

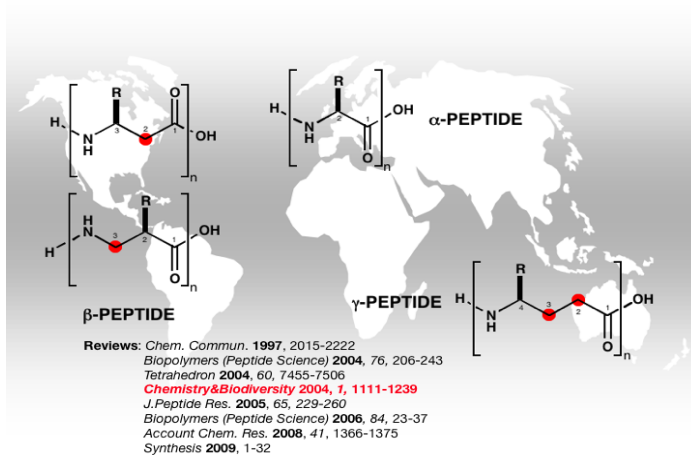
## CBC SEMINAR ANNOUNCEMENT



**Professor Dieter Seebach**  
**ETH Zurich**

### **$\beta$ -Peptides – from organic synthesis to biochemistry, biology, medicinal chemistry...and back**

The insertion of a  $\text{CH}_2$ -group into each and every residue of a peptide with proteinogenic side chains opens a door into a new world with similarities and, at the same time, fundamental differences of structures. The journey into this world was only possible by hard-core organic syntheses. The biological tests of proteolytically, as well as metabolically stable  $\beta$ -peptidic mimics of a number of  $\alpha$ -peptidic natural products and cell-permeating  $\beta$ -peptides will be described. The biological investigations have led to the discovery of  $\beta$ -peptide-cleaving enzymes, which can be used for kinetic resolutions of  $\beta$ -amino acids.



**Date:** 4<sup>th</sup> April 2012 (Wednesday)  
**Time:** 11am – 12:30pm  
**Venue:** NTU SPMS CBC Building Level 2,  
 Conference Room  
**Host:** Professor Koichi Narasaka