

National Institute on Drug Abuse

2012 Summer Research with NIDA for Underrepresented Students



*“Providing students
with valuable drug
abuse research
experiences”*



PROGRAM

Summer Research with the National Institute on Drug Abuse (NIDA) encourages students from groups underrepresented in the sciences to pursue careers in biomedical and behavioral research. Through the program, high school and undergraduate students from underrepresented groups are introduced to the exciting field of substance abuse and addiction research via research placements with some of our most distinguished scientists. Students work with leading investigators for 8-10 weeks during the summer. The experience may include formal courses, participation in meetings, data collection, data analysis, interviewing, laboratory experiments, manuscript preparation, library research, literary reviews, and much more.

Summer Research with NIDA is now in its sixteenth year. Since the program's inception in 1997, more than 700 students have gained valuable experience in substance abuse and addiction research, and more than 200 sites have participated.

ELIGIBILITY

This program emphasizes placing applicants who are from groups underrepresented in the biomedical and behavioral sciences (including African Americans, Hispanics, American Indians/Alaska Natives, and Asian/Pacific Islanders), although all can apply. Applicants must be currently enrolled in high school or college and in good academic standing.

Applicants must be at least 15 years of age (unless a specific project indicates otherwise) and **citizens or permanent residents of the United States (no exceptions)**. **Applicants under the age of 18 can only be placed at research sites within daily-commuting distance from their home.**

Individuals who have participated in the Summer Research with NIDA program for two summers are not eligible to apply.

SCOPE OF SUPPORT

High school students will receive stipends for the summer based on the rate agreed upon with each research site, not to exceed \$8.00 per hour for a maximum stipend of \$3,200 for 10 weeks. Graduating high school seniors will be paid at the high school level. Please note that your research site will set up your pay schedule and method.

Undergraduate students will receive stipends for the summer based on the rate agreed upon with each research site, not to exceed \$10.00 per hour for a maximum stipend of \$4,000 for 10 weeks. Please note that your research site will set up your pay schedule and method.

Important Note about Distant Sites: Only students who are 18 years old and older may be placed at sites greater than daily-commuting distance from their homes. In cases where students are placed at distant sites, investigators can request up to \$2,500 for travel, costs associated with lodging, and per diem expenses for these students. In most cases, investigators/research sites will locate/secure housing for students. If lodging is available at the research site, it is indicated in the site description. On-campus housing is not available for students under 18 years old or for undergraduate students who live within daily commuting distance of their assigned internship site.

APPLICATION PROCEDURES

Please review the opportunities listed in this brochure under the sections for Social Sciences and Life Sciences and read the complete project descriptions at www.drugabuse.gov/pdf/sposummer.pdf. After reviewing the descriptions, indicate on the application form the three sites that best meet your research interests or experience. **A complete application package, including your application, an official transcript, two letters of recommendation, and a brief statement of your research career interest, is due to NIDA by Tuesday, January 17, 2012.** Please refer to the application form for mailing information and other details.

Application Form

The selection of internship recipients will be influenced by completeness of replies, neatness, and legibility.

Personal Information

Last Name:		First Name:		Date of Birth:	
				(mm/dd/yy)	
Current Address: <small>Street</small>		<small>City</small>		<small>State</small> <small>Zip</small>	
Current Phone: ()					
E-Mail:			Alternate E-Mail:		
Permanent Address: <small>Street</small>		<small>City</small>		<small>State</small> <small>Zip</small>	
Permanent Phone: ()					
Ethnicity:		U.S. Citizen or Permanent Resident?		Sex:	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Male <input type="checkbox"/> Female	
If under 18 years old, name of Parent or Guardian:					
Phone:		Email:			

Academic Information

School Presently Attending:					
<input type="checkbox"/> High School		<input type="checkbox"/> College/University		<input type="checkbox"/> Fr. <input type="checkbox"/> So. <input type="checkbox"/> Jr. <input type="checkbox"/> Sr.	
Major:			Minor:		
GPA for Major:			Cumulative GPA:		

Site Selections

Openings for summer research projects appear in two categories: Social Sciences and Life Sciences. Provide your top three choices, by number, in order of preference. Enter the site number only; do not enter the site name or the investigator's name.

[1] _____ [2] _____ [3] _____

Do you have any schedule conflicts with the time period of the selections above? Yes* No

*If yes, please explain (Prolonged absences are not permitted.):

Qualifications

Indicate your qualifications for the area of research you have chosen. Submitting a resume does not substitute for providing a response for this item. (Pay close attention to the **site's description and preferred student attributes**):

This internship requires a full-time (i.e., 40 hours per week) commitment from selected interns for 8 to 10 weeks. Therefore, before you apply, make sure that you will be available to begin the internship on the indicated start date and for the duration of the internship. Your schedule should be free of commitments (e.g., vacations, summer classes, jobs, etc.) that will conflict with your participation. Prolonged absences from the internship are not permitted.

I have read the project descriptions online and I meet the qualifications outlined in them.

Please Sign Here

To receive full consideration, your application must be accompanied by the following items:

1. Transcript.

Please submit an official transcript from your school.

2. Statement of Research Career Interest.

Submit a statement that describes your interest in substance abuse/addiction research, career plans, and educational plans beyond your undergraduate studies. Do not exceed one page.

3. Two Letters of Recommendation.

Submit letters of recommendation from an advisor and/or your teacher(s) or professor(s).

Recommendation letter writers may send their letters to willistd@nida.nih.gov or mail them to the program office (addresses below) by the application deadline.

A complete application package, including your application, a transcript, two letters of recommendation, and a brief statement of your research career interest, is due to NIDA on **Tuesday, January 17, 2012.**

Please note that this is not a postmark deadline; your complete application must arrive at NIDA by January 17, 2012. If necessary, your school can send your transcript separately. All other items must be sent together. To ensure NIDA's timely receipt of your application package, you should mail your package at least 3-4 days in advance of the due date to:

Regular Mail:

Tamara Willis, Ph.D., M.P.H.
Contractor, Research Analyst
Special Populations Office
National Institute on Drug Abuse
6001 Executive Boulevard, Room 3109
MSC 9567
Bethesda, MD 20892-9567
(301) 443-0441 (o)
(301) 480-8179 (f)
willistd@nida.nih.gov

FedEx:

Tamara Willis, Ph.D., M.P.H.
Contractor, Research Analyst
Special Populations Office
National Institute on Drug Abuse
6001 Executive Boulevard, Room 3109
Rockville, MD 20852
(301) 443-0441 (o)



2012 Summer Research with NIDA Site List by State

2012 Summer Research with NIDA Site List by State

State	Site Name	Project Title	Site Number	High School Students	Undergraduate Students	Housing Available
California	Astraea Therapeutics LLC Mountain View, CA	Discovery of Bifunctional NOP/Opioid Ligands for Drug Addiction Therapy	54	•	•	
	Cedars-Sinai Medical Center Los Angeles, CA	Nicotine Addiction: Influence of Prenatal and Adolescent Exposure	49	•	•	
	Charles R. Drew University Los Angeles, CA	Endocrine Effects of Drugs of Abuse	56		•	•
	The Scripps Research Institute La Jolla, CA	Methamphetamine and Adult Hippocampal Neurogenesis	51		•	
	University of California UCI - Irvine, CA	Brain Circuitry, Genes and Smoking	1,32		•	
	University of California UCLA - Los Angeles, CA	HBV Prevention for Homeless At-Risk for HBV/HCV/HIV	12	•	•	•
	University of California UCLA - Los Angeles, CA	Pharmacogenetics of Naltrexone for Methamphetamine Use Disorders	55		•	•
	University of California UCLA - Los Angeles, CA	Phase I Safety Interaction Trial of Ibudilast with Methamphetamine; Varenicline for Methamphetamine Dependence	65		•	•
	University of California UCSF - San Francisco, CA	Maintaining Nonsmoking	21		•	•
Colorado	University of Colorado at Boulder Boulder, CO	Glial Dysregulation of Pain and the Effects of Other Drugs of Abuse	62		•	
Connecticut	Yale University New Haven, CT	Neurotransmitter Transport	41		•	
	Yale University New Haven, CT	Integrated Treatment for Fathers who Perpetrate Domestic Violence	15		•	
District of Columbia	American University Washington, DC	Drug Policy, Incarceration, Community Re-entry, and Race Disparities in HIV/AIDS	25		•	•
Florida	The Scripps Research Institute Jupiter, FL	Epigenetic Regulation of Methamphetamine-Associated Memory	57		•	

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Florida	Torrey Pines Institute for Molecular Studies Port Saint Lucie, FL	Mixed NOP/mu Compounds and the Involvement of Their Receptors in Analgesia	58		•	•
	University of Florida Gainesville, FL	Transformative Approach to Reduce Research Disparities Toward Drug Users	30		•	•
Georgia	Georgia State University Atlanta, GA	Mechanisms Underlying Opposing Neuronal Responses to Brief vs. Prolonged Dopamine	60	•	•	•
Hawaii	Hawaii Pacific University Honolulu, HI	The Development of a Video-Enhanced Drug Prevention Program for Rural Native Hawaiian Youth	10		•	
Kansas	University of Kansas Lawrence, KS	Chemistry of Drug Abuse	50		•	
Louisiana	LSUHSC, New Orleans School of Medicine New Orleans, LA	Cannabinoid Epigenomic and miRNA Mechanisms Impact HIV/SIV Disease Progression	44	•	•	•
	Tulane University Medical School New Orleans, LA	Understanding the Effects of Hallucinogenic Drugs in Zebrafish	42		•	
Maryland	Johns Hopkins University Baltimore, MD	“The Role of Narp in Drug Abuse” - Focus is on Extinction of Drug Craving	48	•	•	
Massachusetts	Boston Medical Center Boston, MA	Primary Care Enrichment Program: Young Adult Follow-up (PEP)	6,37	•	•	
	Massachusetts General Hospital Charlestown, MA	Development of Imaging Agents for the Brain	52		•	
Michigan	University of Michigan Ann Arbor, MI	Epigenetic Regulation of Embryonic Stem Cell Pluripotency	40		•	
	University of Michigan Ann Arbor, MI	A Longitudinal Study of School Dropout and Substance Use	18	•	•	
Minnesota	University of Minnesota St. Paul, MN	Effectiveness of a Web-Enhanced Parenting Program for Military Families	27		•	

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Minnesota	University of Minnesota Minneapolis, MN	A Twin/Family Study of Vulnerability to Substance Abuse	2,33		•	•
Missouri	Washington University School of Medicine St. Louis, MO	Substance Use Histories and Risky Sexual Behaviors among Young Persons	16		•	
New Jersey	UMDNJ-Robert Wood Johnson Medical School New Brunswick, NJ	Development Effects of Prenatal Cocaine Exposure	26	•	•	
	Seton Hall University East Orange, NJ	Biological Determinants of Behavioral Disorders Associated with Substance Abuse and HIV/AIDS	46	•	•	
New York	National Development and Research Institutes, Inc. New York, NY	Stages of Drug Market Disruption and Reformulation In Disaster Cities	13	•	•	
	New York University New York, NY	Syndemic Production Among Emergent Adult Men	8		•	
	State University of New York at Binghamton Vestal, NY	Genome-Wide Protein-DNA Interactions Responding to Chronic Opioid Treatment	63	•	•	•
	University at Buffalo, SUNY Buffalo, NY	Modulation of Dopaminergic VTA Neurons by Urotensin II	53		•	•
	University of Rochester Rochester, NY	Statistical Modeling for the Social and Behavioral Sciences	23		•	•
North Carolina	Duke University Durham, NC	Developing Computer-Based Treatments for Addiction	9		•	•
	Duke University Durham, NC	Neurobehavioral and fMRI Research in HIV Infection and Cocaine Dependence	11		•	
	University of North Carolina at Chapel Hill Chapel Hill, NC	Drug Context-Induced Cocaine Seeking: Influence of Memory Reconsolidation	39		•	
	University of North Carolina Wilmington Wilmington, NC	Drugs of Abuse and Memory Span	31,64		•	
Ohio	The Ohio State University Columbus, OH	Adolescent Involvement in Parental Substance Abuse Treatment: Evaluation of EBFT	7	•	•	•

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Oregon	Oregon Research Institute Eugene, OR	Childhood and Adolescent Predictors of Substance Abuse in Emerging Adulthood	20		•	•
	Oregon Social Learning Center Eugene, OR	Long-Term Effects of a School Readiness Intervention for Foster Children	19		•	
Pennsylvania	Duquesne University Pittsburgh, PA	Computational and Experimental Study of Dopamine and Serotonin Transporter	43	•	•	•
	Temple University Philadelphia, PA	Drug Abuse, Innate Immunity and HIV/HCV	45		•	
	Temple University Philadelphia, PA	Pennsylvania Research Center at Temple University	5,36		•	
	Thomas Jefferson University Philadelphia, PA	Opioid Modulation of Noradrenergic Neurons	38		•	•
	University of Pennsylvania Philadelphia, PA	Treatment Study Using Depot Naltrexone (1/6) Philadelphia Coord/Data Mgmt. Site	66		•	•
Texas	The University of Texas Medical Branch Galveston, TX	Neuropharmacological Mechanisms of Abused Drugs	61	•	•	•
	UT Health Science Center at San Antonio San Antonio, TX	Association of Adolescent Substance Use and the Development of Impulse Control	4,35		•	
	UT Southwestern Medical Center at Dallas Dallas, TX	Citicoline for Bipolar Disorder and Cocaine Dependence	24	•	•	
Vermont	University of Vermont Burlington, VT	Treating Cocaine Abuse: A Behavioral Approach	28		•	•
Virginia	George Mason University Fairfax, VA	Jail-Based Treatment to Reduce Substance Abuse, Recidivism, and Risky Behavior	3,34		•	•
Washington	University of Washington Seattle, WA	Seattle Social Development Project	17		•	
	University of Washington Seattle, WA	Disparities in Drug Use in Emerging Adulthood	22		•	
Wisconsin	University of Wisconsin-Milwaukee Milwaukee, WI	Etiology of HIV Sexual Risk, Substance Use, and Trauma: A Bioecological Systems Model	14		•	•

Social Sciences



Social Sciences

Ideal for, but not limited to, students with majors/interests in psychology, sociology, anthropology, behavioral research, health psychology, social work, psychiatry, public health, and counseling

1

Investigator: Jean Gehricke, Ph.D.
Institution: University of California, Irvine, Irvine, CA
Research Area: Brain Imaging and Smoking
Project Title: Brain Circuitry, Genes and Smoking
Start Date, Program Length: 6/15/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students interested in research careers in medicine, clinical psychology, and drug abuse treatment and prevention.

Project Description:

This research group examines why people use drugs and what can be done to help them. Ongoing studies focus on why individuals with ADHD have higher smoking rates and lower cessation rates compared to the general population. Learn about the effects of nicotine, cigarette smoke, and marijuana on human behavior and brain circuitry, as well as the genetic and environmental risk factors that lead to drug abuse and addiction. Students will be trained in implementing study protocols, data entry, and analysis of brain imaging and clinical data.

Investigator: William G. Iacono, Ph.D.
Institution: University of Minnesota, Minneapolis, MN
Research Area: Substance Use, Behavioral Genetics, Clinical Psychology
Project Title: A Twin/Family Study of Vulnerability to Substance Abuse
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: Yes
Housing Availability Date: 6/1/2012
Student Attributes: Seeking undergraduate students with interests in clinical psychology, psychophysiology, and behavioral genetics. Psychology majors preferred.

