

BI 358 Discussion Session 8

I. Attendance + Q?

II. Quiz 4

III. Feedback on papers (update).

IV. Additional Assignment: Endocrine case history (pp 8-2 thru 8-7 DLN) to prepare for



Dr. Cirullo's lecture this Thursday! 😊...Yahoo!

Go work on your presentations & papers & maybe relax?!



Additional Research Paper Tips

- UO Library web site: <http://library.uoregon.edu>
 - Articles (It's a tab!)
 - Databases (A-Z) (Link, bottom right hand corner of box with Article's tab)
 - Web of Science
 - Pubmed
 - Google Scholar
 - Citing heavily from the wrong source?
 - Reviews
 - Primary literature too old/dated.
 - Prefer at least some >2010-2013
- WR320 Scientific & Technical Writing (Offered Spring 2013!)
 - Chicago Guide to Communicating Science (by S. L. Montgomery)
 - MIT Guide to Science and Engineering Communication (by J. G. Paradis & M. L. Zimmerman)
- Avoid repetitive word choice. Be concise.
- References- Be Consistent!!! Spacing, notation, etc.
 - Preferably in a scientific notation format.
- Working on transitions:
 - <http://writingcenter.unc.edu/handouts/transitions/>
- How to write like a scientist (fun read):
 - http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2012_03_23/caredit.a1200033

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[FINDTEXT](#) [+](#) (0) | Save to: [ENDNOTE® WEB](#) [ENDNOTE®](#) [I Wrote These Publications](#) [R](#) [more options](#)**ESTROGEN-REGULATED SYNTHESIS OF NEUROTENSIN IN NEUROSECRETORY-CELLS OF THE HYPOTHALAMIC ARCUATE NUCLEUS IN THE FEMALE RAT**Author(s): [ALEXANDER, MJ](#) (ALEXANDER, MJ)Source: [ENDOCRINOLOGY](#) Volume: 133 Issue: 4 Pages: 1809-1816 DOI: 10.1210/en.133.4.1809 **Published: OCT 1993**Times Cited: **24** (from Web of Science)Cited References: **51** [[view related records](#)] [Citation Map](#)

Abstract: Neurotensin (NT) is implicated as a neurohormone in mammals, yet the peptide's neuroendocrine role remains to be determined. NT immunoreactivity has been observed in neurosecretory cells of the arcuate nucleus and paraventricular nucleus, and data suggest that NT release into hypophysial portal blood mediates a component of PRL secretion that is female specific and dependent on ovarian steroids. In the present study, in situ hybridization histochemistry and immunohistochemistry were used to investigate the regulation of NT gene expression in hypothalamic neurosecretory regions of adult rats. In ovariectomized females, estradiol induced expression of messenger RNA (mRNA) encoding NT and neuromedin N (NT/N mRNA) in the dorsomedial division of the arcuate nucleus. In contrast, estradiol did not appreciably alter NT/N mRNA expression in the ventrolateral division of the arcuate nucleus, where labeled cells were numerous, or in the paraventricular nucleus, where labeled cells were virtually absent. Estradiol also increased NT immunoreactivity in the external zone of the median eminence, confirming the neuroendocrine phenotype of NT cells in the dorsomedial division, as well as estrogen-regulated synthesis of NT in this system. In the dorsomedial division of cycling females, NT/N mRNA-expressing cells were significantly more numerous at proestrus than at diestrus, consistent with differences in plasma estradiol levels at these stages. In this same region, NT/N mRNA-expressing cells were significantly more numerous in proestrous females than in gonad-intact males. These results imply that estrogen-regulated release of NT at the median eminence subserves one or more sexually differentiated functions and are consistent with the involvement of tuberoinfundibular NT in estrogen-dependent secretion of PRL or GnRH on the afternoon of proestrus.

Accession Number: [WOS:A1993MA41100044](#)

Document Type: Article

Language: English

KeyWords Plus: HORMONE-RELEASING HORMONE; MESSENGER-RNA LEVELS; NEUROMEDIN-N; PROLACTIN-RELEASE; LUTEINIZING-HORMONE; MEDIAN-EMINENCE; PREOPTIC AREA; PARAVENTRICULAR NUCLEUS; IMMUNOREACTIVE NEURONS; ANTERIOR-PITUITARY**Reprint Address:** ALEXANDER, MJ (reprint author), BOSTON UNIV,SCH MED,DEPT PHARMACOL & EXPTL THERAPEUT,80 E CONCORD ST,BOSTON,MA 02118, USA.**Publisher:** ENDOCRINE SOC, 4350 EAST WEST HIGHWAY SUITE 500, BETHESDA, MD 20814-4110**Web of Science Categories:** Endocrinology & Metabolism**Research Areas:** Endocrinology & Metabolism**IDS Number:** MA411**ISSN:** 0013-7227

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The regulatory role of neurotensin on the hypothalamic-anterior pituitary axons: Emphasis on the control of thyroid-related functions

Author(s): Stolakis, V (Stolakis, Vasileios)^[1]; Kalafatakis, K (Kalafatakis, Konstantinos)^[1]; Botis, J (Botis, John)^[1]; Zarros, A (Zarros, Apostolos)^[1]; Liapi, C (Liapi, Charis)^[1]

