Biod27
Molecular Endocrinology
Winter 2015

Professor: Monica Sauer
Office: SW563B E-mail: monica.sauer@utoronto.ca

Office Hours (by appointment): Tuesdays 2pm - 4pm

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

Lectures: Tuesdays 4pm - 7pm

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 20 – Mar 24</td>
<td>15</td>
</tr>
<tr>
<td>Participation</td>
<td>Evaluated as questions/input during student presentations</td>
<td>Throughout term</td>
<td>5</td>
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<tr>
<td>Quizzes</td>
<td>During class time or online</td>
<td>Throughout term</td>
<td>15</td>
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<tr>
<td>Term paper</td>
<td>2500 - 3000 words on approved topic</td>
<td>March 31st, 4:00pm</td>
<td>25</td>
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<tr>
<td>Term paper presentation</td>
<td>Poster Presentation</td>
<td>March 31st</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>30</td>
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</table>

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

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).
# BIOD27H Molecular Endocrinology
Winter 2015 Lecture Topics and Class Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Jan 6&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Introduction to endocrinology and hormone classes, endocrine systems, homeostatic regulation, as well as methodologies for endocrine research.</td>
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</tbody>
</table>
| Jan 13<sup>th</sup> | Hormonal control of Calcium Homeostasis  
Overview of Literature Review and “How to write a research paper”  
Journal presentations 1 & 2  
**-- Topic for Term paper due** |
| Jan 20<sup>th</sup> | GI hormones  
Journal presentations 3 & 4 |
| Jan 27<sup>th</sup> | Growth Factors, Receptors and Signal Transduction  
Journal presentations 5 & 6  
**--Bibliography due** |
| Feb 3<sup>rd</sup> | Growth Factors, Receptors and Signal Transduction  
Journal presentations 7 & 8 |
| Feb 10<sup>th</sup> | Pituitary structure and hormones; Hypothalamic structure and hormones  
Neurohormones  
Journal presentations 9 & 10  
**--Outline of term paper due** |
| Feb 16<sup>th</sup> – 20<sup>st</sup> | Reading Week – no class |
| Feb 24<sup>th</sup> | Nuclear Receptors; Hypothalamic – Pituitary – Thyroid Axis ; Thyroid Hormones  
Journal presentations 11 & 12 |
| Mar 3<sup>rd</sup> | Hypothalamic – Pituitary – Adrenal axis; Adrenal Hormones  
Journal presentations 13 & 14 |
| Mar 10<sup>th</sup> | Growth Hormones  
Journal presentations 15 & 16  
**--Rough draft of term paper due** |
| Mar 17<sup>th</sup> | Endocrine regulation of sexual development  
Review of Term paper presentation format  
Journal presentations 17 & 18 |
| Mar 24<sup>th</sup> | Endocrine regulation of sexual development  
Journal presentations 19 & 20 |
| Mar 31<sup>st</sup> | Journal presentations 20 & 21 (if necessary)  
Term paper presentations (poster session)  
**Term paper due by 4pm** |
| TBA        | Final Exam – All lecture and assigned material |