Project Description:

The Minnesota Center for Twin and Family Research (MCTFR) seeks to identify environmental and genetic influences on substance abuse and related psychological traits. Focusing on adolescent children and their parents, the MCTFR includes studies of twins, adoptees, and biologically related adolescent siblings. MCTFR participants are involved in a variety of projects including: assessment of psychopathology, psychophysiology and collection of DNA samples in collaboration with the National Institute of Health's Genetics Consortium.

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Investigator:	June Tangney, Ph.D.
Institution:	George Mason University, Fairfax, VA
Research Area:	Reducing Recidivism, HIV Risk, and Substance Abuse
Project Title:	Jail-Based Treatment to Reduce Substance Abuse, Recidivism, and Risky Behavior
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/1/2012
Student Attributes:	Seeking undergraduate students who are independent, critical thinkers with an interest in psychology and criminology. We seek students who enjoy a fast-paced environment requiring the ability to juggle multiple tasks, and who are detail oriented. Students working on the project are required to undergo a criminal background check, given the sensitivity of the data we are working with.

Project Description:

This project applies social-personality theory and research on moral emotions and cognitions to the problems of crime, substance abuse, and HIV risk behavior. The primary aims are to better understand the role of moral emotions (e.g., shame, guilt, and empathy) and moral cognitions (e.g., criminogenic beliefs) in the lives of currently and recently incarcerated offenders, to develop effective culturally-sensitive jail-based interventions targeting these theoretically-specified mechanisms of actions (MOAs) to reduce post-release substance use, HIV risk, and recidivism, and to enhance offenders' reintegration into the community. Next summer, we will: (1) conduct 4 and 7 year post-release interviews for Study 1, a basic research study of moral emotions and cognitions of 508 serious offenders first assessed upon entry to a county jail; (2) complete initial phases of Study 2, a Randomized Clinical Trial (RCT) of the restorative justice-inspired group intervention, focusing on moral emotions and cognitions as MOAs, and conduct 3 month and 1 year post-release assessments. Each year, 7.6 million inmates are released from correctional facilities with most (7 million) released from jails, not prisons. Yet most treatment, and indeed most treatment research, occurs in prisons, not jails. Unlike prisons, typically situated in rural areas, jails are located in the hearts of communities facilitating post-release planning, family re-unification, continuity of care, etc. Although seriously underutilized, our nation's jails offer an ideal window of opportunity for timely intervention with a large high-risk, multi-need population. Our project is designed to help fill this gap, developing theory-based, empirically-supported treatments for jail inmates, capitalizing on cutting edge social psychological research on moral emotions and moral cognitions, and utilizing innovative technologies for assessment to assist treatment providers.

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Investigator: Donald M. Dougherty, B.S., M.S., Ph.D.
Institution: UT Health Science Center at San Antonio, San Antonio, TX
Research Area: Drug Abuse
Project Title: Association of Adolescent Substance Use and the Development of Impulse Control
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students who have an interest in substance use disorder research in adolescents. Previous laboratory or clinical experience is preferred, but not required. Psychology, neuroscience, or statistics majors are preferred, but not required. Applicants must be at least 16 years old by the program start date.

Project Description:

This study will address major gaps in the current knowledge of substance use involvement and impulse control across adolescence. More specifically, we will determine when, how, and to what extent individual differences in impulse control and family histories of substance use disorders contribute to the initiation of substance use, and how subsequent use affects developmental trajectories of impulse control.

Investigator: Steven Belenko, Ph.D.
Institution: Temple University, Philadelphia, PA
Research Area: Substance Abuse and Criminal Justice, HIV Risks, Implementation of Evidence-Based Practice
Project Title: Pennsylvania Research Center at Temple University
Start Date, Program Length: 6/1/2012 - 8 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students majoring in an area of social science. Students should have interests in the following: (1) substance abuse or infectious diseases in criminal justice populations, (2) public policy, (3) drugs and crime, (4) HIV risks among offenders, and (5) program implementation. Applicants should have experience in library research, literature review preparation, and data analysis. Additionally, students should have excellent writing, research, and interviewing skills.

Project Description:

The Pennsylvania Research Center at Temple University is part of the Criminal Justice Drug Abuse Treatment Studies cooperative agreement. The research focuses on developing and testing new strategies to improve the implementation of evidence-based practices for drug-involved inmates and other offenders in three areas: assessment and treatment planning for substance abuse and related problems, referral to medication-assisted treatment, and enhancement and improvement of HIV services. The Center works collaboratively with a number of partners from corrections, probations, treatment, and HIV services agencies, as well as researchers from 8 other research centers around the country. We are using quantitative and qualitative survey, interview, and agency records data to test a number of hypotheses related to improving the implementation of substance abuse and HIV services for offenders.

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Investigator: Jane Liebschutz, M.D., M.P.H.
Institution: Boston Medical Center, Boston, MA
Research Area: Pediatrics and General Internal Medicine
Project Title: Primary Care Enrichment Program: Young Adult Follow-up (PEP)
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students who have an interest in medicine or psychology and a background in biology or social sciences. A high level of attention to detail, flexibility, a strong work ethic, positive attitude, and sense of humor are required. Students with previous experience in clinical research and/or knowledge of research methodology are preferred.

Project Description:

Students will work on two projects at Boston Medical Center. One is the Suboxone Transition to Opioid Study (STOP) in the Department of Medicine. STOP is a randomized controlled trial studying the effect of linking opioid-dependent general hospital patients to opioid replacement therapy with buprenorphine on HIV risk behaviors, including injection drug use. Students will be trained in conducting research interviews, and then would aid in recruitment, assessment, and follow up with these patients. The other study is the Primary Care Enrichment Program: Young Adult Follow-up (PEP) in the Department of Pediatrics, which is a longitudinal study in its 20th year examining the effects of intrauterine substance exposure on development in children, adolescents, and now young adults. The participants have been followed from birth and now are between the ages of 19 and 20. Summer students will have the opportunity to observe assessments of the participants, including neuropsychological testing. Students will attend weekly research meetings of the study investigators for both projects, conduct literature reviews, participate in the preparation of articles or presentations, assist with grant proposals, and conduct medical chart reviews. There is also a summer curriculum for medical students and other undergraduates conducting summer projects including opportunities to observe addiction medicine, internal medicine, and pediatric clinicians.

Investigator:	Natasha Slesnick, Ph.D.
Institution:	The Ohio State University, Columbus, OH
Research Area:	Family Therapy Evaluation With Substance Abusing Mothers and Their Children
Project Title:	Adolescent Involvement in Parental Substance Abuse Treatment: Evaluation of EBFT
Start Date, Program Length:	6/15/2012 - 8 Weeks
Housing Available:	Yes
Housing Availability Date:	6/1/2012
Student Attributes:	Seeking undergraduate students interested in working to improve the life situation of substance abusing mothers and their children. Applicants should have an interest in learning about research design, scientific writing and the day to day operations of a clinical trial. Examples of majors consonant with this work include couple and family therapy, psychology, social work, public health, or sociology.

Project Description:

There are several goals for the student intern in the NIDA Summer Research Program: (1) to be immersed in the entire research experience, including a strong emphasis on research design, clinical issues, and ethics; (2) to participate in weekly journal club meetings with other graduate students, led by the PI. The purpose of the journal club is to discuss students' research ideas and well as current, topical mental health and substance abuse literature, research design, and ethics. The small group interaction of the journal club brings an efficient opportunity for advice and information which all participants can use. Many researchers have studied the effects of parental alcohol and drug use on child outcomes. These studies conclude that parental substance use has the potential to negatively impact children's psychosocial development by depriving them of adequate care and supervision, impeding their socioemotional and cognitive development and/or influencing them to become substance users as well. Considering a bidirectional, systemic model for understanding the development, maintenance and recovery of substance use problems, it follows that the child impacts parents' behaviors as well. Family therapy has consistently shown that involvement of family members in the treatment of substance users is associated with higher levels of engagement and retention in treatment. Many studies report pre to post treatment reductions in substance use and related problems among those receiving couples and family therapy. While randomized clinical trials of family therapy have involved adult identified patients (IPs) in couples therapy and adolescent IPs in family therapy, this study evaluates a family systems intervention involving a child in the treatment plan of the adult substance abuse treatment seeker. Students should be interested in social and behavioral sciences, and will have the opportunity to participate in activities associated with project functioning.

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Investigator:	Perry N. Halkitis, Ph.D.
Institution:	New York University, New York City, NY
Research Area:	Substance Use, HIV, and Gay Adolescent Populations
Project Title:	Syndemic Production Among Emergent Adult Men
Start Date, Program Length:	6/4/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/3/2012
Student Attributes:	Seeking high school and undergraduate students who demonstrate a desire to work in a multi-cultural environment with a commitment to diversity, and who are team-oriented yet able to work independently. Students must be comfortable working with sexual minorities (gay, bisexual, and transgender individuals) as well as substance using and abusing individuals and always demonstrate a high degree of respect when working with study participants and their colleagues on the research team. Students will gain hands on experience conducting research, which includes learning how to administer various psychological measurements, scheduling participant assessments, conducting assessments, coding and data entry as well as other day-to-day responsibilities associated with the project. Additionally, interns will be asked to conduct literature reviews, support senior researchers in preparation of manuscripts. Strong academic writing and research skills (a high level of proficiency conducting literature searches using PsychInfo, Google Scholar, and PubMed) are important characteristics we seek in summer interns. Our research center is a fast-paced dynamic environment and as such we seek individuals to join our team who are self-starters, work well independently and in groups, possess strong analytic skills, and consistently demonstrate an exceedingly high level of attention to detail.

Project Description:

The work of The Center for Health, Identity, Behavior & Prevention Studies (CHIBPS) at New York University, directed by Dr. Perry Halkitis, is nested within the theories of health, counseling, and developmental psychology, and focuses on human development, mental health, and risk taking, including substance use and HIV transmission. Young gay, bisexual, and other men who have sex with men (YMSM) continue to experience health disparities with greater frequency than their heterosexual peers. These disparities include increased incidence of substance abuse, HIV infection, and various mental health burdens. Collectively these mini epidemics have been theorized to operate synergistically forming a syndemic. This study seeks to explore the theory of syndemic production among YMSM. Project 18 (P-18) is a longitudinal investigation exploring the developmental pathways of risk and resiliencies with regard to substance use, sexual risk-taking, and mental health burden in a sample of 600 18 year-old young men who have sex with men. Seven waves of data will be collected over the course of three years. The P-18 team consists of researchers from a variety of disciplines including developmental psychology, counseling psychology, and public health and social work. Together, we bring a multidisciplinary approach to our study.

Investigator:	Mark Zachary Rosenthal, Ph.D.
Institution:	Duke University Medical Center, Durham, NC
Research Area:	Medical Psychology, Substance Addiction and Treatment
Project Title:	Developing Computer-Based Treatments for Addiction
Start Date, Program Length:	5/31/2012 - 8 Weeks
Housing Available:	No
Student Attributes:	Seeking undergraduate students who are majoring in psychology, biology, sociology, or social work and students who may be intending to attend graduate school in those areas. In addition, students with an interest in addiction who want to learn about how to conduct intervention research and how to use computer-based technologies as part of behavioral therapies are encouraged to apply. Students who have been involved in data analysis and research within psychology are encouraged to apply. Applicants should be comfortable in a research setting where they will have one-on-one contact with participants. Students should be able to communicate well with co-workers, complete work independently and on time, and manage multiple tasks. Applicants must be at least 18 years old by the program start date.

Project Description:

The Cognitive Behavioral Research and Treatment Program (CBRTP) within the Department of Psychiatry at Duke University Medical Center is led by Dr. M. Zachary Rosenthal. The mission of Duke CBRTP is to conduct high-quality research for adults with addiction, while providing state-of-the-art clinical training and outpatient clinical services for adults with psychiatric problems. Despite advances in behavioral treatments for addiction, there remains much room for improvement. Within CBRTP, we have developed, manualized, and pilot tested a novel intervention for crack cocaine by creating a virtual reality (VR) platform for cue exposure coupled with cellular phones used to provide extinction reminders (ER) in high-risk situations outside treatment sessions. We are currently conducting a randomized controlled trial that is sponsored by NIDA. 180 adults will either receive six months of individual/group drug counseling (I/GDC) (as a treatment for crack cocaine dependence), or six months of I/GDC plus the novel intervention composed of VR and ER. VR offers great potential for studies of craving in drug abusers and for enhancing current treatments with cue exposure. By immersing participants in multi-sensory, realistic-looking environments, it is possible to provide a range of stimulus cues varying in intensity and relationship to assess risk for relapse. We believe that extinction reminders are ideal for changing behavioral responses to drug-related cues in high-risk contexts. With our novel intervention, between computer-based therapy sessions, it is hoped that participants will develop relapse prevention skills and that these skills will ultimately reduce drug addiction.

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Investigator: Scott Okamoto, M.S.W., Ph.D.
Institution: Hawaii Pacific University, Honolulu, HI
Research Area: Prevention, Health Disparities
Project Title: The Development of a Video-Enhanced Drug Prevention Program for Rural Native Hawaiian Youth
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students majoring in psychology, social work, or another allied discipline. Students with knowledge and/or interest in rural, Native Hawaiian and/or Pacific Islander populations are preferred. Applicants must be at least 18 years old by the program start date.

Project Description:

The primary goal of the project is to develop and pilot test a culturally grounded drug prevention program for rural Native Hawaiian youth on Hawaii Island. Summer Research with NIDA interns will assist in finalizing curricular components of the program, and will assist in the pilot testing of the program. This project is appropriate for students with interests in social/behavioral research in the area of drug prevention and health disparities. Students will collaborate with faculty and staff from multiple universities, and may have opportunities to travel to Hawaii Island for data collection purposes.

Investigator:	Christina S. Meade, Ph.D.
Institution:	Duke University, Durham, NC
Research Area:	HIV/AIDS and Drug Abuse
Project Title:	Neurobehavioral and fMRI Research in HIV Infection and Cocaine Dependence
Start Date, Program Length:	6/4/2012 - 10 Weeks
Housing Available:	No
Student Attributes:	Seeking undergraduate students with a background in psychology, neuroscience, or biomedical engineering who are interested in patient-oriented research. Successful candidates must be highly motivated, reliable, and mature, able to multi-task and learn new tasks quickly, and have strong interpersonal and organizational skills with excellent attention to detail. Most importantly, students must be highly respectful of, and feel comfortable working with, diverse populations. Students should come prepared to work as an active team member in recruiting and enrolling participants, conducting assessments and literature reviews, and entering/managing data. Interns will work closely with the study coordinator and graduate students, but they will also be expected to work independently. Familiarity with SPSS and/or Matlab is preferred, but not required. This position is ideal for students who are interested in pursuing graduate training in clinical psychology or medical school. Applicants must be at least 18 years old by the program start date.

Project Description:

This laboratory conducts patient-oriented research that examines the impact of drug abuse on behavioral and clinical outcomes among individuals living with or at high risk for HIV/AIDS. Summer interns will have the opportunity to work on an ongoing study of > 150 patients that aims to identify neurobehavioral effects of cocaine dependence and HIV infection. Specifically, we are interested in how these diseases impact impulsivity and decision making processes that may contribute to health risk behaviors. In this observational study, we utilize techniques from clinical psychology and neuroscience, including neuropsychological testing and functional neuroimaging. This integration of behavioral and cognitive neuroscience techniques is novel and innovative, and we hope that results will shed light on the mechanisms underlying neuropsychiatric disorders characterized by risk taking and impulsivity. Interns will have the opportunity to learn about other research projects during weekly lab meetings.

