Medical Imaging
UNIVERSITY OF TORONTO

VISITING PROFESSOR PROGRAM 2021-2022

Dr. Evis Sala, MD, PhD, FRCR

Professor of Oncological Imaging
University of Cambridge

Thursday March 31, 2022 | 9am–1pm
Lecture will be delivered on Zoom

Evis Sala is the Professor of Oncological Imaging at the University of Cambridge, United Kingdom (UK) and co-leads the Cancer Research UK Cambridge Centre Advanced Cancer Imaging Programme and the Integrated Cancer Medicine Programme.

Dr Sala's research focuses on the development and validation of functional imaging biomarkers to rapidly evaluate treatment response using physiologic and metabolic tumour habitat imaging. Her research in the field of radiogenomics has focused on understanding the molecular basis of cancer by demonstrating the phenotypic patterns which occur as a result of multiple genetic alterations that interact with the tumour microenvironment to drive the disease in several tumour types. Her work integrates quantitative imaging methods for evaluation of spatial and temporal tumour heterogeneity with genomics, proteomics and metabolomics. She is also leading multiple research projects focusing on the development and implementation of artificial intelligence methods for image reconstruction, segmentation, and data integration.

Dr Sala is an outstanding educator, orator and mentor. In recognition for her contribution to education and research in oncological imaging she received the Radiology Society of North America (RSNA) Honoured Educator Award in 2014, 2017 and 2020. Her leadership extends to the most important international bodies in the field, as Fellow of the International Cancer Imaging Society, Fellow of the International Society for Magnetic Resonance in Medicine, Fellow of the European Society of Urogenital Radiology and Fellow of the Royal College of Physicians.

Agenda:

9:00 – 9:05 **Introduction: Dr. Kartik Jhaveri, Continuing Medical Education Director, Department of Medical Imaging, University of Toronto**

9:05 – 10:00	**LECTURE 1:** **Update on Advanced MRI of Uterine Malignancies**
10:00 – 10:15	**BREAK**
10:15 – 11:45	**Case Review with Radiology Residents**
11:45 – 12:00	**BREAK**
12:00 – 1:00	**LECTURE 2:** **Integrated Radiogenomic for Unravelling Tumour Heterogeneity and Treatment Monitoring in Ovarian Cancer**

Learning Objectives:

LECTURE 1: Update on Advanced MRI of Uterine Malignancies

1. Discuss full & abbreviated MRI protocols for uterine malignancies
2. Review the added role of mpMRI in treatment selection, planning & monitoring of patients with uterine malignancies
3. Understand the incremental value of PET/MRI and radiomics

LECTURE 2: Integrated Radiogenomic for Unravelling Tumour Heterogeneity and Treatment Monitoring in Ovarian Cancer

1. Describe the radiogenomics framework for data integration
2. Outline the role of integrated radiogenomics in refining treatment response assessment and outcome prediction in neo-adjuvant setting
3. Understand the importance of non-invasive dynamic tracking of tumour heterogeneity

Register here: https://forms.office.com/r/k4D7eYWCb3