

### **"Endogenous-Inspired Hydrophobic Drug Delivery to Cancers: LDL-like Nano Particles Designed to *"Put the Drug in the Cancer's Food"*."**



**T**his presentation will discuss our new approaches to nanoparticle therapeutic drug and imaging agent delivery, as especially applied to hydrophobic drugs for metastatic cancer. Reverse-engineering the LDL as inspiration for nano-particle anti-cancer drug delivery, we are inspired to create new pure-drug, ligand-targeted, PET-imageable, nanoparticles, especially for metastatic disease. Thus, "Can we put the drug and the imaging agent in the cancer's food?" "Can endogenous uptake mechanism be used to make cancer cells take up a drug or imageable nanoparticle as though it was an LDL of essential materials?" But instead of being nutrients that feed the cell, Pure-Drug Nanoparticle (PDN) would retard the cells growth, kill it out right, or cause it to kill itself.

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Invité par Svetlana Eliseeva & Stéphane Petoud

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