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Investigator:	Adeline Nyamathi, ANAP, Ph.D., FAAN
Institution:	University of California, Los Angeles, Los Angeles, CA
Research Area:	HIV/Hepatitis Prevention
Project Title:	HBV Prevention for Homeless At-Risk for HBV/HCV/HIV
Start Date, Program Length:	6/1/2012 - 8 Weeks
Housing Available:	Yes
Housing Availability Date:	6/1/2012
Student Attributes:	Seeking undergraduate students, preferably with a declared major in nursing. Preferred applicants have an interest in vulnerable populations who are currently using or at risk for drug addiction, as well as HIV/AIDS or other closely related infections.

Project Description:

This study was designed to conduct a randomized, experimental, two-group intervention to evaluate the effectiveness of a Nurse Case Managed Program, which includes specialized education and Contingency Management and Tracking (NCCMT), with a Standard Program, including brief education, Contingency Management and Tracking (SCMT) with 500 homeless, young (18-46), SA-using GBM, on completion of the Twinrix HAV/HBV vaccine and, secondarily, on reduction of risk for hepatitis and HIV. This study is innovative in that it will allow us to look at the effect of an enhanced case management and contingency management program versus a standard contingency management program. The proposed study combines optimal strategies to approach, engage and intervene with a hidden and high-risk population to assess the feasibility and efficacy of interventions that may prove beneficial in preventing HBV and HAV infections. We will also assess the relative cost of these programs in terms of completion of the HAV/HBV vaccination series. As use of SAs threatens to intensify homeless persons' risk of exposure to HAV and HBV, particularly among young users who may not yet be HBV-infected, research targeted to engage this group in treatment, until they are suitably protected from HBV, is critical.

Investigator:	Eloise Dunlap, Ph.D.
Institution:	National Development and Research Institutes, Inc., New York, NY
Research Area:	Illicit Drug Markets, Substance Use and HIV Risk, Poverty, Racial Disparities in Health
Project Title:	Stages of Drug Market Disruption and Reformulation In Disaster Cities
Start Date, Program Length:	6/4/2012 - 10 Weeks
Housing Available:	No
Student Attributes:	Seeking high school and undergraduate students who demonstrate interest in learning about drug markets and related social problems such as drug- and sex-related HIV risk, deviance and stigma, and poverty. Students must have knowledge of computers and a good handle on using software programs, especially Microsoft Word for Windows. Students should also have good writing skills and a working knowledge of searching library and Internet resources. They will be expected to perform assorted research-related tasks, including entering and coding data in advanced databases, which will require them to learn to use highly sophisticated programs such as SPSS, FileMaker Pro, Microsoft Excel, and PowerPoint. Students will help to prepare manuscripts for publication and research findings for presentation at scientific meetings. Students also will be required to attend certain NDRI seminars and/or Training Institute courses, where they will learn about drug use, HIV/AIDS, and a number of social problems. The goal of the program is to provide both specific research skills and an overall understanding of research project components and management.

Project Description:

This research laboratory is investigating the impact of natural disasters on illicit drug markets, users and sellers in three cities: New Orleans, LA; and Houston and Galveston, TX. Specifically, we are examining how illicit drug users and sellers were affected by Hurricanes Gustav (New Orleans) and Ike (Houston and Galveston) in 2008. This study builds on a paradigm of drug market disruption and reformulation that we developed in earlier research on the impact of Hurricane Katrina in 2005, when many poor drug users and sellers were evacuated from New Orleans with some settling in Houston. They and many others were evacuated again during the hurricanes of 2008. Displaced drug users and sellers can have a significant impact as drug markets adapt to population shifts. For individuals, the experience of displacement and relocation can force changes in drug use patterns and increase HIV risk if people without resources exchange sex for drugs or share needles, for example. To document these changes, ethnographic project staff in all three cities are conducting in-depth interviews with 175 users and sellers, and 55 focus groups with 275 participants (also users and sellers). In addition, 375 drug using/selling respondents are completing a computer-assisted survey organized around their experiences during and following Hurricanes Gustav and Ike. Our research aims are (1) to analyze the stages of disruption to illicit drug markets in Galveston and Houston in comparison with illicit markets in New Orleans; and (2) to identify and document commonplace practices of risk behaviors for HIV/AIDS (sexual practices; heroin, injection drug, and crack use) as repopulation and restitution of drug markets occur in these cities. The substance use and HIV risk component of this study is similar to other, ongoing studies we are conducting in New York City.

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Investigator: Laura L. Otto-Salaj, Ph.D.
Institution: University of Wisconsin-Milwaukee, Milwaukee, WI
Research Area: Substance Use, HIV Sexual Risk, Trauma History
Project Title: Etiology of HIV Sexual Risk, Substance Use, and Trauma: A Bioecological Systems Model

Start Date, Program Length: 6/1/2012 - 8 Weeks
Housing Available: Yes
Housing Availability Date: 6/1/2012
Student Attributes: Seeking undergraduate students, preferably majoring in the social sciences (particularly social work, psychology, sociology, or nursing). Preferred applicants possess initiative and the ability to work independently, an interest in working in inner-city communities, and the ability to work from a strengths-based perspective. We're especially interested in working with students who see themselves as future applied social science researchers, working in addictions treatment or HIV prevention.

Project Description:

Purpose: 1. To recruit 375 African American women between the ages of 18 and 45 living in urban housing developments; 2. To assess factors pertaining to the levels of Bioecological Systems Theory (BST; Bronfenbrenner, 1995), as they relate to sexual risk, substance use, and trauma/victimization history, at baseline, and again six- and 12-months after baseline; and 3. To examine the relationship of the above variables to occurrence and severity of, as well as resilience to, sexual risk behavior, substance use, and interpersonal violence, using BST as the guiding framework. The findings will provide important information leading to: greater insight into the dynamics and complexity of sexual risk behavior, substance use, and trauma history in low income African American women; more effective interventions that concurrently attend to multiple risk issues in low income African American women; more effective strategies to prevent these issues from occurring; and evaluation of the applicability and validity of BST. Stories to Tell is about African-American women sharing their experiences as they relate to life, health, relationships, and many other issues. It is an opportunity to give voice to issues facing African-American women in Milwaukee. Participants are asked to complete a number of personal and computer-based interviews on issues related to the above topics. Student workers will be trained to recruit participants from the community, and also to administer study measures.

Investigator:	Carla S. Stover, Ph.D.
Institution:	Yale University School of Medicine Child Study Center, New Haven, CT
Research Area:	Substance Abuse, Intimate Partner Violence, and Parenting
Project Title:	Integrated Treatment for Fathers who Perpetrate Domestic Violence
Start Date, Program Length:	6/4/2012 - 9 Weeks
Housing Available:	No
Student Attributes:	Seeking undergraduate students with an interest in clinical interventions, especially with families impacted by domestic violence and substance abuse. The placement and work is within a Forensic Drug Diversion Clinic. Students who are not interested in interacting with a clinical population of fathers and their families would not work well. The ideal students will be responsible, organized, enthusiastic, detail oriented, with strong interpersonal skills. Some basic background or undergraduate course work in abnormal psychology, research methodology, and statistics for behavioral sciences would be helpful. It's important to be comfortable interacting with people from a wide range of ethnic, socio-economic, and mental health backgrounds. Flexibility and ability to roll with whatever comes along is also needed, as our clients are sometimes unpredictable. Applicants must be at least 18 years old by the program start date.

Project Description:

Students will be involved in a study designed to develop and evaluate an intervention for fathers with co-occurring substance abuse and intimate partner violence. They will participate in a randomized controlled trial of Fathers for Change designed to work with fathers of young children (aged 1-6) to reduce aggression and substance abuse and improve parenting. Students will be involved in all aspects of the study from baseline assessments of families, collecting weekly measures from intervention participants, measure scoring, and data entry under the supervision of Dr. Carla Stover and her research assistant. Baseline assessments include interviews with fathers and mothers and play assessments with parents and their young children. Students will be trained in administration of structured research interviews and how to administer family play tasks. Additionally students will have an opportunity to attend weekly case review meetings, to observe therapy sessions with clients, and assist with literature reviews. There is also the possibility of assisting with data analysis and manuscript preparation from data collected from 100 fathers about their parenting and the impact of violence and substance abuse on their children. There is typically a good sized summer intern group at the Yale Child Student Center. The faculty organizes an intern seminar series, where students can hear about the work of a variety of faculty members conducting research and clinical work with a broad range of populations and mental health disorders.

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Investigator: Patricia Cavazos-Rehg, Ph.D.
Institution: Washington University School of Medicine, St. Louis, MO
Research Area: Substance Use Epidemiology
Project Title: Substance Use Histories and Risky Sexual Behaviors among Young Persons
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking high school and undergraduate students who have good communication and analytic skills; researching/writing ability; and a strong interest in psychology, biostatistics, epidemiology, and/or public health. The student must be comfortable working with a fair amount of independence. Experience with statistics, economics, or social sciences through coursework is also helpful. Familiarity with Microsoft Word and Excel is required; knowledge of STATA, SPSS, and/or SAS is a plus.

Project Description:

This research program involves behavioral work requiring students with interests and skills in social sciences. I study the intersection of substance use epidemiology, HIV/AIDS risk behaviors, and public policy. I am currently investigating how relevant state-level policies and programs influence substance use and HIV/AIDS risk behaviors among adolescent populations. To examine these relationships, I work with a team of analysts who utilize existing, nationally representative databases such as the National Longitudinal Survey of Youth 1997 (NLSY97), a complex longitudinal survey composed of nationally representative youths (n=8,984) aged 12-16 when initially surveyed in 1996. The NLSY97 includes queries about many health risk behaviors including substance use and HIV/AIDS-risk behaviors. An other nationally representative survey my research team has utilized is the Youth Risk Behavior Surveillance System (YRBSS), an annual cross-sectional survey of high school youth developed in 1990 to monitor priority health risk behaviors that contribute markedly to the leading causes of death, disability, and social problems among youth and adults in the United States. The student will be able to perform literature reviews, and educate the research team on literature. Additional tasks may include designing charts, graphs, and tables. The student may also attend regular meetings with project leader ship as well as any seminars related to biostatistics, psychiatry, public health. The student may have the opportunity to receive training in basic-level data analyst tasks including data merging and descriptive statistics using a statistical software program.

Investigator:	Karl G. Hill, Ph.D.
Institution:	University of Washington, Seattle, WA
Research Area:	Intergenerational Effects of Alcohol, Tobacco and Other Drug Addiction and Gene-Environment Interplay in Drug Abuse, HIV Sexual Risk Behavior and Comorbid Problems in an Ethnically Diverse Longitudinal Sample Seattle Social Development Project
Project Title:	Seattle Social Development Project
Start Date, Program Length:	6/4/2012 - 10 Weeks
Housing Available:	No
Student Attributes:	Seeking undergraduate students with a strong interest in the topics of (1) the impact of drug use across generations and/or (2) gene-environment interplay in the development of addiction. Also, an interest in health disparities in addiction research, as well as an interest in preventing the development and intergenerational transmission of addiction would be helpful. We are seeking undergraduate students from disciplines such as psychology, social welfare, public health, and allied disciplines. Although sophisticated research and statistics skills are not needed, students should be comfortable with a quantitative social science approach. The interns will work along with team members on project research activities. Additionally, the interns will develop their own research question and examine it over the course of the summer using SSDP/TIP data.

Project Description:

The Social Development Research Group (SDRG) conducts research on factors that influence development, develops and tests the effectiveness of preventive interventions, and works with communities to design and adopt science-based solutions to health and behavior problems. Founded by David Hawkins and Richard Catalano, SDRG is a nationally recognized, interdisciplinary team of researchers working to understand and promote healthy behaviors and positive social development among diverse populations. Summer interns will work on the Seattle Social Development Project (SSDP), a long-term study of the development of positive and problem behaviors among adolescents and young adults. The SSDP study began during the early 1980s with 808 fifth-grade students from 18 elementary schools serving high crime neighborhoods in the Seattle Public School District. The participants are ethnically and socio-economically diverse and have been interviewed regularly since 1985. Interns will have an opportunity to work on two studies within SSDP: (1) The SSDP Intergenerational Project (TIP, Karl G. Hill, PI) and (2) Gene-Environment Interplay in the Development of Addiction and Related Problems (GEDI, Karl G. Hill, PI). TIP is a thirteen-year study of the children of the original SSDP panel. On the TIP study we are examining the effects of current and past parental and grandparental alcohol, tobacco, marijuana and other drug use on child development, and how these effects might occur (the mechanisms). The second study, GEDI, is a multi-site collaboration of three longitudinal studies how genes and environmental influences work together in influencing the development of addiction and related outcomes.

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Investigator:	Marc A. Zimmerman, Ph.D.
Institution:	University of Michigan School of Public Health, Ann Arbor, MI
Research Area:	Substance Use's Influence on Youth Development: Health and Social-Well-Being from Adolescence into Young Adulthood
Project Title:	A Longitudinal Study of School Dropout and Substance Use
Start Date, Program Length:	6/1/2012 - 8 Weeks
Housing Available:	No
Student Attributes:	Seeking undergraduate students who are responsible, diligent, and interested in pursuing a graduate degree in the social sciences (e.g., social, community, or developmental psychology, sociology, and/or social work) or life sciences (e.g., medicine and/or public health). Applicants must have a strong interest in substance use and/or youth development. Some experience in social science research is preferred. Potential applicants must have taken at least one semester of statistics as part of their undergraduate degree, as much of the work will focus on strengthening their quantitative skills.

Project Description:

The Flint Adolescent Study (FAS) is an interview study of 850 ninth graders conducted in collaboration with the Projects for Urban and Regional Affairs and Flint Community Schools. The goal of the study is to explore the protective factors associated with school dropout and alcohol and substance use. Students were sampled from the four main public high schools in Flint, Michigan. The study followed youth for four years beginning in the fall of 1994 and obtained a 90% response rate from Year 1 to Year 4. The Year 1 sample includes 679 African-American youth (80%), 145 white youth (17%) and 26 mixed African-American and white youth (3%). The sample is evenly divided by males and females. The sample reflects the overall student body in the Flint High Schools. In order to study those students most at risk for leaving school before graduation, individuals with grade point averages of 3.0 and below were selected for interviews. Information obtained from the youth were concentrated in several key areas including participation in church, school, and community organizations; social support and influence of family and friends (including mentoring); self-esteem, stress, and psychological well being; delinquent and violent behaviors; alcohol and substance abuse; sex behavior and child bearing; school attitudes and performance; family structure and relationships; driving behavior (beginning in Year 3); attachment style (beginning in Year 3); and racial identity (beginning in Year 3).

Investigator:	Katherine Pears, Ph.D.
Institution:	Oregon Social Learning Center, Eugene, OR
Research Area:	Preventive Intervention with Child Welfare Populations
Project Title:	Long-Term Effects of a School Readiness Intervention for Foster Children
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	No
Student Attributes:	Seeking undergraduate students (upper division) in the fields of psychology, sociology, and education. It would be important for students to have experience with and/or a high level of interest in working with children and their families. Students will have an opportunity to assist with data collection, learning several of our KITS assessment tools (including standardized tests of achievement, structured interviews about substance use knowledge and beliefs, and standardized questionnaires). This work requires a high-level of attention to detail and the ability to learn very structured tasks within a specified timeframe. It also requires patience and the ability to learn and use effective behavior management skills to help the children complete the assessments. All students would be required to complete training in working with human research subjects and in maintaining confidentiality.

