Università degli Studi di Roma "Tor Vergata"

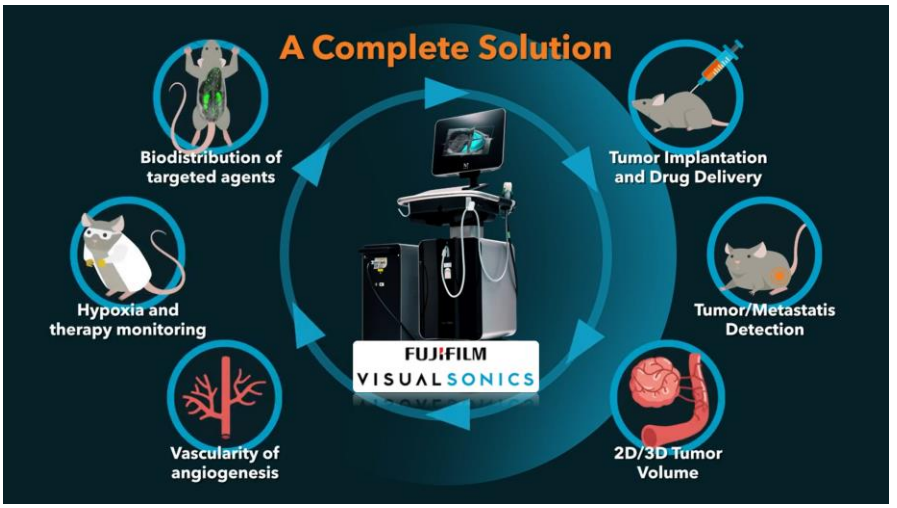
FUJIFILM | VISUALSONICS

Preclinical High Resolution Imaging

Università degli Studi di Roma "Tor Vergata"

Istituto Zooprofilattico Sperimentale del Lazio e della Toscana *M. Aleandri*

July 6, 2021 – Seminar (aula Bovet-Faculty of Medicine and Surgery)	
15:00 – 16:30	**The Value of in vivo imaging - Vevo Technology as Unique Platform in Preclinical Research** Seminar by Dieter Fuchs, Fujifilm VisualSonics Seminar and time for Q&A



July 7, 2021 – Module 1	
09:30 – 12:30	**Mouse echocardiography – Imaging according to the ESC recommendations** Animal model: Mouse transaortic constriction (TAC). Assessing stenotic flow, Aortic diameter, Carotid artery flow, systolic and diastolic function. 4D echocardiography
	Non-Surgical Vascular Access to the Mouse Carotid Artery Image guided injection into the mouse carotid artery. New application!!!

July 7, 2021 – Module 2	
14:30 – 18:00	**Mouse Aneurysm model** Aneurysm detection, sizing, vascular parameters
	Optional: capillary flow in/around the aneurysm using contrast agent

July 8, 2021 – Module 3	
09:30 – 12:30	**The effect of sterilization on mouse testicular anatomy** Volumetric quantification in 3D Assessing testicular vascularization in 3D and microcirculation using ultrasound contrast agent
	Breast Cancer – Transgenic mouse model Screening for breast cancer Volumetric quantification in 3D Assessing necrotic tumor areas and discussing, metastasis, monitoring of therapeutic effect, drug toxicity, development of treatment resistance and optimizing dosing schedules in combination therapy.
	Glioma Tumor – Transgenic mouse model Imaging without craniotomy: changes in brain blood flow and perfusion (contrast agents) Imaging with craniotomy: high definition images of the developing brain tumor. Discussion on cranial windows and alternative imaging techniques