Provisional Syllabus: Advanced Topics in Neuropsychopharmacology

Aka: Pharm 550, INSC 576, INSC 600-006 and 600-007, and Psyc 750

Course Director: Irwin Lucki, Ph.D.
Departments of Psychiatry and Pharmacology
2204 Translational Research Laboratory
573-3305; lucki@mail.med.upenn.edu

An organizational meeting for the course will be held on Thursday, January 15, 2013 at 1:30 pm.

Proposed meeting time: Tues & Thursday, 1:30 – 2:45, First floor Conference Room (124 TRL), Translational Research Laboratory (125 South 31st Street).

Neuropsychopharmacology Part I. Stress Neurobiology and Substance Abuse

Section Director: Rita J. Valentino, Ph.D.

1 1/15 Introduction and orientation Irwin Lucki
2 1/20 Biological basis for stress, emotional arousal and psychiatric disorders Rita Valentino
3 1/22 Literature - discussion Rita Valentino
4 1/27 Developmental psychopharmacology Kim Urban
5 1/29 Literature - discussion Kim Urban
6 2/3 Validity of animal models of psychiatric disorders Caroline Browne
7 2/5 Psychiatric syndromes and R-Doc Ayelet Ruscio

Valentino: rjv@mail.med.upenn.edu

Section II: Substance Abuse Disorders

Section Director: Julie Blendy, Ph.D.

7 2/5 Clinical Overview (definitions, epidemiology, treatments) Kyle Kampman
8 2/10 Behavioral models of drug addiction and reward Victoria Sanchez
9 2/12 Development of treatments for substance abuse disorders Julie Blendy
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>10 2/17</td>
<td>Addiction to prescription and nonprescription opioids</td>
<td>Julie Blendy</td>
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<tr>
<td>11 2/19</td>
<td>Nicotine</td>
<td>Mariella De Biasi</td>
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<tr>
<td>12 2/24</td>
<td>Alcohol</td>
<td>Mariella De Biasi</td>
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<tr>
<td>13 2/24</td>
<td>Psychomotor stimulants</td>
<td>Chris Pierce</td>
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<tr>
<td>14 3/3</td>
<td>Epigenetics and vulnerability to addiction</td>
<td>Matt Wimmer</td>
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<tr>
<td>15 3/5</td>
<td>Imaging the addicted brain – translational perspectives</td>
<td>Anna Rose Childress</td>
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Pierce: rcpierce@mail.med.upenn.edu

March 7-15  Spring Break

**Neuropsychopharmacology Part II. Affective Disorders and Schizophrenia**

**Section III: Depression and Anxiety**

**Section Directors: Irwin Lucki, Ph.D. and Wade Berrettini, M.D., Ph.D.**

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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>16 3/17</td>
<td>Clinical Overview of Affective Disorders and Anxiety</td>
<td>Ted Satterwaite</td>
</tr>
<tr>
<td>17 3/19</td>
<td>Genetic Mechanisms Underlying Affective Disorders</td>
<td>Wade Berrettini</td>
</tr>
<tr>
<td>18 3/24</td>
<td>Literature - discussion</td>
<td>Wade Berrettini</td>
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<tr>
<td>19 3/26</td>
<td>Pharmacological and Behavioral Effects of Antidepressants</td>
<td>Irwin Lucki</td>
</tr>
<tr>
<td>20 3/31</td>
<td>Pharmacological and Behavioral Effects of Anxiolytics</td>
<td>Irwin Lucki</td>
</tr>
<tr>
<td>21 4/2</td>
<td>Pathophysiology of social stress</td>
<td>Olivier Berton</td>
</tr>
<tr>
<td>22 4/7</td>
<td>Literature - discussion</td>
<td>Olivier Berton</td>
</tr>
<tr>
<td>23 4/9</td>
<td>Affective Disorders and Neuroimaging</td>
<td>Yvette Sheline</td>
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Lucki: lucki@mail.med.upenn.edu
Berrettini: wadeb@mail.med.upenn.edu

**Section IV: Other Behavioral Disorders**

**Section Director: Steven Siegel, M.D., Ph.D.**
24 4/14  Animal Models Related to Schizophrenia  Steve Siegel
25 4/16  Literature – discussion  Steve Siegel
26 4/21  Genetics and Etiology of Schizophrenia  Wade Berrettini
27 4/23  Literature – discussion  Wade Berrettini
28 4/28  Social Affiliation as a Rodent Model of Autistic Behavior  Ted Brodkin

Siegels: siegels@mail.med.upenn.edu

Final take home exam due on University calendar.

This course is supported by faculty participation from the following NIH training programs:

Training Program in Neuropsychopharmacology:  Irwin Lucki, Ph.D., Director and Wade Berrettini, M.D., Ph.D., Co-director.

Schizophrenia, A Neuropsychiatric Perspective:  Raquel Gur, M.D., Ph.D., Director.

Translational Addiction Research Fellowship Program: Anna Rose Childress, Ph.D. and R. Christopher Pierce, Ph.D., Co-Directors.

Supplemental Material

Each lecture and reading material will be available for download as powerpoint or pdf files from Blackboard.