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 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.