

**BIOD27**  
**Molecular Endocrinology**  
**Winter 2015**

**Professor:** Monica Sauer

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**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: 8<sup>th</sup> Edition (Lange Medical Books)

The Endocrine System at a Glance by B. Greenstein, D. Wood (Wiley-Blackwell)

**Evaluation Scheme:**

Evaluation	Material	Date	% of Final Grade
Assignment 1	Journal paper presentation – 20 min (in pairs)	Jan 20 – Mar 24	15
Participation	Evaluated as questions/input during student presentations	Throughout term	5
Quizzes	During class time or online	Throughout term	15
Term paper	2500 - 3000 words on approved topic	March 31 <sup>st</sup> , 4:00pm	25
Term paper presentation	Poster Presentation	March 31 <sup>st</sup>	10
Final Exam* (3 hrs)	All lecture material with questions based on familiarity with all course material	TBA	30

\* **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**

<b>Date</b>	<b>Topic</b>
Jan 6 <sup>th</sup>	Introduction to endocrinology and hormone classes, endocrine systems, homeostatic regulation, as well as methodologies for endocrine research.
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 <b>-- Topic for Term paper due</b>
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 <b>--Bibliography due</b>
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 <b>--Outline of term paper due</b>
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 <b>--Rough draft of term paper due</b>
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) <b>Term paper due by 4pm</b>
TBA	<b>Final Exam – All lecture and assigned material</b>