Chemistry 474: Neurochemistry

CRN: 39000

Instructor: Dr. Kelly Drew

Office/office hrs: Murie 223F, MWF 10-12:00

Telephone: 474 7190

e-mail: kdrew@alaska.edu

Lecture: TR, 9:4511:15, Reichardt Room38

Homework: Assignments posted oreviews of selected articles). Up to 3 HW assignments can be substituted

Course Description: Course will cover basic and applied aspection term assignating Lectures will be based on

chapters of assigned texts well as recent and historical literature relevant to these topics. Basiconcepts in lecture will be applied through guided discussion original research papers.

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Course objectives

PrerequisiteBIOL F115 and CHEM F322; and PSY F335, or BIOL B417 or CHEM F470 Lectures exams and quizzes will focus on the following objectives for each neurotransmitter/neromodulator discussed.

- ‡ Know functions and diseases associated with neurotrans/metteomodulator
- ‡ Recognize structure activity relationships and structural similarities between endogenous neurotransmitter, agonists and antagonists.
- ‡ Be able to address detailed mechanisms of neurochemical transmission
- ‡ Synthesis
- ‡ Storage
- ‡ Regulated release
- ‡ Receptor subtypes and effectors
- ± Termination of effect
- ‡ Know basic neurochemical anatomy of transmitter system

(Homework)Students will be guideby the instructor through critical evaluation of peeviewed papers to achieve the following objectives:

‡ Know how todeciphera scientific paper

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Grading:

for when homework is duePermission to hand HW via email may be arranged in advance and wi not be accepted without prior arrangementate homework will not be acceptedunless arrangement are made before the homework is late. There will be no nonlakexams or quizzes except under extreme circumstances. If such circumstances arise notifyDrew (4747190)before the scheduled time of the exam. If a make exam is approved it must be completed within 1 week of the original exam. Any student suspected by the instructor of cheating on a quiz or exam may be assigned a grade of F; course drop forms will not be signed in these castesletter grades assigned wilbe based on the overall performance of the classus will usually be in the range09100=A, 8090=B, 70-79=C, 6069=D, and below 60 is failing.

Add seminars anddrop a quiz option

You may choose topurnal your impressions 3, online seminars atttp://neuroseries.info.nih.gov/and drop one qz grade. You will be asked torn in your journal kept while watching the seminars

Disabilities:

Students with a physical or learning disability are resulto identify themselves to Mary Matthews (> 7043) in the Disability Services office, located in the Center for Health and Counseling. The students provide documentation of the disability. Disability Services will then notify Prof. Drew of sparrangements for taking tests, working homework assignments, and doing lab work.

Assignments for Chemistry474

2 Exams (100 pts ea.) 200 pts 3 Quizzesor 2 quizzes -optional(25 pts ea.) 75 pts Presentations of original research papers