Hormone Action/Cancer Cell Biology
HBCG 6222 – Fall 2008
October 7 - December 12, 2008

Class Times:
Class discussions Tuesday, 9:30AM -11:30AM (may be modified to work within students’ schedules at initial class meeting)

Cancer Center seminars, Tuesday, 12 – 1pm. BMB seminars that are part of this course are Thursday, 4pm – 5pm. Discussions with speakers following these seminars, approx. 5pm – 7pm

Location: BSB 2.240

Textbook: References provided by Course Director, depending on the topic (see below).

Course Director(s): Dr. E. Brad Thompson, (409) 772-3367, bthompso@utmb.edu

Course Description: Min# Students: 3 Max# Students: 5

Hormone Action and Cancer Cell Biology – 2 Credit Hours
This course aims to provide students a clear understanding of the issues current in several major areas of hormone action, as related to cancer cell biology. These areas include action of nuclear hormone receptors, G-protein associated receptors and the hormones that act through them, non-G-protein associated membrane receptors and the hormones that act through them, and signaling molecules that act by way of hormone-like systems, but not usually classified strictly as hormones. In the course of examining these major systems, we will include consideration of aspects of signaling pathways as well as ligand: receptor actions.

The course is designed around student evaluations of assigned papers, with background lectures from the faculty, as needed. Invited speaker-teachers from other institutions will present seminars in the BMB seminar series and suggest papers for evaluation. Students will be required to attend these seminars and read these papers. Each week a student will be selected to present the chosen papers for class discussion. Students will have the opportunity to interact closely with the distinguished visitors.

During the period of the course, students also will be expected to attend the weekly seminars and any special seminars presented under the auspices of the Sealy Center for Cancer Cell Biology.

Grades:
Grading is based on critiques of papers, on appropriate attendance, participation in the discussions and quality of presentations.

The grading may be subject to change at the discretion of the director. Final course grades will be determined using the GSBS grading scale:
Students also will be required to complete an evaluation form about the course as part of their overall course grade. The constructive comments are in exchange for the student’s grade. If the evaluation form is not received, a grade of “Incomplete” will be reported to the Office of Enrollment Services. If the course requirements are not completed within 30 days, the grade automatically converts to a grade of Failure (F).

**Examinations/Evaluations:**

Any appeals for grading changes must be submitted within 1 week after receipt. The lecturers must report changes in grades to BMB Graduate Program Office.

**Excused Absences:**

Since the course is highly interactive, attendance and participation are required. Students can be excused from graded assignments without penalty to their grade if an excuse is obtained from Dr. Lillian Chan, Director of BMB Graduate Program or Dr. E. Brad Thompson, Course Director, **in advance**. If absences are excused, appropriate make-up work will be provided for students at the discretion of the director.

**Course Schedule:** speakers schedule is tentative, as finalized, the syllabus will be updated. Additional speakers may be added.

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<tr>
<th>Speaker</th>
<th>Institution</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Michel Tremblay</td>
<td>McGill University</td>
<td>Protein tyrosine phosphatases</td>
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<td>Ann Nardulli</td>
<td>University of Illinois</td>
<td>Estrogen receptor and cancer</td>
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<td>Carol A. Lange</td>
<td>U. Minnesota</td>
<td>Progesterone Receptor sumoylation, MAPK interactions and Cancer</td>
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<td>Michael Garabedian</td>
<td>New York University</td>
<td>Regulation of Androgen Receptor function in Prostate Cancer</td>
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<td>Stephen Safe</td>
<td>Texas A&amp;M University</td>
<td>Endocrine disrupting chemicals and Cancer</td>
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<tr>
<td>Evan Simpson</td>
<td>Monash Medical Centre; Melbourne, Aus</td>
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