BIOD27
Molecular Endocrinology
Winter 2014

Professor: Monica Sauer
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Office Hours (by appointment): Tuesdays 5pm - 6pm
Thursdays 4pm – 5pm

Appointments outside these hours can be arranged by e-mail. Please come prepared.

Lectures - Section 30: Tuesdays 6pm - 9pm
Section 31: Thursdays 5pm - 8pm

Recommended Text (in bookstore):
Endocrine Physiology, 3rd Ed. Patricia E. Molina. Publisher: McGraw-Hill-Lange

On reserve in Library:
Endocrinology (6th Ed.) by Mac Hadley & Jon Levine (Pearson Publishing)
Also useful:
Greenspan's Basic and Clinical Endocrinology: 8th Edition (Lange Medical Books)
The Endocrine System at a Glance by B. Greenstein, D. Wood (Wiley-Blackwell)

Evaluation Scheme:

<table>
<thead>
<tr>
<th>Evaluation</th>
<th>Material</th>
<th>Date</th>
<th>% of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1</td>
<td>Journal paper presentation – 20 min (in pairs)</td>
<td>Jan 24 – Mar 27</td>
<td>15</td>
</tr>
<tr>
<td>Participation</td>
<td>Evaluated as preparation and questions/input during student presentations</td>
<td>Throughout course</td>
<td>10</td>
</tr>
<tr>
<td>Term paper</td>
<td>2500 - 3000 words on approved topic</td>
<td>April 7th, 5:00pm</td>
<td>30</td>
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<tr>
<td>Term paper presentation</td>
<td>Poster Presentation</td>
<td>April 1st and 3rd</td>
<td>10</td>
</tr>
<tr>
<td>Final Exam* (3 hrs)</td>
<td>All lecture material with questions based on familiarity with all course material</td>
<td>TBA</td>
<td>35</td>
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</table>

* Note: final exam may be held on a Friday night or Saturday morning

Marks for each evaluation and exam will be posted on the intranet website for the course. It is each student’s responsibility to check her/his grade and to resolve any problems within 1 week of posting.

Deadlines for Assignments are firm. 3% will be deducted for late assignments plus an additional 1% for each day late. Only valid medical reasons, with proper UTSC documentation, will be accepted.

Final Exam: Students who miss the final exam must petition the registrar for permission to write a makeup exam. A makeup exam will be held at the end of the summer examination period (see UTSC calendar; http://www.utsc.utoronto.ca/~registrar ).
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
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<tbody>
<tr>
<td>Jan 7(^{th}) &amp; 9(^{th})</td>
<td>Introduction to endocrinology and hormone classes, endocrine systems, homeostatic regulation, as well as methodologies for endocrine research.</td>
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| Jan 14\(^{th}\) & 16\(^{th}\) | Hormonal control of Calcium Homeostasis  
Example journal presentation  
Overview of Literature Review and “How to write a research paper”  
-- **Topic for Term paper due** |
| Jan 21\(^{st}\) & 23\(^{rd}\)  | GI hormones  
Journal presentations 1 & 2 |
| Jan 28\(^{th}\) & 30\(^{th}\) | Growth Factors, Receptors and Signal Transduction  
Journal presentations 3 & 4  
-- **Bibliography due** |
| Feb 4\(^{th}\) & 6\(^{th}\)  | Growth Factors, Receptors and Signal Transduction  
Journal presentations 5 & 6 |
| Feb 11\(^{th}\) & 13\(^{th}\) | Pituitary structure and hormones; Hypothalamic structure and hormones Neurohormones  
Journal presentations 7 & 8  
-- **Outline of term paper due** |
| Feb 17\(^{th}\) – 21\(^{st}\) | Reading Week – no class |
| Feb 25\(^{th}\) & 27\(^{th}\) | Nuclear Receptors; Hypothalamic – Pituitary – Thyroid Axis ; Thyroid Hormones  
Journal presentations 9 & 10 |
| Mar 4\(^{th}\) & 6\(^{th}\) | Hypothalamic – Pituitary – Adrenal axis; Adrenal Hormones  
Journal presentations 11 & 12 |
| Mar 11\(^{th}\) & 13\(^{th}\) | Growth Hormones  
Journal presentations 13 & 14  
-- **Rough draft of term paper due** |
| Mar 18\(^{th}\) & 20\(^{th}\) | Endocrine regulation of sexual development  
Review of Term paper presentation format  
Journal presentations 15 & 16 |
| Mar 25\(^{th}\) & 27\(^{th}\) | Endocrine regulation of sexual development  
Journal presentations 17 & 18 |
| April 1\(^{st}\) & 3\(^{rd}\) | Term paper presentations (poster session) |
| April 7\(^{th}\) | **Term paper due by 5pm** |
| TBA             | **Final Exam – All lecture and assigned material** |