Project Description:

The Oregon Social Learning Center (OSLC), located in the Eugene-Springfield, Oregon metropolitan area, is a collaborative, multidisciplinary center dedicated to increasing the scientific understanding of social and psychological processes related to healthy development and family functioning. The Kids in Transition to School (KITS) project is a follow-up study of a randomized efficacy trial of a preventive intervention to enhance psychosocial and academic school readiness in foster children. The original KITS grant followed the children in the project from pre-kindergarten through the end of 2nd grade. The currently funded project will follow the children and families who have participated in the study through the end of the 5th grade, and some of the children into middle school, to examine intervention effects on school functioning (academic and socioemotional competence) and psychosocial functioning (drug-use risk behaviors, drug use, aggressive/antisocial behaviors, deviant peer association, and internalizing behavior). The participating children and families are assessed yearly at the end of the school year. Students would have the opportunity to participate in a large scale research project and to observe how science is used to test effective interventions. They would receive training and experience in conducting the laboratory assessments that comprise the KITS evaluation. These include standardized tests of achievement, structured interviews about substance use knowledge and beliefs, and standardized questionnaires. Students would also have the opportunity to learn about the neurophysiological measures used on the project, including salivary cortisol and electroencephalogram data.

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Investigator: Judy A. Andrews, Ph.D.
Institution: Oregon Research Institute, Eugene, OR
Research Area: Etiology of Substance Use
Project Title: Childhood and Adolescent Predictors of Substance Abuse in Emerging Adulthood

Start Date, Program Length: 6/8/2012 - 8 Weeks
Housing Available: Yes
Housing Availability Date: 6/8/2012
Student Attributes: Seeking undergraduate students who are motivated and interested in pursuing a career in psychology, sociology, biology, or a related field. This internship offers the possibility of working directly with participants as part of a structured assessment, so we are also looking for students who feel comfortable working with others in a professional environment. Applicants should be interested in the etiology of substance use, emerging adulthood, and/or biomarkers associated with substance use and stress. This internship would be a valuable experience for students who are interested in attending graduate school in psychology or a related scientific field.

Project Description:

The overall purpose of the Oregon Youth Substance Use (OYSUP) project is to examine etiological factors across childhood and adolescence that are associated with the development of substance use during this period, and that are potentially predictive of substance use and abuse in emerging adulthood. The original study began with the assessment of 1,075 youth, their parents and teachers, when youth were in first through fifth grade, enabling a multi-source assessment of etiological factors measured at a young age. Annual assessments across eleven years have provided extensive data on over 950 youth; we are continuing annual assessments until youth are one-year post high school, and we have added an intensive assessment done when youths are age 20/21. This assessment consists of a diagnostic interview and a social stress task to obtain cortisol reactivity. The summer intern(s) will actively participate in this project by participating in the social stress task as a role-play "audience" member and by doing literature reviews and working with data analysts to test hypotheses about substance abuse and addiction in the sample as emerging adults. The intern(s) will be mentored by Dr. Erika Westling, but will also meet with the Principal Investigator, Dr. Judy Andrews, on a regular basis. The intern(s) would attend colloquia at the Oregon Research Institute (ORI) on a variety of research topics, would be exposed to researchers at the University of Oregon who collaborate on the OYSUP project, and would generally learn about the work conducted at a behavioral research institute. The intern(s) may also do routine project tasks, such as scanning documents, data checking questionnaires, and filing. The intern(s) will be an active participant in a dynamic and collegial work environment, focused on scientific excellence, and interning here will be a valuable career-building experience.

Investigator:	Sharon M. Hall, Ph.D.
Institution:	University of California, San Francisco, San Francisco, CA
Research Area:	Drug Abuse Treatment, Tobacco Dependence
Project Title:	Maintaining Nonsmoking
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/1/2012
Student Attributes:	Seeking undergraduate students with declared majors in psychology, sociology, or cognitive science. Preferred student research interests include substance use, nicotine dependence, HIV/AIDS, and organizational behavior. Candidates who have completed an introductory statistics course are preferred. Students will participate in a summer research training program with other summer interns from across a wide variety of disciplines at UCSF. Summer interns will be expected to attend summer research seminars and participate in laboratory meetings. Students from underrepresented populations are highly encouraged to apply.

Project Description:

This program offers research opportunities for undergraduate students in the behavioral and social sciences and is aimed at those applying for a Ph.D. program. The goal of the 10-week program is to provide undergraduate students interested in substance abuse and services research with advanced research experience in applied settings. Mentors are UCSF faculty. Summer interns will gain exposure to the application of substance abuse research methods in real world treatment settings. Research projects include trials of efficacy and effectiveness of psychosocial and pharmacologic treatments of substance abuse and dependence, including the study of the pharmacological treatments for co-occurring substance use and psychiatric disorders; studies on the evaluation of clinical interventions for nicotine dependence; HIV/AIDS research, including studies to mitigate health-related disparities among stimulant using men who have sex with men, treatment of nicotine dependence among HIV positive women, and behavioral strategies to improve antiretroviral medical adherence in HIV positive in-and out-of- treatment drug users; and services research in community settings examining outcome-oriented organizational change processes. NIDA summer interns participate in the UCSF Summer Research Training Program (SRTP), which consists of social and academic events with other summer interns at UCSF. The SRTP offers seminars to prepare students to become more competitive candidates for graduate education, including panel discussions about the graduate school application process, life as a graduate student, and career options for researchers, as well as skill-building workshops focusing on abstract writing, oral presentation skills, and how to create effective poster presentations. Students also participate in a weekly journal club where they present a journal article relevant to their summer research project and lead a group discussion about the material. Summer interns develop and conduct a research project using existing data, and present the results at the SRTP. Summer interns are also provided the opportunity to attend GRE preparation classes, if desired.

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Investigator: Kevin P. Haggerty, M.S.W.
Institution: University of Washington, Seattle, WA Social Development Research Group
Research Area: Race Based Disparities in Drug Use in Adolescence and Emerging Adulthood
Project Title: Disparities in Drug Use in Emerging Adulthood
Start Date, Program Length: 6/4/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students interested in race differences in the impact of stress exposure on HPA function and drug use, along with differences in the long-term efficacy of the Parents Who Care intervention. We are seeking an undergraduate student from disciplines such as psychology, social welfare, and possibly public health and allied disciplines. A strong interest in the topic of the grant and an interest in prevention science are important. Although sophisticated research and statistics skills are not needed, students should be comfortable with a quantitative social science approach.

Project Description:

The Social Development Research Group (SDRG) conducts research on factors that influence development, develops and tests the effectiveness of preventive interventions, and works with communities to design and adopt science-based solutions to health and behavior problems. Founded by David Hawkins and Richard Catalano, SDRG is a nationally recognized, interdisciplinary team of researchers working to understand and promote healthy behaviors and positive social development among diverse populations. One of the projects seeking summer interns is the Disparities in Drug Use in Emerging Adulthood Project (Kevin Haggerty, PI), which is a long-term follow up of the Family Connections Project (Kevin Haggerty and Richard Catalano, PIs). In the original study, a universal family-based intervention to prevent drug use and other problem behaviors, Parents who Care, was evaluated. The study compared families of 8th graders in the Seattle school district randomly assigned to one of the intervention or control groups and examined the mediating and moderating processes through which the intervention affected patterns of drug use initiation and escalation. Results of the original study suggested that the programs worked differently for African American and European American families. The Disparities in Drug Use in Emerging Adulthood Project is a 6- and 8-year follow-up that focuses on ethnic differences in program efficacy, risk and protective factors for drug use, and possible biological mediators of the impact of stress on drug use.

Investigator:	Wan Tang, Ph.D.
Institution:	University of Rochester, Rochester, NY
Research Area:	Psychosocial, Statistical Modeling
Project Title:	Statistical Modeling for the Social and Behavioral Sciences
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/1/2012
Student Attributes:	Seeking undergraduate students with majors in mathematics and statistics. Interns will have the opportunity to be involved in all project activities that are of interest. Strong mathematics and computing skills and a desire to learn about advanced statistical modeling and causal analysis are important, as a considerable amount of work will involve learning and applying statistics, especially as it relates to the broad area of psychosocial research, including alcohol and substance use, mind- body interactions, depression and anxiety, suicide, and associated risk and protective factors. Applicants must have good communication and writing skills; one of the outcomes is for students to write and submit a manuscript based on their research to a peer-reviewed journal at the end of their internship. Collaborative work is critical for the project.

Project Description:

This research program focuses on training to prepare college students for entry into and success in their graduate programs in biostatistics and its applications, particularly to the broad area of behavioral and social sciences. Biostatistics plays an integral and increasingly important role in the design and successful execution of biomedical and psychosocial studies, lending credence to medical breakthroughs and health care advances by giving life to, and providing tangible and credible evidence for, innovative scientific ideas. A primary component of the program focuses on secondary data analyses of study data funded by the NIDA Clinical Trials Network (CTN) to answer questions regarding the effectiveness of five-session motivational and skills training HIV/AIDS group interventions designed to reduce sexual risk behaviors for drug-use subjects. Students will work with a multidisciplinary team of investigators, including biostatisticians, psychiatrists, and software developers, and receive training in data analysis and methodology development. The students also will have the opportunity to work closely with other members of the Division of Psychiatric Statistics within the Department of Biostatistics and Computational Biology at the University of Rochester on a wide range of collaborative projects with investigators from Psychiatry and other departments within the UR Medical Center. Please visit www.urmc.rochester.edu/biostat/dps/ for further information.

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Investigator: E. Sherwood Brown, M.D., Ph.D.
Institution: UT Southwestern Medical Center at Dallas, Dallas, TX
Research Area: Bipolar Disorder and Substance Dependence
Project Title: Citicoline for Bipolar Disorder and Cocaine Dependence
Start Date, Program Length: 6/4/2012 - 8 Weeks
Housing Available: No
Student Attributes: Seeking high school and undergraduate students interested in psychology, psychiatry, or medicine. Students with career goals in patient-care fields are preferred.

Project Description:

Our research team examines the treatment of patients with bipolar disorder and substance dependence. Day-to-day activities for this project include phone screening potential participants for our research study; performing diagnostic interviews; reviewing charts; entering and analyzing study data; and the administration of mood, neurocognitive, and substance use assessments. Students in this laboratory will have the opportunity to learn how clinical research is conducted and have hands on experience with study participants.

Investigator:	Kim Blankenship, Ph.D.
Institution:	American University, Washington, DC
Research Area:	Incarceration, Drug Policy, and HIV/AIDS
Project Title:	Drug Policy, Incarceration, Community Re-Entry, and Race Disparities in HIV/AIDS
Start Date, Program Length:	6/4/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/3/2012
Student Attributes:	Seeking undergraduate students who have an interest in developing research skills in the social sciences (e.g., sociology, public health, anthropology, social work). The internship will expose the students to both quantitative (survey) and qualitative (semi-structured interview) methods. In addition, it is critical that the students be interested in the topics of HIV prevention and the criminal justice system. Placement for this experience can be either at American University in Washington, DC or Yale University in New Haven, CT. Campus housing is available at both sites. Data collection is conducted in New Haven. Students who elect to be placed at this site will interact with study participants (formerly incarcerated people). Students must demonstrate maturity and the capacity and desire to work with this vulnerable population. At both sites, students will participate in data analysis. Students with an interest or skills in methods of basic descriptive and/or multivariate statistics would be welcome, but such skills are not necessary. Preferred applicants will have professional experience or academic coursework in the subjects of race, health disparities, social problems, HIV/AIDS, criminal justice system and/or research methods. Interns will be part of a dynamic study team consisting of the Project Manager, research assistant(s), graduate student(s), and the Principal Investigator. Students should have a demonstrated ability to work in a diverse workplace. The research protocol requires that students be able to follow directions closely and work independently.

Project Description:

Drug Policy, Incarceration, Community Re-entry, and Race Disparities in HIV/AIDS is a mixed-methods research project to analyze how movement between the criminal justice system and the community, produced in large part by US drug policies, contributes to race disparities in HIV-related sexual risk among drug offenders in Connecticut. The research also examines whether the neighborhood in which offenders reside contributes to the relationship between this movement and race disparities in HIV risk. Understanding race disparities in US HIV/AIDS rates is critical for controlling the epidemic. While African Americans comprise only 13% of the population, they represent 46% of all AIDS cases reported in the US. The rate of new cases of HIV among Black men is 6 times the rate of new cases in White men (CDC, 2010). In 2008, African-American women had an HIV diagnosis rate 19 times greater than White women, and African-American men had a rate of eight times greater than White men (CDC, 2011). Explanations for the race disparity in HIV/AIDS rates often focus on individual risk behaviors suggesting that the differences occur because Blacks engage in more risk behaviors than Whites. However, African-Americans report less risky drug use and sexual behaviors than their White counterparts. To understand race disparities, then, we need to focus not on individual behaviors per se, but on how the social context shapes the behavioral choices available to people. This research examines what is arguably one of the most pronounced features of the social context: the movement between prison and the community, produced in great part by drug policies, disproportionately impacting Blacks. In the summer of 2012, the project will be conducting the third round of data collection with participants for both quantitative and qualitative data. We will be conducting, recording, and transcribing interviews and administering a structured survey.

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Investigator: Michael Lewis, Ph.D.
Institution: Institute for the Study of Child Development/UMDNJ-RWJMS, New Brunswick, NJ
Research Area: Child Psychology
Project Title: Development Effects of Prenatal Cocaine Exposure
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking high school and undergraduate students interested in gender differences and the effects of toxin exposure. Students with an interest in psychological and related health issues who have a background in psychology are needed.

Project Description:

We have been studying the development of fetuses exposed to cocaine, tobacco, alcohol, and marijuana. This longitudinal study investigates the cognitive social emotional and health status of these children from 4 months to 17 years.

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Investigator: Abigail Gerwitz, Ph.D.
Institution: University of Minnesota, St. Paul, MN
Research Area: Prevention Research
Project Title: Effectiveness of a Web-Enhanced Parenting Program for Military Families
Start Date, Program Length: 6/1/2012 - 8 Weeks
Housing Available: Yes
Housing Availability Date: 6/1/2012
Student Attributes: Seeking undergraduate students majoring in psychology or other social science majors (or those interested in psychology or related social science discipline) are preferred. Applicants should have an interest in prevention/intervention research, enthusiasm and interest for working with military families, ability to work in a large team, initiative, independence, and interest in working with a “people-intensive” research study.

Project Description:

This study is a randomized controlled trial of a prevention program to enhance parenting among military families with a parent deployed to a combat zone (Iraq or Afghanistan). Families with children ages 5-12 are recruited on a rolling basis with a total N=400. Students will be involved in different types of study activities. These may include: tracking online recruitment and conducting assessments in families’ homes, including gathering observational data via video camera, self-report measures, and physiological (heart rate and vagal tone) data, and executive functioning measures. Students may also be involved in intervention activities (helping to coordinate the intervention, mapping out participant locations in order to identify intervention locations, assisting intervention facilitators, observing intervention activities where possible), as well as in recruitment activities, participating in outreach (in-person and online) with National Guard and Reserve groups to inform families about the study. At the end of the summer, students have the opportunity to produce a poster for submission to a national conference, focused on study data, and related to their summer work.

