

CANCER CENTER SEMINAR SERIES



Vera P. Krymskaya, PhD

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Dr. Vera P. Krymskaya's research interests are in the signal transduction mechanisms of vascular and airway smooth muscle cell remodeling in pulmonary arterial hypertension (PAH), asthma, and COPD; and cellular and molecular mechanisms of rare lung diseases. Dr. Krymskaya has dedicated the last several years of her career to combating pulmonary lymphangiomyomatosis (LAM). Krymskaya's lab was responsible for the breakthrough step of discovering the function of the Tuberous Sclerosis Complex 2 (TSC2) gene. Dr. Krymskaya's study linked mutational inactivation of TSC2 in human LAM cells to the constitutive activation of mTOR/S6K1 signaling pathway and abnormal LAM cell growth. Dr. Krymskaya has also dramatically advanced translational LAM research by demonstrating that rapamycin inhibits LAM cell growth. This discovery identified rapamycin as a promising therapeutic strategy for LAM patients, and paved the way for rapamycin clinical trials worldwide. For this achievement Dr. Krymskaya has honored by the Science Advancement Award from The LAM Foundation.

“Rare Lung Diseases: from Mechanisms to Therapeutic Targeting”

Friday, October 29, 2010

Frohring Auditorium - BRB 105
12 pm - 1 pm