

DIPARTIMENTO DI FARMACIA E BIOTECNOLOGIE

AVVISO DI SEMINARIO

Il giorno giovedì **30 marzo 2023** alle ore **12**

in presenza:

Aula 1 - FaBiT, via Belmeloro 6, Bologna BO

oppure in streaming:

<u>https://teams.microsoft.com/l/meetup-</u> join/19%3aN09c0NIyEssBnF70bCyD0QwkgDWm1qdd9f7F2nJV9fw1%40thread.tacv2/16315195 <u>44944?context=%7b%22Tid%22%3a%22e99647dc-1b08-454a-bf8c-</u> <u>699181b389ab%22%2c%22Oid%22%3a%225a941351-ef41-4aa4-8771-fa50a6d62ca1%22%7d</u>

Prof. Krzysztof Jóźwiak

Department of Biopharmacy, Medical University of Lublin, Lublin, Poland (ospite Prof.ssa Manuela Bartolini)

terrà un seminario dal titolo:

STRUCTURAL BIOLOGY OF GPCRs REVEALS NOVEL OPPORTUNITIES IN PRECISE DESIGN OF SIGNAL BIASED AGONISTS

Colleghi e studenti sono cordialmente invitati

Commissione Ricerca e Attività Correlate - FaBiT

BIOGRAPHICAL SKETCH



Prof. Jóźwiak is an expert in the molecular pharmacology and medicinal chemistry of membrane receptors with particular emphasis on G protein-coupled receptors. He uses a combination of molecular modeling, experimental affinity and functional efficacy studies to develop substances with a selective action on a specific receptor subtype and/or on a specific intracellular signaling event. The main achievements are the development of a series of novel subtype- and signal-selective agonists of the β_2 -adrenergic receptor, one of them endowed with a very effective dual action (β_2 -AR agonist and GPR55 antagonist), currently in preclinical development as drug candidate for

pancreatic cancer treatment; In another area professor Jozwiak developed a series of α_7 or $\alpha_3\beta_4$ selective allosteric modulators of nicotinic acetylcholine receptors. These discoveries are covered by two patents. Recently, he also contributed to the development of selective peptide analogs that regulate GPR116 adhesion receptor and of a TRL4 modulating ligand showing cardioprotective activities in vivo. Prof. Jóźwiak research activities also include modeling and testing multi-target pharmacophores to treat multifactorial diseases.

In 2012, Professor Jozwiak was granted by the European Federation for Medicinal Chemistry by the UCB-Ehrlich Award for Excellence in Medicinal Chemistry