Co-Directors: Ed Levin and Tim Strauman
Medical Director: Ashwin Patkar
Education Director: Cindy Kuhn
Senior Advisor: TK Li
Interdisciplinary Approaches to Solve Risks of Addiction and other Maladaptive Behaviors
SPECIAL ARTICLE

SHATTUCK LECTURE

We Can Do Better — Improving the Health of the American People

Steven A. Schroeder, M.D.
Maladaptive Behaviors Are Costly

40% of premature deaths are the result of maladaptive behavior.

Schroeder, 2007, NEJM
Figure 2. Numbers of U.S. Deaths from Behavioral Causes, 2000.

Among the deaths from smoking, the horizontal bar indicates the approximately 200,000 people who had mental illness or a problem with substance abuse. Adapted from Mokdad et al.\textsuperscript{12}
Maladaptive Behaviors Are Costly

- Tobacco
- Alcohol
- Obesity
- Illicit drug abuse
- Prescription drug abuse
Partners

Addictions Division
Psychiatry and Behavioral Sciences
Psychology and Neuroscience
Pharmacology and Cancer Biology
Neurobiology
Duke Institute on Brain Sciences
Partners

Cancer Institute
Global Health Institute
Philosophy Department
Sanford School of Public Policy
Business School
Law School
Divinity School
Partners

Durham Public Schools
City of Durham
TROSA
NC Department of Public Health
NIDA, NIAAA, FDA
WHO
Educational Activities

Symposia
Seminar Series
Medical Education
Graduate and Undergraduate Education
Community Outreach
Symposia
Center on Addiction and Behavior Change

Neurobehavioral Bases of Adolescent Drug and Alcohol Use and Abuse: Risks and Solutions
Neurobehavioral Bases of Adolescent Drug and Alcohol Use and Abuse: Risks and Solutions

May 14, 2013, Mary Duke Biddle Trent Semans Center for Medical Education

Linda Spear, Binghamton University
Adolescents and Alcohol: Acute Sensitivity, Enhanced Intake and Later Consequences

Thomas Szigethy, Associate Dean for Undergraduate Students, Duke University
From Research to Practice: Measuring Campus Change Regarding Drinking Culture

Jane Costello, Psychiatry and Behavioral Sciences, Duke University
Adolescent Addiction: How Should We Explain the Shape of the Curve

Cynthia Kuhn, Pharmacology and Cancer Biology, Duke University
Reward vs. Aversion in Adolescent Addiction Vulnerability in Rats

Edward Levin, Psychiatry and Behavioral Sciences, Duke University
Problems of Adolescent Addiction: Where We Are, Where We Need to Go and How to Get There
Determination and Determinism: Integrating Causative Networks to Resolve Addictive Dysfunction

Wednesday, January 22, 2014
Trent Semans Center for Health Education
Great Hall, 1st Floor
Determination and Determinism

Philosophy
Psychology
Psychiatry
Neuroscience
Pharmacology
Law
Public Policy
Determination and Determinism: Integrating Causitive Networks to Resolve Addictive Dysfunction

Jan 22, 2014, Mary Duke Biddle Trent Semans Center for Medical Education

Chandra Sripada, University of Michigan
The Second Hit in Addiction

Loren Parsons, University of California, San Diego
Plasticity of Reward Circuitry and Addiction’s Dark Side

Regina Carelli, University of North Carolina
Neurobiology of Addiction: What Can We Learn About Causative Networks from Animal Models?

Tim Strauman, Dept. of Psychology and Neuroscience, Duke University
Behavior Change in Addiction: Insights from Translational Clinical Science
Joe McClernon, Dept. of Psychiatry and Behavioral Sciences Duke University
From context to cortex to conduct (and back again): understanding the neural mechanisms that underlie environment x behavior interactions

Christina Meade, Dept. of Psychiatry and Behavioral Sciences Duke University
Global Issues in Therapeutics: Bringing people to participate in treatment of drug addiction

Kelly Brownell, Dean Sanford School of Public Policy, Duke University
Public Policy: Harnessing science to create change

Nita Farahany, School of Law. Duke University
Behavioral Sciences in the US Courtroom

Edward Levin, Dept. of Psychiatry and Behavioral Sciences Duke University
Walter Sinnott-Armstrong, Dept. of Philosophy, Duke University
Discussion
The Needle and the Damage Done: Neurotoxic Consequences of Drug Abuse: Dysfunction and Recovery

October 20, 2014
Mary Duke Biddle Trent Semans
Medical Education Building
Grand Hall
The Needle and the Damage Done: Neurotoxic Consequences of Drug Abuse: Dysfunction and Recovery

Oct 20, 2014, Mary Duke Biddle Trent Semans Center for Medical Education

Introduction: Generalized insights from drug abuse neurotoxicity
Edward Levin, Ph.D., Duke University

Modeling fetal alcohol spectrum disorder in zebrafish: From morphology to genes and behavior
Gregory Cole, Ph.D. North Carolina Central University

Heightened sensitivity, neurotoxicity and lasting functional change
Theodore Slotkin, Ph.D., Duke University
Cannabis neurotoxicity in the amygdala and accumbens in adolescence
Hans Breiter, M.D., Northwestern University

