

Protein kinases - attractive drug targets: the case of the RSK2 ser/thr kinase

Protein kinases make up a large family of enzymes, which regulate a range of cellular processes, including growth and metastasis. In recent years, kinases became an *né* of the most important targets for cancer and other drugs. The drug discovery process exploits the unique structural properties of these complex enzymes. The seminar will describe one such case, that of the RSK2 kinase, which undergoes extreme structural changes upon inhibition by a certain class of natural compounds. I will also show the role of C-H...hydrogen bonds in kinase-inhibitor interactions. Our overarching aim is to seek new anti hypertensive therapies.