

## MFPL Group Leader

### Friedrich PROPST

Friedrich Propst is Associate Professor for Biochemistry at the Department of Molecular Cell Biology of the University of Vienna (since 2000).

He studied Chemistry at the University of Graz (Austria) and got his PhD at the University of Innsbruck (Austria; 1981) after completing his thesis with Bernd Hamprecht at the Max-Planck-Institute for Biochemistry in Martinsried and the University of Würzburg (Germany). After a postdoctoral stay with George F. Vande Woude at the National Cancer Institute in Bethesda and in Frederick, Maryland (USA; until 1988), he has been a group leader at the Ludwig Institute for Cancer Research at St Mary's Hospital in London (until 1993) and at the Institute of Biochemistry and Molecular Cell Biology of the University of Vienna, Max F. Perutz Laboratories.

The group of Friedrich Propst is particularly interested in microtubule-associated proteins of the MAP1 family - MAP1A, MAP1B, and MAP1S. These proteins participate in the translation of extracellular signals into cytoskeletal reorganisation. The group has generated conventional and conditional knockout mice for two MAP1 genes and analyses alterations in axon guidance and glial cell function in vivo and in primary cell culture. A major focus are post-translational modifications of MAP1 proteins and other proteins of the cytoskeleton by S-nitrosylation and phosphorylation in signalling to the cytoskeleton. Other topics include the functions of MAPs in cell migration, the cell cycle, and tumourigenesis in non-neuronal cells. The methods of analysis range from imaging to cell biological, molecular, and biochemical techniques.