Source: NEUROPEPTIDES Volume: 44 Issue: 1 Pages: 1-7 DOI: 10.1016/j.npep.2009.09.005 Published: FEB 2010

Times Cited: 5 (from Web of Science)

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Abstract: Neurotensin (NT) is a 13 amino acid neurohormone and/or neuromodulator, located in the synaptic vesicles and released from the neuronal terminals in a calcium-dependent manner. This peptide is present among mammalian and nonmammalian species, mainly in the central nervous system and the gastrointestinal tract. Due to its neuroendocrine activity, NT has been related to the pathophysiology of a series of disorders, such as schizophrenia, drug-abuse, Parkinson's disease, cancer, stroke, eating disorders and other neurodegenerative conditions. Moreover, NT participates in the physiology of pain-induction, central blood pressure Control and inflammation. NT also plays an important interactive role in all components of the hypothalamic-anterior pituitary circuit, which is mediated by an endocrine, paracrine or/and autocrine manner, towards most of the anatomical regions that define this circuit. A considerable amount of data implicates NT in thyroid-related regulation through this circuit, the exact mechanisms of which should be further investigated for the potential development of more targeted approaches towards the treatment of thyroid-related endocrine diseases. The aim of this study was to provide an up-to-date review of the literature concerning the regulatory role of NT on the hypothalamic-interior pituitary axons, with an emphasis on the control of thyroid-related functions. (C) 2009 Elsevier Ltd. All rights reserved.

Accession Number: WOS:000274819500001

Document Type: Review

Language: English

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Author(s): **Stolakis, Vasileios ; Kalafatakis, Konstantinos ; Botis, John ; et al.**
Source: **NEUROPEPTIDES** Volume: **44** Issue: **1** Pages: **1-7** DOI: **10.1016/j.npep.2009.09.005** Published: **FEB 2010**

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Author(s): Zogovic, B.; Pilowsky, P. M.
Source: **BRITISH JOURNAL OF PHARMACOLOGY** Volume: **166** Issue: **1** Special Issue: **SI** Pages: **378-389** DOI: **10.1111/j.1476-5381.2011.01760.x** Published: **MAY 2012**
Times Cited: **2** (from Web of Science)
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2. Title: **Neurogenic bowel dysfunction in patients with spinal cord injury, myelomeningocele, multiple sclerosis and Parkinson's disease**
Author(s): Awad, Richard A.
Source: **WORLD JOURNAL OF GASTROENTEROLOGY** Volume: **17** Issue: **46** Pages: **5035-5048** DOI: **10.3748/wjg.v17.i46.5035** Published: **DEC 14 2011**
Times Cited: **1** (from Web of Science)
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3. Title: **Contribution of neurotensin in the immune and neuroendocrine modulation of normal and abnormal enteric function**
Author(s): Kalafatakis, Konstantinos; Triantafyllou, Konstantinos
Source: **REGULATORY PEPTIDES** Volume: **170** Issue: **1-3** Pages: **7-17** DOI: **10.1016/j.regpep.2011.04.005** Published: **OCT 10 2011**
Times Cited: **2** (from Web of Science)
FINDTEXT [[View abstract](#)]
4. Title: **Thyroid hormone regulation by stress and behavioral differences in adult male rats**
Author(s): Helmreich, Dana L.; Tylee, Daniel
Source: **HORMONES AND BEHAVIOR** Volume: **60** Issue: **3** Pages: **284-291** DOI: **10.1016/j.yhbeh.2011.06.003** Published: **AUG 2011**
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Class Schedule

Spring 2013


Writing

118 Prince Lucien Campbell, 541-346-3911

English, College of Arts and Sciences


uoregon.edu/~encl/

Course Data

WR 320 Scientific & Techn Wr	4.00 cr.						
Emphasis on form, function, and style of scientific, professional, and technical writing; weekly writing assignments include proposals, reports, definitions, instructions, summaries. Use of documentation in publication.							
Grading Options:	Graded for Majors; Optional for all other students						
Instructor:	Boscha T  Office: 236 PLC Phone: (541) 346-0056						
Only Open to Majors Within: College of Arts & Sciences (before 03/07)							
Not Open to:	Freshman, Sophomore						
!Prereqs/Comments:	Prereq: Completion of University Writing Requirement; junior standing.						
CRN	Avail	Max	Time	Day	Location	Instructor	Notes
37292	21	21	1400-1450	mwf	1 EARL	Boscha T	!

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Deadline	Last day to:
March 31:	Process a complete drop (100% refund, no W recorded)
April 7:	Drop this course (100% refund, no W recorded)
April 7:	Process a complete drop (90% refund, no W recorded)
April 8:	Drop this course (75% refund, no W recorded; after this date, W's are recorded)
April 8:	Process a complete drop (75% refund, no W recorded; after this date, W's are recorded)
April 10:	Add this course
April 10:	Last day to change to or from audit
April 14:	Withdraw from this course (75% refund, W recorded)
April 21:	Withdraw from this course (50% refund, W recorded)
April 28:	Withdraw from this course (25% refund, W recorded)
May 19:	Withdraw from this course (0% refund, W recorded)
May 19:	Change grading option for this course

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