Investigator:	Stephen T. Higgins, Ph.D.
Institution:	University of Vermont, Burlington, VT
Research Area:	Incentives and Health
Project Title:	Treating Cocaine Abuse: A Behavioral Approach
Start Date, Program Length:	6/6/2012 - 8 Weeks
Housing Available:	Yes
Housing Availability Date:	6/6/2012
Student Attributes:	Seeking undergraduate students who have, at a minimum, completed their sophomore year with majors in psychology, medicine, or other behavioral science fields. Some coursework in research design and statistics is preferred, but not required. Interest in pursuing graduate studies in psychology, public health, or other behavioral science disciplines is also preferred. Students should be reliable, detail oriented, and able to work well with others.

Project Description:

The topic of incentives and health is a major research priority at UVM. The strategy our group has been investigating, and that is gaining increasing levels of empirical support for its efficacy in the promotion of healthy behavior, is the systematic use of financial or other material incentives, an area often referred to as contingency management (CM). This project, Treating Cocaine Abuse: A Behavioral Program, is the continuation of a 15-year outpatient program assessing the efficacy of behavioral interventions, including CM, for treating cocaine dependence. Specifically, this study is examining matching incentive value and other treatment parameters to patient baseline characteristics known to moderate treatment response in an effort to strike a balance between cost and efficacy and thereby facilitate cost containment without compromising efficacy, especially among more severe patients. Summer interns will be involved in a number of activities on this project that will include observation and assistance in many aspects of the research process including literature review, data collection, data management and quality assurance, and data analysis. Students will be provided with the training to carry out these responsibilities and will receive ongoing mentoring from senior staff. Students will complete assigned readings of relevant topics and work directly with a mentor on an individual research topic. Additional opportunities to collaborate on related research projects on Incentives and Health will be possible with Dr. Stacey Sigmon and Dr. Sarah Heil. The summer program will end with a formal presentation by the summer intern that is presented to the entire research team.

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Investigator: Christina Hoven, Dr.P.H., M.P.H.
Institution: Columbia University-New York State Psychiatric Institute
Research Area: Child Psychiatric Epidemiology
Project Title: Paternal Criminal Justice Involvement and Substance Use in Children & Adolescents
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students, preferably juniors or seniors. While all majors will be considered, students with majors in psychology, public health, social work, sociology, anthropology, or other related social sciences are strongly encouraged to apply. Fluency in Spanish and interest in urban communities is desirable.

Project Description:

The main objective of the research being conducted by researchers in the Department of Child Psychiatry at Columbia University, in affiliation with the New York State Psychiatric Institute, is to obtain a better understanding of how a father's involvement with the criminal justice system (CJS) may influence the general and mental health of his children. More specifically, researchers are investigating the impact, over time, of paternal involvement with the CJS on children's substance use/abuse/dependence and psychopathology and the development of risk behaviors, possibly leading to the child's involvement with juvenile justice or criminal justice systems. The summer researchers will be included in the research team, performing a variety of assignments ranging from more organizational components indispensable to large research projects, to data entry, review of interviews, and participation in fieldwork (tracking of participants, control recruitment, etc.). This program offers excellent experience for students interested in pursuing graduate-level work in psychology, public health, related medical fields, or sociology.

Investigator:	Linda B. Cottler, Ph.D., MPH
Institution:	University of Florida, Gainesville, FL
Research Area:	Community-Based Participatory Research, Substance Abuse, Nosology, HIV
Project Title:	Transformative Approach to Reduce Research Disparities Toward Drug Users
Start Date, Program Length:	6/1/2012 - 8 Weeks
Housing Available:	Yes
Housing Availability Date:	6/1/2012
Student Attributes:	Seeking high school students (seniors) and undergraduate students with an interest in behavioral research, community engaged research, and ethics, or specific interest in drug use stigma and/or the inclusion of underrepresented minorities in research. Students with a declared major in anthropology, psychology, public health, sociology, social work, nursing, or other related fields are preferred. Summer students must be dedicated, reliable, curious, independent, and solution-oriented, have good attention to detail, be able to work in a demanding office environment and desire work in the community. Applicants must be 18 years old by the start of the program.

Project Description:

The Department of Epidemiology at the University of Florida in Gainesville, FL has opportunities available for summer scholars interested in a challenging, yet rewarding summer experience. Students will work on an ongoing NIDA research study entitled “Transformative Approach to Reduce Research Disparities Toward Drug Users.” This randomized-controlled trial is fielded through HealthStreet, our community outreach initiative that is part of the Clinical and Translational Science Award (CTSA) Institute at the University of Florida. It is testing the effectiveness of an Ambassador model versus an extension of the CTSA street-based outreach model, to recruit underrepresented populations with drug use histories in appropriate research and retain them in that research. Summer scholars will be trained on the outreach protocols utilized at HealthStreet, will shadow Community Health Workers (CHWs) in the community, will screen potential study participants, and will link them to open UF studies using our newly developed Web-based HealthStreet database. Additionally, students will gain experience and appreciation for the conduct of research by conducting literature reviews, participating in faculty/staff meetings, assisting in data collection with structured diagnostic interviews, participating in data analysis, and disseminating findings. These activities, as defined, will serve as an introduction to drug abuse research.

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Investigator:	Mark Galizio, Ph.D.
Institution:	University of North Carolina, Wilmington, Wilmington, NC
Research Area:	Psychopharmacology
Project Title:	Drugs of Abuse and Memory Span
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/1/2012
Student Attributes:	Seeking students high school and undergraduate students with interests in psychology or neuroscience who are interested in working with laboratory animals to study the effects of drugs on behavior and cognition.

Project Description:

Drugs of abuse are associated with a variety of cognitive deficits including disruption of learning and memory. Animal models are needed to better assess the cognitive risks of use and abuse of psychoactive drugs. Research in this laboratory is focusing on a recently developed test that assesses rats' ability to remember an increasing number of odors within a single experimental session: the olfactory span task. This procedure offers the novel potential to analyze the effects of drugs as a function of memory load. Ongoing experiments are determining the acute effects of drugs of abuse and other selected compounds that are thought to interfere with memory using the span procedure including benzodiazepines (chlordiazepoxide, midazolam), NMDA antagonists (dizocilpine, ketamine), opiates (morphine), psychostimulants (methylphenidate, methamphetamine, MDMA), and an anticholinergic hallucinogen (scopolamine). An additional concern is that some drugs such as MDMA and methamphetamine might produce long term memory impairment after users go on a binge of heavy use. Additional experiments in this laboratory are examining residual effects on memory span after exposure to neurotoxic doses of MDMA and methamphetamine. Students are engaged in every aspect of this research program research and this summer research experience will provide opportunities for students to develop research skills and increase their understanding of psychopharmacology and neuroscience. This will include learning to train and perform behavioral tests with rats using MED associates software, data collection and analysis, and readings/discussion about drug abuse and psychopharmacology in lab meetings.

Life Sciences



Life Sciences

Ideal for, but not limited to, students with majors/interests in biology (molecular/cellular), neurobiology, psychobiology, neuroscience, behavioral neuroscience, pharmacology, chemistry, biochemistry, and brain imaging

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Investigator: Jean Gehricke, Ph.D.
Institution: University of California, Irvine, Irvine, CA
Research Area: Brain Imaging and Smoking
Project Title: Brain Circuitry, Genes and Smoking
Start Date, Program Length: 6/15/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students interested in research careers in medicine, clinical psychology, and drug abuse treatment and prevention.

Project Description:

This research group examines why people use drugs and what can be done to help them. Ongoing studies focus on why individuals with ADHD have higher smoking rates and lower cessation rates compared to the general population. Learn about the effects of nicotine, cigarette smoke, and marijuana on human behavior and brain circuitry, as well as the genetic and environmental risk factors that lead to drug abuse and addiction. Students will be trained in implementing study protocols, data entry, and analysis of brain imaging and clinical data.

Investigator: William G. Iacono, Ph.D.
Institution: University of Minnesota, Minneapolis, MN
Research Area: Substance Use, Behavioral Genetics, Clinical Psychology
Project Title: A Twin/Family Study of Vulnerability to Substance Abuse
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: Yes
Housing Availability Date: 6/1/2012
Student Attributes: Seeking undergraduate students with interests in clinical psychology, psychophysiology, and behavioral genetics. Psychology majors preferred.

Project Description:

The Minnesota Center for Twin and Family Research (MCTFR) seeks to identify environmental and genetic influences on substance abuse and related psychological traits. Focusing on adolescent children and their parents, the MCTFR includes studies of twins, adoptees, and biologically related adolescent siblings. MCTFR participants are involved in a variety of projects including: assessment of psychopathology, psychophysiology and collection of DNA samples in collaboration with the National Institute of Health's Genetics Consortium.

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Investigator: June Tangney, Ph.D.
Institution: George Mason University, Fairfax, VA
Research Area: Reducing Recidivism, HIV Risk, and Substance Abuse
Project Title: Jail-Based Treatment to Reduce Substance Abuse, Recidivism, and Risky Behavior

Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: Yes
Housing Availability Date: 6/1/2012
Student Attributes: Seeking undergraduate students who are independent, critical thinkers with an interest in psychology and criminology. We seek students who enjoy a fast-paced environment requiring the ability to juggle multiple tasks, and who are detail oriented. Students working on the project are required to undergo a criminal background check, given the sensitivity of the data we are working with.

Project Description:

This project applies social-personality theory and research on moral emotions and cognitions to the problems of crime, substance abuse, and HIV risk behavior. The primary aims are to better understand the role of moral emotions (e.g., shame, guilt, and empathy) and moral cognitions (e.g., criminogenic beliefs) in the lives of currently and recently incarcerated offenders, to develop effective culturally-sensitive jail-based interventions targeting these theoretically-specified mechanisms of actions (MOAs) to reduce post-release substance use, HIV risk, and recidivism, and to enhance offenders' reintegration into the community. Next summer, we will: (1) conduct 4 and 7 year post-release interviews for Study 1, a basic research study of moral emotions and cognitions of 508 serious offenders first assessed upon entry to a county jail; (2) complete initial phases of Study 2, a Randomized Clinical Trial (RCT) of the restorative justice-inspired group intervention, focusing on moral emotions and cognitions as MOAs, and conduct 3 month and 1 year post-release assessments. Each year, 7.6 million inmates are released from correctional facilities with most (7 million) released from jails, not prisons. Yet most treatment, and indeed most treatment research, occurs in prisons, not jails. Unlike prisons, typically situated in rural areas, jails are located in the hearts of communities facilitating post-release planning, family re-unification, continuity of care, etc. Although seriously underutilized, our nation's jails offer an ideal window of opportunity for timely intervention with a large high-risk, multi-need population. Our project is designed to help fill this gap, developing theory-based, empirically-supported treatments for jail inmates, capitalizing on cutting edge social psychological research on moral emotions and moral cognitions, and utilizing innovative technologies for assessment to assist treatment providers.

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Investigator: Donald M. Dougherty, B.S., M.S., Ph.D.
Institution: UT Health Science Center at San Antonio, San Antonio, TX
Research Area: Drug Abuse
Project Title: Association of Adolescent Substance Use and the Development of Impulse Control
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students who have an interest in substance use disorder research in adolescents. Previous laboratory or clinical experience is preferred, but not required. Psychology, neuroscience, or statistics majors are preferred, but not required. Applicants must be at least 16 years old by the program start date.

Project Description:

This study will address major gaps in the current knowledge of substance use involvement and impulse control across adolescence. More specifically, we will determine when, how, and to what extent individual differences in impulse control and family histories of substance use disorders contribute to the initiation of substance use, and how subsequent use affects developmental trajectories of impulse control.

Investigator: Steven Belenko, Ph.D.
Institution: Temple University, Philadelphia, PA
Research Area: Substance Abuse and Criminal Justice, HIV Risks, Implementation of Evidence-Based Practice
Project Title: Pennsylvania Research Center at Temple University
Start Date, Program Length: 6/1/2012 - 8 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students majoring in an area of social science. Students should have interests in the following: (1) substance abuse or infectious diseases in criminal justice populations, (2) public policy, (3) drugs and crime, (4) HIV risks among offenders, and (5) program implementation. Applicants should have experience in library research, literature review preparation, and data analysis. Additionally, students should have excellent writing, research, and interviewing skills.

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Project Description:

The Pennsylvania Research Center at Temple University is part of the Criminal Justice Drug Abuse Treatment Studies cooperative agreement. The research focuses on developing and testing new strategies to improve the implementation of evidence-based practices for drug-involved inmates and other offenders in three areas: assessment and treatment planning for substance abuse and related problems, referral to medication-assisted treatment, and enhancement and improvement of HIV services. The Center works collaboratively with a number of partners from corrections, probations, treatment, and HIV services agencies, as well as researchers from 8 other research centers around the country. We are using quantitative and qualitative survey, interview, and agency records data to test a number of hypotheses related to improving the implementation of substance abuse and HIV services for offenders.

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Investigator: Jane Liebschutz, M.D., M.P.H.
Institution: Boston Medical Center, Boston, MA
Research Area: Pediatrics and General Internal Medicine
Project Title: Primary Care Enrichment Program: Young Adult Follow-up (PEP)
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students who have an interest in medicine or psychology and a background in biology or social sciences. A high level of attention to detail, flexibility, a strong work ethic, positive attitude, and sense of humor are required. Students with previous experience in clinical research and/or knowledge of research methodology are preferred.

Project Description:

Students will work on two projects at Boston Medical Center. One is the Suboxone Transition to Opioid Study (STOP) in the Department of Medicine. STOP is a randomized controlled trial studying the effect of linking opioid-dependent general hospital patients to opioid replacement therapy with buprenorphine on HIV risk behaviors, including injection drug use. Students will be trained in conducting research interviews, and then would aid in recruitment, assessment, and follow up with these patients. The other study is the Primary Care Enrichment Program: Young Adult Follow-up (PEP) in the Department of Pediatrics, which is a longitudinal study in its 20th year examining the effects of intrauterine substance exposure on development in children, adolescents, and now young adults. The participants have been followed from birth and now are between the ages of 19 and 20. Summer students will have the opportunity to observe assessments of the participants, including neuropsychological testing. Students will attend weekly research meetings of the study investigators for both projects, conduct literature reviews, participate in the preparation of articles or presentations, assist with grant proposals, and conduct medical chart reviews. There is also a summer curriculum for medical students and other undergraduates conducting summer projects including opportunities to observe addiction medicine, internal medicine, and pediatric clinicians.

Investigator:	Elisabeth Van Bockstaele, Ph.D.
Institution:	Thomas Jefferson University, Philadelphia, PA
Research Area:	Neuroscience
Project Title:	Opioid Modulation of Noradrenergic Neurons
Start Date, Program Length:	6/1/2012 - 8 Weeks
Housing Available:	Yes
Housing Availability:	6/1/2012
Student Attributes:	Seeking undergraduate students who are eager to learn neuroanatomical techniques, including the collection and processing of tissues for immunofluorescence and immunoelectron microscopy studies. These techniques will allow the student to study interactions between stress and drug abuse, specifically opiate addiction.