Opiate impacts on glial function in adolescence
Staci Bilbo, Ph.D., Duke University

Persistent brain neuroimmune gene induction
and alcoholic neurodegeneration
Fulton Crews, Ph.D., University of North Carolina-Chapel Hill

Ethanol dependence alters GABA-A receptor trafficking:
Strategies to reverse pathology
Leslie Morrow, Ph.D., University of North Carolina-Chapel Hill

Persistent MDMA neurotoxicity in serotonergic systems
Una McCann, M.D. Johns Hopkins University
Cocaine self-administration induces hypo-dopaminergia and tolerance
Sara Jones, Wake Forest University

Importance of resilience in addiction recovery: Clinical Perspectives
Ashwin Patkar, M.D., Duke University

Discussion: Working to achieve recovery from damaged brains
Cynthia Kuhn, Ph.D., Duke University
Spirit in Recovery

Duke University School of Medicine
and
Duke University Divinity School
Moral Judgments by and about Stimulant Users

Duke University Bass Connections and Center on Addiction and Behavior Change
Seminars

Twice a month
Wednesdays at Noon
Rm 001 Medical Sciences Research Bldg
Seminars

Twice a month
Wednesdays at Noon
Rm 001 Medical Sciences Research Bldg

Lunch Provided
Center on Addiction and Behavior Change (CABC) Seminar Series  
Fall Semester, 2014  
Programming Committee: Ed Levin, Tim Strauman, Joe McClernon, Nicole Schramm-Sapyta  
Time: Wednesdays at Noon, unless otherwise indicated; lunch will be served  
Location: MSRB Room 001

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Title/topic</th>
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</thead>
<tbody>
<tr>
<td>THURSDAY, August 14, 2014, Noon Psychiatry Grand Rounds: Duke North Lecture Hall 2002</td>
<td>Ed Levin and Tim Strauman, DIBS Center on Addiction and Behavior Change</td>
<td>An Introduction to the Center on Addiction and Behavior Change</td>
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<tr>
<td>September 10, 2014</td>
<td>Scott Swartzwelder, Ph.D., Department of Psychiatry and VA Medical Center</td>
<td>Dude, Where’s My Car?: Ethanol and the Adolescent Brain</td>
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<tr>
<td>September 24, 2014</td>
<td>Maggie Swartz, Ph.D., Postdoctoral fellow in McClernon Lab</td>
<td>The Role of Relative Reward Valuation in Smoking Cessation Outcome</td>
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<tr>
<td>October 8 or 15</td>
<td>Cynthia Conklin, Ph.D., University of Pittsburgh</td>
<td>Conditioned Smoking Cues and Smoking Cessation Treatment Development</td>
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<tr>
<td>MONDAY, October 20, 2014, 8:30 am to 3:00pm; Trent Semans Center Great Hall</td>
<td>CABC Symposium</td>
<td>The Needle and the Damage Done: Neurotoxic Consequences of Drug Abuse: Dysfunction and Recovery</td>
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<tr>
<td>October 29, 2014</td>
<td>Murray McNeil, Durham VA Medical Center</td>
<td>Clinical Considerations in Substance Use Disorder Treatment</td>
</tr>
<tr>
<td>November 5, 2014</td>
<td>David Overstreet, Ph.D.</td>
<td>The Fawn-Hooded rat: A model for alcoholism with depressive-like behavior</td>
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<tr>
<td>THURSDAY, November 13, 2014, 3-7pm Durham Hilton, 3800 Hillsborough Road</td>
<td>Colloquium Sponsored by Dean's office and DIBS</td>
<td>From Diagnoses to Dimensions: Rethinking Treatment Development in Psychiatric Illness</td>
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<tr>
<td>December 10, 2014</td>
<td>Stephen Magee, Ph.D., Postdoctoral fellow in D'Arcey lab</td>
<td>Reward-circuit activity during cocaine-conditioned place preference</td>
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</tbody>
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Directions to Room 001 MSRB: MSRB is located at 203 Research Drive, next to the Research Drive Parking Garage. Once you enter the Medical Sciences Research Building (MSRB), take the stairs or elevator down 1 level. Room 001 will be straight ahead from the stairs, to your right from the elevator.  
http://maps.duke.edu/map/index.php?id=21#is/key=msrb7m/6562
Student Health
Employee Health
Public Health
Education

Undergraduate
Graduate
Medical
Postgraduate
Continuing Medical Education

Improving Healthful Behavior
Decreasing Health Care Costs
Decreasing Health Care Costs by Improving Healthful Behavior
Thank you for your attention
Thank you for your attention and participation.
Partners
Partners

You
The NC Triangle SfN Chapter invites you to attend a

Science Policy
Town Hall Meeting
With Congressman David Price

Come join us for a discussion of science policy & advocacy

* 4-5 p.m.: Opening remarks by Congressman Price followed by Q & A
* 5-6 p.m.: Chapter Meet & Greet

Tuesday, Sept. 2, 2014
4-6 p.m.

RTP Headquarters
12 Davis Drive
Research Triangle Park, NC 27709

Seating is limited
Please RSVP to
TriangleSfNchapter@gmail.com