

TUMOR ENDOCRINOLOGY (TBIO/PBIO-595)

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All lectures at 10:30-12:00 pm in Basic Sci Rm 239 (Physiology Library)

Basic Concepts

Sept 9	Course Overview and Hormone receptor pharmacology	Robert Clarke, PhD DSc
Sept 11	Estrogens and cancer: basic concepts	Robert Clarke, PhD DSc
Sept 16	The vitamin A and vitamin D receptors - basic concepts	Stephen Byers, PhD
Sept 18	The estrogen receptors -structure and function	Anna Cabanes, DVM PhD
Sept 23	Steroid hormone biosynthesis	Robert Clarke, PhD DSc
Sept 30	The progesterone receptors - structure, function and biology	MaryBeth Martin, PhD
Oct 2	Steroids and tumor suppressor genes	Susan Olivo, MS

Translational Research and Epidemiology

Oct 7	Molecular epidemiology and hormone-dependent cancers-I	Peter Shields, MD
Oct 9	Molecular epidemiology and hormone-dependent cancers-II	Peter Shields, MD
Oct 14	Coregulators of steroid hormone receptor action	Richard Lee, PhD
Oct 16	Endocrine regulation of apoptosis	Kerry O'Brien, PhD
Oct 21	Timing of estrogen exposure and breast cancer risk	Leena Hilakivi-Clarke, PhD
Oct 23	Antiestrogen resistance and translational research	Robert Clarke
Oct 28	Diet, hormones and breast cancer risk	Leena Hilakivi-Clarke, PhD
Oct 30	Environmental estrogens and breast cancer risk	Leena Hilakivi-Clarke, PhD
Nov 4	Heavy metals as activators of steroid hormone receptors	MaryBeth Martin, PhD
Nov 6	Neuroendocrine tumors	Michael Lumpkin, PhD
Nov 11	Study time	
Nov 13	Mid-term exam	

Clinical aspects

Nov 18	Clinical management of endocrine responsive breast cancer	Minetta Liu, MD
Nov 20	Natural and synthetic retinoids: clinical aspects	
Nov 25	Thanksgiving	
Nov 27	Thanksgiving	
Dec 2	Ovarian and endometrial cancer	Bassem Haddad, MD
Dec 4	Molecular biology of AR and its role in prostate cancer	Edward Gelmann, MD
Dec 9	Stress, hormones and cancer risk	Leena Hilakivi-Clarke, PhD
Dec 12	Final term paper due	

Mid-term exam: In this written exam, the students will answer selected questions from lectures taken in the first part of the course.

Final exam: The students will write one essay on one topic selected from the curriculum and graded by the appropriate instructor.