Project Description:

The laboratory is located at Thomas Jefferson University in the heart of center city Philadelphia, PA. This location is home to the medical, graduate, pharmacy, and health professions colleges, as well as Thomas Jefferson University Hospital. Our research laboratory is located in the Jefferson Hospital for Neurosciences and is part of the Farber Institute for Neuroscience dedicated to the study and understanding of neurological disorders. Within our laboratory, numerous ongoing basic research projects address questions related to stress and drug abuse. The student selected for this research opportunity will have the chance to study interactions between stress and endogenous opioid systems. Our laboratory uses a rat model to characterize the points at which these systems interact, since stress has been identified as a risk factor for drug abuse and, conversely, abuse of opiates many predispose individuals to stress-related psychiatric disorders. Therefore basic research techniques, including immunofluorescence and electron microscopy, are used to pinpoint specific sites at which these systems interact in the brainstem nucleus locus coeruleus. This bilateral nucleus is the major source of the neurotransmitter norepinephrine which has many roles in the brain including the maintenance of attention, emotion, wakefulness, learning, and anxiety. The norepinephrine system is sensitive to both stress and drug abuse, therefore it is important to identify the points at which the stress and endogenous opiate systems interact to affect behavior.

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Investigator: Rita Fuchs Lokensgard, Ph.D.
Institution: University of North Carolina at Chapel Hill, Chapel Hill, NC
Research Area: Neurobiology of cocaine addiction
Project Title: Drug Context-Induced Cocaine Seeking: Influence of Memory Reconsolidation
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate psychology, biology, or neuroscience majors with prior course work in biopsychology, or behavioral neuroscience. Knowledge of research methods is desired. Previous laboratory work with rodents is strongly preferred. Applicants must be at least 18 years old by the program start date.

Project Description:

Exposure to drug-associated environments (e.g., drug-taking neighborhood) and explicit drug-associated stimuli (e.g., paraphernalia) elicits craving and relapse to drug seeking. Research in our laboratory focuses on studying the neural mechanisms by which a drug-associated environment elicits motivation to seek cocaine and impulsive decision making. Research in my lab utilizes behavioral, molecular, neuroanatomical, and histological techniques, as well as neuropharmacological manipulations. This research opportunity will be ideal for students in life science who are interested in the relationship between brain and behavior.

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Investigator: Tom Kerppola, Ph.D.
Institution: University of Michigan, Ann Arbor, MI
Research Area: Transcription Regulation in Development and Disease
Project Title: Epigenetic Regulation of Embryonic Stem Cell Pluripotency
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: Yes
Housing Availability: 6/1/2012
Student Attributes: Seeking high school and undergraduate with enthusiasm for laboratory research and interest in working with experimental animals.

Project Description:

Research areas with summer projects in the Kerppola laboratory: (1) visualization of protein interactions in living cells, (2) genetic analysis of epigenetic regulators of embryonic stem cell pluripotency, and (3) development of drug molecules for treatment of rare cancers.

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Investigator:	Gary Rudnick, Ph.D.
Institution:	Yale University, New Haven, CT
Research Area:	Neurotransmitter Transport
Project Title:	Neurotransmitter Transport
Start Date, Program Length:	12/1/2012 - 10 Weeks
Housing Available:	No
Student Attributes:	Seeking undergraduate students with some background in biochemistry and molecular biology, either from coursework or research experience. Techniques in the lab include mutagenesis, preparation of membrane and purified protein samples, and biochemical assays of transport and binding.

Project Description:

Our research concerns the proteins involved in neurotransmitter recycling responsible for the reuptake of serotonin and other biogenic amines. We are interested in how the structure of these proteins determines their ability to couple ion gradients to substrate transport. The transporters are responsible for the process that terminates the action of serotonin, norepinephrine, and dopamine released into the synaptic cleft. They are targets for antidepressant drugs like fluoxetine (Prozac) and for stimulants such as cocaine and amphetamines, such as MDMA (ecstasy). Current efforts in the laboratory include the identification of the pathway by which serotonin passes through the membrane, including residues that are involved in substrate and inhibitor binding and those involved in conformational changes that accompany transport. We are also studying the regulation of serotonin transporter activity by phosphorylation, and we are investigating bacterial homologues of the neurotransmitter transporter family for insights into the structure of these proteins.

Investigator:	Allan V. Kalueff, Ph.D.
Institution:	Tulane University Medical School, New Orleans, LA
Research Area:	Neuropsychopharmacology, Biological Psychiatry
Project Title:	Understanding the Effects of Hallucinogenic Drugs in Zebrafish
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	No
Student Attributes:	Seeking high school and undergraduate students who are smart, energetic, and dedicated, with a strong interest in neuroscience, neuropharmacology and/or biological psychiatry. Prior research experience is not required. However, the ability to interact with other lab members, troubleshoot, and multitask is necessary. Students are expected to be familiar with the lab's recent publications (www.kalueflab.com) on the topic of this project.

Project Description:

Our laboratory uses adult zebrafish (*Danio rerio*) models to obtain a better understanding of the effects of various hallucinogenic drugs on behavior and brain physiology. Our current research includes testing behavioral, physiological (endocrine), and genomic responses of zebrafish to lysergic acid diethylamide (LSD), mescaline, MDMA (Ecstasy), salvinorin A, PCP, psilocybin and several other compounds, and also examining their effects on zebrafish's emotional and motor behavior, perception, and cognitive abilities. These studies contribute to a more comprehensive understanding of the mechanisms of action and multifaceted behavioral consequences of hallucinogenic drugs, and may result in development of novel sensitive screens for psychotropic agents. These findings can also foster translational research, expediting the development of more effective ways to treat and prevent drug abuse.

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Investigator:	Jeffry Madura, Ph.D.
Institution:	Duquesne University, Pittsburgh, PA
Research Area:	Computational Biophysics
Project Title:	Computational and Experimental Study of Dopamine and Serotonin Transporter
Start Date, Program Length:	5/21/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability:	6/1/2012
Student Attributes:	Seeking high school and undergraduate students who are interested in drug design. No specific computational skills are necessary, just a willingness to learn about the collaboration between molecular modeling and experimental methods.

Project Description:

A unique ten-week joint computational and experimental research project is proposed to study inhibitors of monoamine transporters. The summer research experience will be comprised of a computational workshop in which the student will be trained to use state-of-the-art software and hardware to perform virtual screening drug design computations. The remaining nine weeks will find the student in an experimental research laboratory working on a research project that incorporates computations. For example a student may work in a medicinal chemist's laboratory synthesizing new compounds that have been suggested based on docking calculations that they had performed. Another potential project is to create a pharmacophore and use it to screen a large database for new inhibitors of monoamine transporters. Since the summer research project will have theoretical and experimental components, the student will be expected to develop their student-professor communication skills with both the experimental and theoretical mentors.

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Investigator:	Patricia E. Molina, M.D., Ph.D.
Institution:	LSUHSC, New Orleans School of Medicine, New Orleans, LA
Research Area:	HIV/AIDS Cannabinoids Epigenetics
Project Title:	Cannabinoid Epigenomic and miRNA Mechanisms Impact HIV/SIV Disease Progression
Start Date, Program Length:	6/1/2012 - 8 Weeks
Housing Available:	No
Student Attributes:	Seeking undergraduate students who are interested in basic science research or who are interested in pursuing medical school. Applicants should be independent, self-motivated, and reliable. Preferred candidates will have previous research experience in a laboratory setting. Knowledge of cell-based assay, biochemical assays, and molecular biology is a plus. Applicants must be at least 16 years old by the program start date.

Project Description:

This laboratory focuses on the impact of alcohol and drug abuse (cannabinoids) on the behavioral, metabolic, and immune consequences of HIV/AIDS. Current work is focused on understanding the epigenetic signatures that are associated with chronic cannabinoid administration in the brain, gut, and immune system of SIV-infected macaques. Most of the work related to this project will be limited to analysis and not to hands on animal work. Significant amount of the work will be on data mining to identify specific mechanisms that need to be tested and verified with cell based assays.

Investigator:	Wenzhe Ho, M.D., Ph.D.
Institution:	Temple University, Philadelphia, PA
Research Area:	Drug Abuse and Immunology of HIV/HCV Infection
Project Title:	Drug Abuse, Innate Immunity and HIV/HCV
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	No
Student Attributes:	Seeking undergraduate students, preferably majoring in biology, who are especially interested in research (with or without experience, although research experience is preferred). Students should be able to pay attention to detail, listen well, follow instructions, get along with others, and should have the ability to organize/present data. Students should also have excellent communication skills and be able to read and write in English.

Project Description:

This research laboratory is using multidisciplinary approaches to understand virus-host interactions and the basic mechanisms that control virus replication, as well as strategies for enhancing the innate immunity against viral infections, particularly human immunodeficiency virus (HIV) and hepatitis C virus (HCV, a major etiology of liver disease). Working closely with drug abusing populations in the regions of Philadelphia and China, the Ho laboratory is also investigating whether drugs of abuse such as heroin and methamphetamine have a cofactor role in promoting HIV and/or HCV diseases. Since HIV and/or HCV infection are frequently found in injection drug users (IDUs) and these two pathogens are likely to be responsible for the highest infectious disease morbidity and mortality rates among IDUs, Dr. Ho's laboratory is investigating the role of drug abuse in the immunopathogenesis of HIV and/or HCV diseases. Dr. Ho and his research team use in vitro, ex vivo and in vivo models to directly address the question of whether opioids and methamphetamine have the ability to suppress host immune responses and promote HIV and/or HCV diseases. In collaboration with the investigators from the University of Pennsylvania and Wuhan CDC (China), studies in the Ho laboratory have shown that drugs of abuse such as opioids and methamphetamine impair antiviral functions of a host's innate immune cells (natural killer cells and CD56+ natural T cells) and facilitate HIV or HCV infection/replication. Current research in the Ho laboratory is investigating the specific effects of opioids such as heroin and morphine on type 1/III IFN-mediated intracellular immunity that control HIV or HCV infection and replication. In addition, another focus of Dr. Ho's research is to determine whether opioids and methamphetamine and/or HIV impair the innate immunity in human neurons and compromise the efficacy of HIV treatment (HAART).

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Investigator:	Sulie L. Chang, Ph.D.
Institution:	Seton Hall University, South Orange, NJ
Research Area:	NeuroAIDS and Substances of Abuse
Project Title:	Biological Determinants of Behavioral Disorders Associated with Substance Abuse and HIV/AIDS
Start Date, Program Length:	6/1/2012 - 8 Weeks
Housing Available:	No
Student Attributes:	Seeking undergraduate students who have a declared major in biology, chemistry, biochemistry, or related majors with a GPA above 3.1. Applicants should have basic biology, chemistry, and biochemistry laboratory skills. Students should also have very good IT skills and good communication skills. Students must be interested in drug abuse research and should be interested in conducting basic research in the biomedical field.

Project Description:

There is ample evidence that addictive substance can cause dysregulation of the neuroimmune axis by altering neuronal function, immunity, and neuroimmune signaling pathways. Prolonged exposure to addictive substances including morphine, nicotine, methamphetamine, and alcohol has been suggested as possibly leading to neuroinflammation that may be involved in neurocognitive impairment. Prior research suggests that the persistent presence of HIV-1 viral protein noted in HIV-1 transgenic rats mimics the persistent presence of HIV proteins in HIV patients receiving Highly Active Antiretroviral Therapy (HAART). Researchers in this laboratory have reported that HIV-1 rats exhibited deficits in learning and memory as evidenced by their performance on the Morris Water Maze navigation task. These deficits in learning and memory have been similarly observed in patients with HIV infection. We have hypothesized that exposure to addictive substances worsens the learning and memory deficit of HIV-1Tg rats, and the alteration of the neuroinflammatory profile is one of the molecular mechanisms underlying this additional effect of addictive substances on the neurocognitive impairment of this animal. To substantiate our hypothesis, we will conduct studies to identify the effects of prolonged exposure to morphine, nicotine, methamphetamine, or alcohol on the HPA axis, immunity, and cognitive behavior in the HIV-1Tg rat. We will then investigate the mechanisms underlying these substance-induced effects on neuroinflammation and cognitive behavior in the animal model. Upon completion, our studies will provide valuable information regarding addictive substance-induced neuroimmune modulation from the molecular to the behavioral levels.

Investigator: Congwu Du, Ph.D.
Institution: Brookhaven National Laboratory, Stony Brook, NY
Research Area: Neuroimaging
Project Title: Brain Optical Imaging to Separate Vascular from Neuronal Effects of Cocaine
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students who are highly motivated; a background in imaging or animal study is preferred.

Project Description:

Cocaine affects both cerebral blood vessels and neurons in the brain. Imaging technologies such as fMRI, PET, optical microscopy and near-infrared imaging have been used to assess the acute and chronic effects of cocaine. However, the mechanisms underlying cocaine's neurotoxic effects are still not fully understood, partially due to the technical limitations of current techniques to differentiate vascular from neuronal effects at sufficiently high temporal and spatial resolution. To solve this problem, we have developed a multimodal imaging platform by combining multi-wavelength laser speckle imaging (MW-LSI) and optical coherence tomography (OCT). While MW-LSI provides a large FOV, high spatiotemporal resolution, and simultaneous mapping of hemodynamic, metabolic and cellular changes in responses to cocaine, OCT is capable of quantifying directional 3D CBF vascular network. This new imaging tool permits us to distinguish the vascular versus the neuronal responses of the brain in response to a pharmacological challenge, thus complimenting other neuroimaging modalities (e.g., PET, fMRI) for investigating brain functional changes such as those induced by drug of abuse.

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Investigator:	Irving Reti, MBBS
Institution:	Johns Hopkins University, Baltimore, MD
Research Area:	“The Role of Narp in Drug Abuse” - Focus is on Extinction of Drug Craving
Project Title:	“The Role of Narp in Drug Abuse” - Focus is on Extinction of Drug Craving
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	No
Student Attributes:	Seeking high school and undergraduate students who are smart, energetic, and dedicated, with a strong interest in neuroscience, neuropharmacology and/or biological psychiatry. Prior research experience is not required. However, the ability to interact with other lab members, troubleshoot, and multitask is necessary. Students are expected to be familiar with the lab’s recent publications (www.kalueflab.com) on the topic of this project.

Project Description:

Evidence linking neuronal immediate early genes to enduring forms of neuronal plasticity has heightened interest in their role in mediating behavioral alterations induced by drugs of abuse and other forms of brain stimulation. As these genes are rapidly induced by neuronal stimulation, they represent a mechanism by which drug administration could elicit long term adaptations in neuronal function that underlie their reinforcing properties. We have focused on one of these immediate early genes, Narp, which clusters AMPA receptors and is expressed selectively in limbic brain regions regulating behavior. A series of studies we have conducted suggest Narp signaling pathways may represent a potential therapeutic target for drug addiction and possibly other motivated behaviors. For example, we have found that Narp knockout mice are deficient in extinction of drug craving. To learn more about molecular mechanisms and circuitry underlying this finding, we are utilizing viral vectors to locally regulate Narp expression in vivo and field recordings to determine how Narp deletion affects learning in brain reward pathways. The student will learn about molecular, pharmacological and behavioral research into the biological mechanisms underlying drug addiction. The student will have an opportunity to learn basic laboratory techniques including immunoblotting, immunohistochemistry and a variety of rodent behavioral paradigms. The student will also learn about more complex studies involving intra-accumbal pharmacology, brain injections of viral vectors and electrophysiological studies.

