarrhoea. Examples of both these organisms have had their full genomes sequenced. Our (and others) experimental work combined with analysis of the open reading frames has allowed us to reconsider the role of the glycolysis/gluconeogenic pathways away from the usual model of being for energy production and storage to a biosynthetic role. The project will involve cloning, expressing, purification, enzymatic characterisation, crystallisation and solving the crystal structures of key enzymes from these pathways. Experiments will then be devised in order to understand how these enzymes are adapted for their roles and if it is possible to design specific inhibitors that could be used as specific drugs to kill these bacteria.

http://www2.le.ac.uk/departments/biochemistry/staff/moody

Preliminary Publications.


Other representative group publications


