



Automne 2015

Conférence

au Département de chimie
présentée conjointement avec
PROTEO

CONFÉRENCIER

DATE

PROF. ERIK STRANDBERG

Karlsruhe Institute of Technology
Universität de Karlsruhe
Allemagne

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TITRE

Peptide-lipid interactions studied by solid-state NMR

RÉSUMÉ

The orientation of peptides in lipid bilayers can be determined by solid-state NMR (SSNMR) methods. Studies of several peptides in many different lipid systems have given a better understanding of the factors influencing the peptide orientation. In this talk the focus will be on the effects of lipid properties on the orientation of hydrophobic and amphipathic α -helical peptides. Two important effects will be described and discussed: (1) Hydrophobic matching, which can explain the tilt of transmembrane peptides (both hydrophobic and amphipathic) in membranes with different bilayer hydrophobic thickness; and (2) Lipid spontaneous curvature, which is related to the shape of the lipids, where a positive spontaneous curvature favours insertion of peptides and proteins into the bilayer.

La conférence aura lieu à **11h au VCH-3850 du Pav. A.-Vachon**
Cordiale invitation à toutes et à tous !

Hôte : **Prof. Michèle Auger**
Tél.: 418 656-3393 - Courriel : michele.auger@chm.ulaval.ca
Responsable des conférences A-2015 : **Prof. John Boukouvalas**
Tél.: 418 656-5473—Courriel : john.boukouvalas.chm.ulaval.ca



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Faculté des sciences et de génie
Département de chimie