Investigator:	Robert N. Pechnick, Ph.D.
Institution:	Cedars-Sinai Medical Center, Los Angeles, CA
Research Area:	Nicotine Addiction
Project Title:	Nicotine Addiction: Influence of Prenatal and Adolescent Exposure
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	No
Student Attributes:	Seeking high school and undergraduate students interested in and comfortable with using animal models (rats) to study drug abuse.

Project Description:

The mission of Cedars-Sinai's Psychiatry Research Preclinical Laboratory is to understand the fundamental molecular mechanisms underlying mental illness and drug abuse, and to utilize this information to develop new and more effective treatments for these disorders. Research involves studying the consequences of developmental insults on behavior in adulthood. The conceptual framework underlying these studies is that insults (exposure to drugs, stressors, infections, etc.) during critical developmental periods (prenatal and adolescence) produce long-term and sometimes permanent alterations in neuronal organization and function. These developmental insults might predispose individuals to develop depression or play a critical role in the initiation and maintenance of drug dependence in adulthood. Students participating in Summer Research with NIDA 2012 will be trained in the ethical treatment laboratory animals by completing training courses on the use of small and large laboratory animals. They will attend weekly Biomedical and Translational seminars and weekly Psychiatry Grand Rounds. Students will participate in weekly laboratory meetings and present new research data from their experiments as it becomes available. They must complete weekly reading assignments on drug abuse in general and experimental models to study drugs of abuse, and meet once per week with the project PI. There are also daily informal interactions with the PI and the laboratory staff. Students will be studying whether exposure to nicotine before birth and/or during adolescence makes rats more likely to take nicotine as adults and how early exposure to nicotine affects other behaviors in rats. Students will help perform the day-to-day nicotine self-administration experiments, assist with maintaining the rat-breeding colony, assist with surgically implanting osmotic mini-pumps and chronic jugular catheters, and gain valuable experience working with a team in conducting the experiments.

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Investigator: Thomas Prisinzano, Ph.D.
Institution: University of Kansas, Lawrence, KS
Research Area: Chemistry
Project Title: Chemistry of Drug Abuse
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: Yes
Housing Availability: 6/1/2012
Student Attributes: Seeking high school and undergraduate students majoring in chemistry or biology. Applicants should be interested in biologically active molecules and working at the interface of chemistry and biology. Other preferred attributes are undergraduate organic chemistry and a sense of humor.

Project Description:

The research in this laboratory involves drug design, organic synthesis, natural product isolation, and medicinal chemistry of potential medications for the treatment of drug abuse. Students will get hands-on experience with natural product isolation and organic synthesis techniques with small molecules that are designed to interact with specific targets involved in drug abuse. They also will get familiar with the concepts of medicinal chemistry and iterative structure-activity relationships. Compounds isolated and/or synthesized will be characterized using state of the art analytical techniques.

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Investigator: Chitra Mandyman, Ph.D.
Institution: The Scripps Research Institute, La Jolla, CA
Research Area: Methamphetamine addiction and hippocampal neurogenesis
Project Title: Methamphetamine and Adult Hippocampal Neurogenesis
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students majoring in biochemistry or neuroscience. Students should have interests in animal behavior such as monitoring rats on running wheels, biochemical experiments including western blotting and immunohistochemistry. Applicants with experience in animal handling, pipetting, tissue handling, and gel preparation are encouraged to apply. Applicants must be at least 16 years old by the program start date.

Project Description:

Neural stem cells persist in the adult hippocampal subgranular zone and mature into hippocampal-granule cell neurons (a process known as hippocampal neurogenesis). Neurogenesis may play a significant role in brain repair and recovery from a number of insults. Withdrawal and relapse are integral parts of the addiction cycle, and withdrawal from methamphetamine self-administration (Meth SA) enhances reinstatement to Meth seeking. It is therefore essential to determine whether withdrawal from Meth SA alters the process of hippocampal neurogenesis. The Student intern will assist the graduate student to determine if stimulating neurogenesis during withdrawal in Meth SA animals will reduce or prevent relapse, and use this model as a putative model of regenerative therapy for addiction-induced brain dysfunction. Specifically, the student intern will determine whether animals that perform voluntary wheel running during withdrawal from Meth SA will exhibit reduced reinstatement to Meth seeking compared to sedentary animals, and whether these effects are due to normalization of withdrawal-induced altered hippocampal neurogenesis. The overall goal of the summer internship will be to assess if wheel running alters the process of spontaneous neurogenesis during withdrawal and if stimulation of neurogenesis during withdrawal contributes to repair and recovery.

Investigator:	Jacob M. Hooker, Ph.D.
Institution:	Massachusetts General Hospital, Charlestown, MA
Research Area:	Molecular imaging and chemistry
Project Title:	Development of Imaging Agents for the Brain
Start Date, Program Length:	6/1/2012 - 8 Weeks
Housing Available:	No
Student Attributes:	We are seeking students who have a strong interest in pursuing graduate studies at the interface of chemistry and neurobiology. Undergraduate students with a background/major in chemistry, chemical biology, or biochemistry are preferred. Previous research experience in a chemical laboratory is advantageous, but not required. Creative, energetic students will succeed within our dynamic group environment. Applicants must be at least 18 years old by the program start date.

Project Description:

Dr. Hooker's research laboratory within the Martinos Center for Biomedical Imaging at Massachusetts General Hospital works to develop new imaging agents, which will help to provide information about chemistry occurring in the human brain. The research within the group spans all aspects of basic and translational science from chemical synthesis and methods to non-invasive neuroimaging. Members of the group work in a laboratory setting as a dynamic and energetic team. Undergraduates are paired with postdoctoral research fellows on projects aimed at maximum knowledge transfer. This stimulating environment makes learning exciting. Summer projects through the NIDA program will focus on organic chemistry and synthesis. Students will learn to synthesize, purify, and analyze complex molecules that address targets in the brain. In addition, students will characterize the molecules they synthesize using biology and chemical biology screening techniques (such as enzyme-coupled assays). Ultimately, students will participate in the design and radiochemical labeling of these molecules for use in autoradiography and PET (positron emission tomography) imaging.

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Investigator:	Stewart Clark, Ph.D.
Institution:	University at Buffalo, SUNY, Buffalo, NY
Research Area:	Neuropeptide Pharmacology
Project Title:	Modulation of Dopaminergic VTA Neurons by Urotensin II
Start Date, Program Length:	6/4/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/4/2012
Student Attributes:	We seek undergraduate juniors or seniors who are interested in pursuing graduate studies or a research career in biomedical sciences, with an emphasis on behavioral psychology, neuroscience, or pharmacology. Students will be given the opportunity to learn behavioral and surgical techniques. Therefore, a willingness to engage in research utilizing live animals is a must. Previous small animal handling experience is strongly desired, but not required. In addition, anatomical studies utilizing radioisotopes are a standard technique in our laboratory. Any student uncomfortable with the use of radioisotopes should not apply. Students should be confident, well organized, with strong interpersonal skills and excellent writing and oral English skills. Applicants must be at least 18 years old by the program start date.

Project Description:

The core of my current research is “systems pharmacology”, in which we explore the function of a recently discovered neuromodulator; urotensin II (Ull). Ull was originally isolated from fish and is known for its strong cardiovascular effects in mammals. Although there has been much research done in regard to Ull’s role in the cardiovascular system, Ull was originally identified as a neuropeptide. The Ull receptor is expressed by cholinergic neurons of laterodorsal and pedunculo pontine tegmental nuclei, an area known to be involved in sensory-motor gating, learning, and motivated behaviors. We are currently using behavioral paradigms such as Conditioned Place Preference and Locomotor Sensitization to explore Ull’s role in reward-related behaviors. Our hope is to learn whether Ull modulates the neural circuitry involved in addictive behavior, with our ultimate research goal being to elucidate the endogenous function of Ull. The CLIMB Program (Collaborative Learning and Integrated Mentoring in the Biosciences, www.acsu.buffalo.edu/~climb/home.html) at the University at Buffalo hosts a number of Summer Research Students each summer. The students will participate in an integrative career skills development program which entails a variety of networking and skill building activities: Introduction to Lab Skills and Laboratory Safety Training, Identifying Targets for Drug Discovery in the 21st Century weekly seminar series, and the Buffalo Wing Social. Students will present their research findings as oral presentations at the CLIMB Program Research Day and have the chance to present a poster or participate in oral presentations at the School of Medicine and Biomedical Sciences Summer Undergraduate Students Research Day. Our overall goal is to introduce students to research in bioscience, to facilitate understanding of recent advances in the pharmacological and toxicological sciences, and to mentor students toward graduate careers in these disciplines.

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Investigator:	Nurulain Zaveri, Ph.D.
Institution:	Astraea Therapeutics LLC, Mountain View, CA
Research Area:	Drug Discovery and Medicinal Chemistry of Drug addiction medications
Project Title:	Discovery of Bifunctional NOP/Opioid Ligands for Drug Addiction Therapy
Start Date, Program Length:	6/15/2012 - 9 Weeks
Housing Available:	Yes
Housing Availability Date:	6/16/2012
Student Attributes:	Seeking undergraduate students (juniors or seniors), preferably with interests in clinical psychology. Psychology and neuroscience majors preferred.

Project Description:

The research in this laboratory involves drug design, organic synthesis, and medicinal chemistry of potential medications for drug abuse treatment. Hands-on experience in organic chemistry laboratory techniques desirable. The research project is multidisciplinary and involves collaboration with neuropharmacologists for in vitro and in vivo testing of the candidate compounds. Students will get experience with hands-on organic synthesis of small molecules that are designed to interact with specific target proteins that are involved in drug abuse. They will also become familiar with the concepts of medicinal chemistry and iterative structure-activity relationships. There will be opportunities to learn the process of pharmaceutical drug discovery. There will also be opportunities to learn computer-assisted drug design techniques. Students that are in a program with an organic chemistry major will find this a great learning experience for application of their laboratory skills for pharmaceutical drug discovery.

Investigator:	Lara Ray, Ph.D.
Institution:	University of California, Los Angeles, Los Angeles, CA
Research Area:	Clinical Psychology and Neuroscience
Project Title:	Pharmacogenetics of Naltrexone for Methamphetamine Use Disorders
Start Date, Program Length:	6/18/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/16/2012
Student Attributes:	Seeking undergraduate students. Applicants with skills in molecular biology, animal handling, and computer use (e.g., Microsoft Excel, Word, and PowerPoint) are preferred. For epidemiology and literature review projects, only computer skills are needed. Applicants must be at least 18 years old by the program start date.

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Project Description:

Students will be involved in all phases of a study of medications for methamphetamine dependence. Students will interact with research participants over the phone (for screening) and in person for behavioral and clinical assessments. Students will also assist with data collection during the inpatient and the neuroimaging components of the study. Under the direct supervision of the Principal Investigator (Dr. Ray) and a graduate student mentor (Guadalupe Bacio), students will develop and test an independent research question based on the available data from the study. Students will submit their work for poster presentation at an addiction-related research conference.

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Investigator:	Theodore C. Friedman, M.D., Ph.D.
Institution:	Charles R. Drew University, Los Angeles, CA
Research Area:	Opiates, Marijuana and Nicotine, Especially the Effect on Diabetes and Obesity
Project Title:	Endocrine Effects of Drugs of Abuse
Start Date, Program Length:	5/24/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	5/24/2012
Student Attributes:	Seeking undergraduate students. Applicants with skills in molecular biology, animal handling, and computer use (e.g., Microsoft Excel, Word, and PowerPoint) are preferred. For epidemiology and literature review projects, only computer skills are needed. Applicants must be at least 18 years old by the program start date.

Project Description:

The Charles Drew University is a site of the MIDARP (Minority Institution's Drug Abuse Research Development Program). Dr. Theodore Friedman is the Program Director. Most of our research is on the endocrine effects of drugs of abuse. We are intrigued by the clinical condition that smokers are lean, yet have more cardiovascular disease, insulin resistance, and diabetes. We are using mouse models to understand this paradox and have found that nicotine plus a high fat diet leads to weight loss and reduced abdominal fat, yet ectopic fat depositions in liver and muscle. We also have projects on how nicotine affects the hypothalamic-pituitary-adrenal (HPA axis), how marijuana affects diabetes, and how opioids are involved in food intake. Other projects are entitled Addiction Parameters and Opiate Biosynthesis in PC2 Knockout Mice, endogenous β -endorphin/Enkephalin and Cocaine Addiction, and Cardiac Consequences of Prenatal Cocaine Exposure. Additional opportunities exist for PET scanning projects, clinical projects, literature review projects, and epidemiology projects related to drug addiction. All experiments are well suited for student involvement and will introduce them to major techniques in substance abuse research. Housing is available at nearby California State University-Dominguez Hills and USC students will be given the opportunity to present at our annual Drew Substance Abuse Research Day. Come enjoy a great summer in sunny Los Angeles and learn about drug addiction research.

Investigator:	Courtney Miller, Ph.D.
Institution:	The Scripps Research Institute, Jupiter, FL
Research Area:	Epigenetic and synaptic regulation of addiction
Project Title:	Epigenetic Regulation of Methamphetamine-Associated Memory
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	No
Student Attributes:	Seeking undergraduate students. Applicants must be comfortable working with animals.

Project Description:

This laboratory is working to understand the neurobiological underpinnings of memory disorders, with the goal of developing novel therapeutics. The research focuses on the contribution of epigenetic mechanisms to two serious health issues, drug addiction, and age-related memory decline. Interestingly, while addiction and mild cognitive impairment represent opposing disorders of memory, both are aberrations of a normal cognitive process. The neurochemical alterations produced by a drug of abuse, such as methamphetamine, initiate a cascade of events that produce aberrantly strong memories. On the other hand, the poorly understood events of aging result in weakened memory traces. This bidirectionality demonstrates that memories are susceptible to modulation by any number of processes capable of influencing the CNS. Thus, we believe that by understanding the dynamic and stable nature of epigenetic mechanisms in the brain, along with their transcriptional consequences, we can better our understanding of the memory processes we take for granted every day. For example, how does a dynamic brain stably maintain memories beyond the initial functional and structural changes? How can we speed up the process of extinguishing a memory in addicted individuals, while preventing this from happening in older adults? How does the brain update memories? We are working to address these questions using a variety of animal behavioral models in combination with techniques ranging from viral delivery of shRNAs in vivo to bisulfite pyrosequencing for visualizing specific changes in cytosine methylation.

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Investigator:	Lawrence R. Toll, Ph.D.
Institution:	Torrey Pines Institute for Molecular Studies, Port Saint Lucie, FL
Research Area:	Pain, Addiction, Opiate Neuroscience
Project Title:	Mixed NOP/Mu Compounds and the Involvement of Their Receptors in Analgesia
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/1/2012
Student Attributes:	Seeking undergraduate students with a major in any of the biological sciences. Students with an interest in neuroscience are preferred. Laboratory experience would be a benefit, but is not required. Students should not be averse to animal handling as they will be involved in in vivo behavioral experiments. Experience with Microsoft Word and Excel would also be beneficial. Applicants must be at least 18 years old by the program start date.

