

# CONFÉRENCE STEPHEN-HANESSIAN



**PROFESSEUR PAUL WENDER**  
DEPARTMENT OF CHEMISTRY  
STANFORD UNIVERSITY, CA

## “Function Through Synthesis-Informed Design: Therapeutic Leads for the Eradication of Aids and The Treatment of Alzheimer’s Disease”

### Résumé:

Our research program is directed at addressing unsolved problems of significance in chemistry, synthesis, biology, imaging, medicine and materials science. Much of this work is inspired by Nature’s library, a four billion year old record of chemical evolution on our planet – our planet’s chemome. Representative studies include the eradication of HIV/AIDS (Science 2008; Nature Chem. 2012, PNAS 2013), treating resistant disease with an emphasis on resistant cancer (PNAS 2008, Gyn. Oncology 2012; Mol. Pharmaceutics 2015), small molecule enhanced immunotherapy for cancer (Clin. & Exp. Immunology 2009), first-in-class approaches to neurological disorders such as Alzheimer’s disease and Fragile-X (lead ref: JACS 2015), and platform technology for the delivery of drugs including small molecules, peptides, proteins, siRNA, mRNA, plasmids, metals, polyphosphates, etc (Accounts 2013; ACS Nano 2014; Nature Comm. 2016; JACS 2016). These studies collectively are directed at achieving new or superior function (activity) through synthesis-informed, bio-inspired design (Accounts 2015). This lecture will focus on studies directed at the as yet unachieved goal of eradicating HIV/AIDS and a new approach to Alzheimer’s disease (lead agent now in a phase II clinical trial) and other neurological disorders.

- > Mercredi 14 septembre 2016
- > 11:00
- > Salle **G-815**  
Pavillon Roger-Gaudry

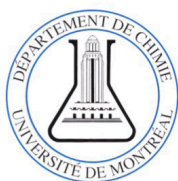
> **BIENVENUE À TOUS !**



Faculté des arts et des sciences  
Département de chimie

Merci à nos commanditaires

[chimie.umontreal.ca](http://chimie.umontreal.ca)



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