

# Faculté de pharmacie

## Séminaire de l'axe

«Formulation et analyse du médicament »



## «Nano "Solutions" for Cancer Therapy and Imaging »

**Mark Kester, Ph.D.**

Professeur et directeur, NanoSTAR institute  
The University of Virginia, É.-U.

**Mercredi, 10 février 2016**

**Pavillon Jean-Coutu**

**S1-131 – 12h00**

*À l'invitation du professeur Grégoire Leclair*

Mark Kester is a Professor of Pharmacology and the Director of the NanoSTAR Institute of the University of Virginia. He was previously the G. Thomas Passananti Professor of Pharmacology at Penn State Hershey College of Medicine and the inaugural Director of the Penn State Center for NanoMedicine and Materials. He received his B.S. in Biology and Economics from the State University of New York at Stony Brook in 1976 and his Ph.D. in Cell Biology from the State University of New York at Buffalo in 1982. Dr. Kester's research interests include the design, characterization and validation of nanotechnologies for targeted drug delivery. His laboratory has evaluated nanoliposomes, nanodendrimers and nanocolloids as effective drug delivery vehicles for pharmacological and molecular agents. Recent work focuses on nontoxic nanoscale systemic delivery systems for hydrophobic pro-apoptotic lipids as well as siRNAs that target mutated tumorigenic proteins. Dr. Kester has consulted with, or founded, several companies that have the license to his nano"Solutions". In addition, Dr. Kester is a co-author of *Integrated Pharmacology*, published by Elsevier, Ltd., which was recognized as a "highly commended textbook" by the British Medical Society.

New initiatives underway include "repurposing generics" through nanotechnology; delivery of bioactive lipids through nanotechnology; delivery of molecular-based therapies through nanotechnology and delivery of polypeptides and biologics through ORAL nanotechnology, the next revolution.