Project Description:

Dr. Toll's research is focused on the involvement of the NOP receptor and its endogenous ligand, nociceptin, in pain and addiction. Nociceptin blocks opiate reward, but its effect on pain is complicated since it blocks opiate analgesia in the brain but is analgesic on its own in the spinal cord. In addition, the NOP system changes in response to chronic pain and these changes are potentially involved in the development of chronic pain. We have designed and developed novel NOP receptor agonists and antagonists, as well as compounds that activate both NOP and mu opioid receptors. It is our hypothesis that NOP/mu compounds can be developed that have analgesic activity in the absence of addiction liability. Furthermore, selective NOP agonists appear to be effective for the treatment of chronic, but not acute pain. This lab, therefore, studies the involvement of the NOP/nociceptin system in the development of chronic pain and we also design, synthesize and test novel NOP active compounds that could be used as treatments for chronic and acute pain, as well as potential drug abuse medications. This work entails in vitro laboratory work, such as receptor binding and functional activity. It also has in vivo experiments in mice and/or rats in which we determine analgesic activity and addiction liability. This would require basic laboratory work, requiring students with interests and skills in life sciences and potentially animal behavioral studies.

Investigator:	Richard A. Houghten, Ph.D.
Institution:	Torrey Pines Institute for Molecular Studies, Port Saint Lucie, FL
Research Area:	Pain, Drug Discovery
Project Title:	High Throughput In Vivo Screening: Translational Generation of Novel Analgesics
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability:	6/1/2012
Student Attributes:	Seeking undergraduate students, preferably majoring in chemistry, biology, or pharmacology. Students with an interest in any of the following areas are encouraged to apply: (1) synthetic organic chemistry and its application toward drug discovery, (2) biology, especially interests in assay studies on in vitro systems, (3) biology, pharmacology or neuroscience, especially interests in drug effects on animal behaviors, or (4) pharmacology, chemistry or biology, particularly those interested in analytical chemistry. Applicants must be at least 18 years old by the program start date.

Project Description:

The central working hypothesis of the proposed study is that the direct in vivo high throughput screening (in vivo HTS) and deconvolution of large mixture-based libraries will accelerate drug discovery and the subsequent identification of more advanced therapeutic candidates poised for preclinical studies. The traditional approach to small molecule drug discovery is to identify individual compounds sequentially through in vitro HTS assays, before selected compounds are tested in vivo. However, such a late transition to animal testing fosters a high rate of attrition that is costly in both time and research dollars. To circumvent this problem, this proposal utilizes a novel translational approach capable of eliminating non-efficacious compounds at the earliest stage by pioneering in vivo HTS. The research design utilizes a method of screening large, mixture-based libraries in vivo to identify novel compounds that are active in an in vivo mouse model of nociception. A total of 37 available, in-house, small molecule library mixtures (representing over 7 million small molecules) will be screened in vivo to identify two additional scaffolds for development, complementing a previously identified scaffold. Individual compounds selected from these three scaffolds will be synthesized and purified for additional development which will include in vitro analysis, pharmaceutical profiling, and additional in vivo models. Ultimately, we will have examined multiple scaffolds and selected 2-3 NCEs to initiate preclinical studies.

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Investigator: Deborah Baro, Ph.D.
Institution: Georgia State University, Atlanta, GA
Research Area: Cellular and Molecular Neuroscience
Project Title: Mechanisms Underlying Opposing Neuronal Responses to Brief vs. Prolonged Dopamine
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students who are interested in learning basic laboratory skills in cell and molecular biology. Biology majors are preferred. Students would benefit from having taken previous cell biology and/or neurobiology courses. No previous lab experience is required. Students will most likely also participate in the summer BRAIN program. As part of this program, students attend weekly meetings with their peers to learn about requirements for graduate school, discuss ethical questions, etc. They also present their research in a symposium at the end of the summer on a limited basis.

Project Description:

Dopamine (DA) is a neuromodulator that regulates neuronal properties by binding to type 1 (D1R) or type 2 (D2R) DA receptors. When bound to DA, these receptors trigger internal signal transduction cascades that modify many target proteins in the cell. Normally DA is present in the extracellular space at low levels. DA concentrations can be transiently and locally increased 100- to 1,000-fold when DA is released by dopaminergic neurons. Drugs of abuse disrupt normal DA transmission and increase extracellular DA for a prolonged period of time. We are studying the function of tonic levels of DA and how this function is changed by drugs of abuse. Using a small physiological model system, we found that tonic DA regulates translation of ion channels. In particular, DA regulates the translation of transient potassium channels, also known as A-channels. D1Rs increase the number of A-channels by activating a signal transduction cascade involving the kinase mTOR. D2Rs decrease the number of A-channels through a translation-dependent, but mTOR-independent pathway. DA normally regulates A-channel translation in the context of other modulators also present in the extracellular space. Under these conditions, A-channel translation is balanced, because other modulators can downregulate A-channel numbers. When DA levels are increased 5-fold for an hour (similar to the effects of cocaine), DA dominates and we observe a persistent increase (D1Rs) or decrease (D2Rs) in the number of A-channels that lasts for more than 4 hours. This then alters neuronal firing properties and the response to synaptic inputs. We are currently extending our studies on the mechanism by which DA regulates A-channel translation. Students will be able to gain hands on experience for several techniques including in situ hybridization, immunohistochemistry and confocal microscopy, gel electrophoresis, tissue culture, and FUNCAT. Students may assist senior scientists with electrophysiology experiments on a limited basis.

Investigator:	Kathryn A. Cunningham, Ph.D.
Institution:	The University of Texas Medical Branch, Galveston, TX
Research Area:	Psychopharmacology of Addiction
Project Title:	Neuropharmacological Mechanisms of Abused Drugs
Start Date, Program Length:	6/4/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/2/2012
Student Attributes:	Seeking high school and undergraduate students with an interest in experimental psychology, biology, or other sciences related to psychopharmacology or behavioral neuroscience. Students who are looking for research experience with animal (rodent) models of stimulant addiction are preferred. Applicants must be at least 16 years old by the program start date.

Project Description:

Summer Research with NIDA at the University of Texas Medical Branch is a 10-week program for high school and college undergraduate students to gain experience in an ongoing program of translational addiction research. This program is an excellent fit for students interested in pharmacology and behavioral neuroscience. The goal of our training program is to motivate student participants to pursue a career involving research in the biomedical sciences. Our areas of training span basic and translational initiatives in drug abuse and addiction. Specific areas of interest include understanding key components of serotonergic neurobiology that drive relapse with the ultimate goal of optimizing serotonergic medications that maintain drug abstinence. Our ongoing research combines various pharmacological manipulations and neurochemical techniques (cellular assays, RT-PCR) paired with behavioral models of addiction (self-administration and one-choice serial response task). Students will be engaged in all aspects of their project, including data collection, analysis and presentation of findings. The students will be closely mentored by experienced project personnel to gain an understanding of this experimental behavioral research.

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Investigator: Linda R. Watkins, Ph.D.
Institution: University of Colorado at Boulder
Research Area: Glial Dysregulation of Pain and the Effects of Other Drugs of Abuse
Project Title: Glial Dysregulation of Pain and the Effects of Other Drugs of Abuse
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: No
Student Attributes: Seeking undergraduate students who are highly motivated to learn new skills and become deeply involved in the research at every level. Applicants should be highly dependable and accurate, with great attention to detail and comfortable working alone or in a team. Students interested in neuroscience research with rats are preferred. Students should be self-motivated, meaning they will proactively think ahead to the next steps involved in a research activity. Applicants should be comfortable with a changing environment and changing schedules, including working on weekends or evenings when needed by the on-going study.

Project Description:

This is a multi-disciplinary research program that uses laboratory rats as the subjects. Researchers in this lab are studying how NON-neuronal cells, called glia and endothelial cells, have a surprisingly major involvement in what has always been considered to be things done solely by neurons. Among these are the creation and maintenance of various types of pain states, suppressing the ability of drugs like morphine to inhibit pain yet amplifying the development of bad effects of opioids (like respiratory depression, constipation, dependence, tolerance) and amplifying the rewarding effects of drugs (such as morphine, cocaine, methamphetamine) that is linked to drug abuse. The work is broad in scope, involving sterile surgery, analysis of behavior, molecular biology, cell culture, protein analysis, neuro-anatomy, etc.

Investigator: Yulong Chen, Ph.D.
Institution: State University of New York at Binghamton, Vestal, NY
Research Area: Signal Transduction and Epigenetic Regulation in Drug Addiction
Project Title: Genome-Wide Protein-DNA Interactions Responding to Chronic Opioid Treatment
Start Date, Program Length: 6/1/2012 - 10 Weeks
Housing Available: Yes
Housing Availability Date: 5/29/2012
Student Attributes: Seeking undergraduate students. Motivated students who have basic molecular and cell biology research laboratory skills, and who aspire to have a research career in life sciences are strongly encouraged to apply.

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Project Description:

Research interests of this laboratory focus on signal transduction and epigenetic regulation related to some fundamental biological questions: cell survival and apoptosis, neuronal differentiation and development, and drug addiction. We are applying multidisciplinary approaches to addressing the fundamental questions. The research methods that we are using are a combination of techniques of molecular and cell biology, including cell culture, DNA arrays, RNA interference, next generation sequencing, protein chemistry, and synthetic organic chemistry. The potential findings from this research may have broad implications in several fields such as drug addiction, neurodegenerative disorders, neuronal development, and cancer biology. Student interns who participate in this NIDA-sponsored summer research will be able to get involved in the projects in association with investigating genome-wide protein-DNA interactions associated with drug addiction. Applicants must be at least 18 years old by the program start date.

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Investigator:	Mark Galizio, Ph.D.
Institution:	University of North Carolina, Wilmington, Wilmington, NC
Research Area:	Psychopharmacology
Project Title:	Drugs of Abuse and Memory Span
Start Date, Program Length:	6/1/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/1/2012
Student Attributes:	Seeking students high school and undergraduate students with interests in psychology or neuroscience who are interested in working with laboratory animals to study the effects of drugs on behavior and cognition.

Project Description:

Drugs of abuse are associated with a variety of cognitive deficits including disruption of learning and memory. Animal models are needed to better assess the cognitive risks of use and abuse of psychoactive drugs. Research in this laboratory is focusing on a recently developed test that assesses rats' ability to remember an increasing number of odors within a single experimental session: the olfactory span task. This procedure offers the novel potential to analyze the effects of drugs as a function of memory load. Ongoing experiments are determining the acute effects of drugs of abuse and other selected compounds that are thought to interfere with memory using the span procedure including benzodiazepines (chlordiazepoxide, midazolam), NMDA antagonists (dizocilpine, ketamine), opiates (morphine), psychostimulants (methylphenidate, methamphetamine, MDMA), and an anticholinergic hallucinogen (scopolamine). An additional concern is that some drugs such as MDMA and methamphetamine might produce long term memory impairment after users go on a binge of heavy use. Additional experiments in this laboratory are examining residual effects on memory span after exposure to neurotoxic doses of MDMA and methamphetamine. Students are engaged in every aspect of this research program and this summer research experience will provide opportunities for students to develop research skills and increase their understanding of psychopharmacology and neuroscience. This will include learning to train and perform behavioral tests with rats using MED associates software, data collection and analysis, and readings/discussion about drug abuse and psychopharmacology in lab meetings.

Investigator:	Steven Shoptaw, Ph.D.
Institution:	University of California, Los Angeles, Los Angeles, CA
Research Area:	Phase I Safety Interaction Trial of Ibudilast with Methamphetamine; Varenicline for Methamphetamine Dependence
Project Title:	Transformative Approach to Reduce Research Disparities Toward Drug Users
Start Date, Program Length:	6/18/2012 - 10 Weeks
Housing Available:	Yes
Housing Availability Date:	6/18/2012
Student Attributes:	Seeking undergraduate students with demonstrated interest(s) in pursuing careers in research, public health, medicine, or other healthcare related field or with specific interests in the intersection of addiction and health disparities. Applicants will be asked to provide a writing sample and a curriculum vita. Preferred qualifications include strong writing and analytic skills; familiarity with experimental research, but not necessarily clinical trials; high level of initiative; excellent time management skills; ability to interact with multiple research staff or faculty; completion of a research methods course prior to the start of the internship; and demonstrated interest in assisting with applied biomedical or behavioral research. Prior experience working in a research lab is welcome and is preferred.

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***This project is a late addition to the Social Sciences offerings and is not reflected in the print brochure**

Project Description:

The research group includes Addiction Medicine, HIV Medicine, Psychology, Sociology, and Public Health experts who will provide hands-on experience and training supervised by Dr. Shoptaw. Students will be exposed to theories, methods, clinical issues, public health issues, and community-based research addressing addiction medicine, substance abuse prevention and treatment for methamphetamine addiction and HIV/AIDS prevention, care and treatment. Student interns will be required to complete a research abstract by the end of the 10-week term.

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*This project is a late addition to the Life Sciences offerings and is not reflected in the print brochure.

Investigator: Charles P. O'Brien, M.D., Ph.D.
Institution: University of Pennsylvania, Philadelphia, PA
Research Area: Addictions
Project Title: Treatment Study Using Depot Naltrexone (1/6) Philadelphia Coordination/Data Management Site
Start Date, Program Length: 6/4/2012 - 10 Weeks
Housing Available: Yes
Housing Availability Date: 6/2/2012
Student Attributes: Seeking undergraduate students who are interested in the Behavioral Sciences.

Project Description:

The program at the University of Pennsylvania has been designed to facilitate placements for undergraduate students who are not in close proximity to a participating NIDA grantee. Daily supervision through monitored activities, secured dormitory housing accommodations, and secured placement positions supervised by professional and responsible investigators, junior investigators, and staff are available. As a current NIDA grantee, the University provides research placements for participating students. The Program is a 10-week, 40 hours/week placement, supervised by a Principal Investigator and a designated Program Director. The program will consist of: (1) formal course work, including Psychiatry 105 coursework (Didactics) Diagnosis and Treatment of Substance Abuse and MCAT and GRE training classes (Optional); (2) participation in meetings, consisting of weekly speaker sessions hosted by various investigators from the field; (3) data collection activities and data analysis, active research study preparation, including CRF work and assessments (may include patient contact); (4) laboratory experience/experiments, which includes animal research; (5) library research; (6) group activities, including mentor meetings and other group activities; and (7) final oral presentations. Additionally, the program provides mentorship to the participating students for the 10-week placement, in which Medical school entrance and other items are discussed.

Is Your Application Ready to Send to NIDA?

Complete the checklist below before submitting all parts of your application packet by:

Tuesday, January 17, 2012.

Please note that this is not a postmark deadline; your complete application must arrive at NIDA by this date. Incomplete applications will not be considered.

	Yes	No	If NO, please explain
I have completed every section of the program Application Form.			
My Statement of Research Career Interest is included with my application.			
I have signed the application form.			
My official transcript is included with my application. OR I have ordered my official transcript and it will be sent directly to NIDA by my school.			
My letters of recommendation are included with my application. OR My letters of recommendation will be sent directly to NIDA by my letter writers.			
*My 1 st research placement site selection meets my housing needs.			<i>If No, please select a site that meets your housing needs.</i>
*My 2 nd research placement site selection meets my housing needs.			<i>If No, please select a site that meets your housing needs.</i>
*My 3 rd research placement site selection meets my housing needs.			<i>If No, please select a site that meets your housing needs.</i>

***NOTE: If you require housing, please be sure to select sites that indicate housing is available. On-campus housing is not available for students under 18 years old or for undergraduate students who live within daily commuting distance of their assigned internship site.**



National Institute on Drug Abuse

National Institutes of Health

Special Populations Office

6001 Executive Boulevard, Room 3109

MSC 9567

Bethesda, MD 20892-9567