

Dipartimento di Biotecnologie e Bioscienze – UNIMIB

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From structural studies of ion channels to the development of synthetic peptides for pharmaceutical and biotechnological approaches

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Abstract: Ion channels represent a crucial class of membrane proteins as they control the membrane potential in response to extracellular and intracellular stimuli. Indeed, a vast repertoire of cell signalling pathways, especially in excitable cells as neurons, originate from ion channels activity. My research is primarily focused on the study of the structure-function relationship of eukaryotic ion channel proteins and on the regulatory mechanism exerted by ligands/auxiliary proteins on ion channels. I then employ this knowledge to develop synthetic peptides enable to control ion channel function in order to pose the basis for future pharmaceutical and biotechnological approaches.

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