

BIG seminar

Biology and integrative genetics

**Monday,
January 10
17h**

**Auditorium Bâtiment Biophore
Unil-Sorge at Dorigny**

**Gisou van der Goot
EPFL**



“Pore-forming proteins can be found in all organisms: what makes them so fascinating?”

All organisms from bacteria to humans produce pore-forming proteins often as a form of attack towards cells of their own or other organisms. Pathological forms of proteins such as α -synuclein and β -amyloid are also thought to form pores and thus contribute to diseases such as Parkinson and Alzheimer disease. The presentation will cover several aspects of pore forming proteins. A first structural part will deal with how these proteins can fold into two in principle incompatible states, that of being soluble when synthesized yet transmembrane when performing their function. In the second part, I will provide a view on how target cells react to this ancestral form of attack and manage, under limited damage, to restore cellular homeostasis and survive.

BIG is an initiative of the Faculty of Biology and Medicine, University of Lausanne, and is organized by Uta Paszkowski, Laurent Keller, Henrik Kaessmann and Jan Roelof van der Meer.

Info: www3.unil.ch/fbmens/reve/evenement_bigseminar_public.php contact: uta.paszchowski@unil.ch, janroelof.vandermeer@unil.ch,