

CMPS seminar:

Monday 14 Feb, 15.15, KC Hall F

Professor, **Hans Vogel**, University of Calgary

Intracellular calcium signaling in mammals:

Calmodulin's IQ-test and variation in the EF-handome

This lecture will give you just one example of the rich repertoire of prominent research projects in Hans Vogel's group in Calgary.

Hans Vogel was a post doc here at LU Chemical Centre back in the early 1980s, and he will now be here at CMPS until end of June, so take this chance to get to know about his research.....

...which includes the three main research projects devoted to calcium-binding regulatory proteins, structure-function analysis of antimicrobial peptides as well as studies of iron uptake processes in bacteria. In all cases he uses structural techniques (mostly NMR spectroscopy) and other biophysical approaches (e.g. microcalorimetry, fluorescence spectroscopy or molecular dynamics calculations) to characterize the interactions between proteins and peptides with one another, or with metal ions or membranes. More recently he has also become involved in NMR-metabolomics studies of biofluids (e.g. serum), an approach that offers potential diagnostic or prognostic information for some diseases. In the past he has studied nucleic acid structure and metabolism in living cells by NMR.