“Combining Recombinant DNA and Chemical Synthesis Technology to Engineer Anti-HIV Proteins”

Monday – January 16, 2017 – 12:15 p.m.
EPFL – room SV1717

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host: Prof. Bruno Correia

Abstract

Through the progressive use of a combination of chemical synthesis and phage display approaches we have succeeded in generating optimized analogues of chemokine proteins that block CCR5-mediated entry of HIV into target cells with potency many orders of magnitude greater from the parent protein from which they were derived. One of these analogues, 5P12-RANTES, is now in clinical development as a medicine for HIV prevention. Several other analogues are proving to be valuable tools for investigating the pharmacology and cell biology of chemokine receptors. In my presentation I will describe the protein engineering techniques that were used in the discovery of these analogues and discuss how we are currently adapting them to facilitate their use in the search for potent inhibitors of other receptor target.

Sandwiches will be served

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