COLLEGE OF PHARMACY
PHARMACEUTICAL SCIENCES
UNIVERSITY OF MICHIGAN

Pharmaceutical Sciences Seminar
27th John G. Wagner Lecture

Wednesday, September 27, 2023
4:00pm
NCRC Building 10 Research Auditorium

"Liposomal Antibiotics Induces Anticancer Immunity by Killing the Tumor Associated Bacteria"

Presented by:

Leaf Huang, PhD
Fred Eshelman Distinguished Professor
Eshelman School of Pharmacy
University of North Carolina at Chapel Hill

Abstract: Most human solid tumors contain bacteria or fungi which renders the tumor highly immunosuppressive. We hypothesized that killing the tumor associated microbiome will induce strong anticancer immunity. The seminar will discuss our recent results and the clinical implications.

Dr. Huang's research has been in the area of gene therapy and targeted drug delivery. He pioneered the liposome non-viral vector and has designed and manufactured the cationic lipid vector for the first non-viral clinical trial in 1992. He was also the first to publish the activity of polyethylene glycol (PEG) in prolonging the circulation time of liposomes. His current work centers around drug and gene delivery targeting tumor associated bacteria. He has authored or co-authored more than 600 papers with an H-index of 145. He is also the inventor or co-inventor of 23 US and foreign patents. In 2004, he received the Alec D. Bangham MD FRS Achievement Award, which is the highest honor in liposome research. He was the recipient of the 2013 Distinguished Pharmaceutical Scientist Award which is the highest scientific recognition of the American Association of Pharmaceutical Scientists. He was named a Highly Cited Researcher in "Pharmacology & Toxicology" and then in "Cross Field" each year since 2016. Dr. Huang has also co-founded 6 biotech start-ups in the past.

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