

Nano Course in Cardio-oncology - GS21 1351

Director: Dr. Jun-ichi Abe; Co-Director: Dr. Michael Ewer

Dates: Tuesdays and Thursdays between September 18 – November 6, 2018

Time: 3:00 – 4:00 pm

Place: Conference Room of the Department of Cardiology (FCT11.5011)

Class meets every day for two weeks.

For more information/questions: Dr. Keigi Fujiwara (713-745-8262);

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For course materials, go to: <https://mdacc.box.com/s/zpzif52mbmkd8xphta31fvh9x2mj9dvy>

Cardio-oncology is a medical subspecialty concerned with the diagnosis and treatment of cardiovascular diseases (CVDs) and organ failure mediated by macro- and micro-circulatory defects in cancer patients. The goal of cardio-oncology is for cancer patients to receive maximum and uninterrupted treatment for cancer while protecting them from cardiovascular complications mediated by the treatment. For this, we must understand both pathophysiology of CVDs and mechanisms of anti-cancer treatments.

The course is designed to provide an overview of the cardiovascular system in both normal and pathological states, of various cancer treatments, and the way (and how) cancer treatments affect the cardiovascular system and other organ functions. There will be 15 lectures, each 1 hour long. Students will be evaluated based on their class participation, attendance, and a review paper on subjects suggested by the lecturers.

There are no prerequisites for this course. Class size will be 4-20 students, including auditors. Auditors need to register for the course. There is no required textbook (materials and literature will be electronically provided).

Schedule

Sept.	18 (Tu)	Introduction to cardio-oncology	Dr. Michael Ewer
	20 (Th)	Introduction to cardiovascular physiology	Dr. Jun-ichi Abe
	25 (Tu)	Anti-cancer drugs and cardio-oncology	Dr. Nicolas Palaskas
	27 (Th)	Cardiovascular health during cancer care	Dr. Elie Mouhayar
Oct.	2 (Tu)	Acute coronary syndrome in cancer patients	Dr. Cezar Iliescu
	4 (Th)	Radiation and heart disease	Dr. Warmique Yusuf
	9 (Tu)	Assessment of cardiovascular function by echo	Dr. Jose Banchs
	11 (Th)	Role of MRI in cardio-oncology	Dr. Juan Lopez-Mattei
	16 (Tu)	Genes and cardio-oncology	Dr. Jean-Bernard Durand
	18 (Th)	Radiation and cardiovascular toxicity	Dr. Sunil Krishnan
	23 (Tu)	Cardiovascular toxicity in pediatric cancer patients	Dr. Eugenie Klieinerman
	25 (Th)	Angiogenesis and chemo/radiation-resistance	Dr. Sue-Hwa Lin*
	30 (Tu)	Neuro-toxicity of cancer treatment	Dr. Jacoba Heijnen*
Nov.	1 (Th)	Premature aging and cardio-oncology	Dr. Jun-ichi Abe
	6 (Tu)	Discussion	Drs. J. Abe and M. Ewer

*: Tentative