The University of Chicago

DEPARTMENT OF
PSYCHIATRY & BEHAVIORAL
NEUROSCIENCE

NEWSLETTER

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Department of Psychiatry &

Behavioral Neuroscience

" <u>Top Story</u>"

TRAUMA

TRAUMA has become a major issue of our time. It is unfortunate that this is the case. Trauma is an inescapable part of the work now for the Department of Psychiatry and Behavioral Neuroscience (the Department) and University of Chicago Medicine (UCM).

It was said when I was in training (many years ago) that if you understood some infectious diseases, you could touch almost every facet in medicine including the pathophysiology, genetics, biology, the many different symptom presentations, treatments and importantly, social factors of a disease. I believe one can now say the study of trauma is similar. From the changes in development of children and adolescents, genetic expressions after a trauma, changes in the individual's biology and pathophysiology of symptoms, the many treatments available and the social environment that may increase or reduce the rates of traumatic events as well as the aftermath are now all essential aspects of trauma and its effect on health. Social context is especially important, from childhood abuse and adversity, young adults witnessing violence, gun violence in general, assaults, accidents of all kinds, to the compassion fatigue of first responders.

The Department has dedicated many resources to help our patients, our hospital and our community deal with trauma. For example, all clinicians and trainees in the Department strive to work in a trauma-informed manner. Programs for adolescents such as Healing Hurt People and REACT treat and study the effects of trauma on young people. For adults, a form of individual therapy called exposure therapy helps many people deal with the traumas of the past for a better future, even traumas that had occurred many decades earlier. Group therapies to assist clinicians dealing with traumas have also started this year and there are many medications proven helpful in post-trauma care.

The Department plans continued growth in the area of trauma, to increase our knowledge, expand our treatments and serve our community.

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UPCOMING EVENTS:

GRAND ROUNDS

Outside Speakers / L 168 (12 - 1:30 PM)

Sophia Vinogradov, M.D. University of Minnesota (11/21/19)

Bernice Pescosolido, Ph.D. Indiana University (1/30/20)

E. David Klonsky, Ph.D. University of British Columbia (2/27/20)

Evelyn Attia, M.D. Columbia University Medical Center (3/20/20)

Robert M. Weinrieb, M.D., F.A.C.L.P. University of Pennsylvania Health System (4/09/20)

> Helena Hansen, M.D., Ph.D. New York University (5/21/20)

Case Conferences / H 103 (12-1:30 PM)

Ped Neuro Intern: Lauren Bush, M.S. (11/14/19) Child PGY5: Malcom Vandrevala, M.D. (12/12/19)

Adult PGY4: Jessica Stier, M.D. (1/9/20)

Adult PGY4: Shivani Kumar, M.D. (1/16/20)

Adult PGY4: Martin Greenwald, M.D. (2/20/20)

Child PGY5: Mia Bell, D.O. (3/19/20)

CL Fellow: Victor Patron Romero, M.D. (4/16/20)

Adult: PGY4: Lucas Coppes, M.D., M.S. (4/30/20)

CLINICAL MISSION: ADULT PSYCHIATRY

Marie Tobin, MD, Professor and Section Chief of Adult Psychiatry As we approach the end of AY 2019 we reflect on many notable developments in the adult psychiatry clinical section. 2019 marked the transfer of addiction treatment services to Ingalls's Hospital with the opening of an impatient addictions treatment until coupled with an intensive outpatient program (IOP). Synergy Behavioral Healthcare continues to assist with evaluation and transfer of psychiatric patients in the emergency room. Many patients are transferred to our in-patient psychiatric unit at Ingalls's Memorial Hospital facilitated by the addition of Dr. Carolyn Shima as the second in-patient attending psychiatrist. In order to meet the growing demand for trauma related services more adult clinical providers are receiving specialty training in providing trauma informed care. Dr. Ehsan joined the Faculty in 2019 to develop treatment modalities for resistant affective disorders. Dr. Fabiana Araujo joined the faculty as a full time health psychologist to provide behavioral medicine in the primary care clinics. The integration of behavioral services into gastroenterology and bariatric surgery continues. The Psycho-Oncology Program continues with psychiatric presence in DCAM oncology clinics every weekday. In order to meet the ever growing need for outpatient psychiatric services it is anticipated that full-time psychotherapists will be added at the Orland park and South Loop satellite sites.

We look forward to an exciting and productive AY 2020.

RESEARCH MISSION



Jon Grant, JD, MD, MPH, Research Section Chief & Mission Director for Research
Our research section has been busy on many fronts over the last several months. One of the most exciting developments has been the addition of Molly Erickson, PhD to our faculty. Dr. Erickson comes to us from

Rutgers University and has a robust research program in the area of neural mechanisms that give rise to low-level cognitive impairment in people with schizophrenia.

In other research news, Dr. de Wit's lab has produced some exciting new research findings that have garnered important attention in high impact research journals. In one such study, Dr. de Wit's lab reported that although it has been known that people who use the drug 'ecstasy' (MDMA) report that the drug produces feelings of empathy and interpersonal closeness, less research has investigated some of the psychological processes that might mediate these prosocial effects. They examined the acute effects of MDMA on responses to social or affective touch, in healthy young adults and found that MDMA enhances the pleasantness of the sense of touch. They suggest that the measure of affective touch may offer a new opportunity to study how drugs affect social behavior and perception.

Finally, two new books by our faculty have recently been published by the American Psychiatric Press. Dr. Emil Coccaro published Aggression: Clinical Features and Treatment Across the Diagnostic Spectrum which addresses the role aggression plays in multiple psychiatric disorders. Dr. Jon Grant published Obsessive-Compulsive Personality Disorder which examines multiple facets of the disorder including brain imaging, cognitive testing, and biological markers.

CLINICAL MISSION: C&A PSYCHIATRY



Karam Radwan, MD, FAPA, Section Chief C & A, Director, Child & Adolescent Psychiatry Fellowship Program As we started our FY'20, Child & Adolescent Psychiatry has officially joined our adult psychiatry services at Ingalls in providing inpatient care. We are currently providing inpatient

services to adolescents with a plan to recruit additional faculty to provide services to children by July 2020. We have many exciting news to share; to list few; Dr. Drossos received The Comer Development Award for her study on Cognitive Behavior Therapy for Pediatric Patients with MALS. Dr. Afzal has been disseminating the AACAP pathways' novel approach to standardizing suicide risk assessment in medical settings. The Chicago Child Trauma Center and Drs. Anam and Dinizulu recruited several trainees to join the REACT clinic as it continues to provide an innovative methods of addressing trauma and social determines for our patients. Our PCIT Clinic under the directorship of Dr. Young has established an outstanding reputation in our pediatric community and it attracts exceptional trainees who are eager to learn this integrative psychotherapeutic intervention. Dr. Megan Scott and Caitlyn Lynch have established our Program for Education and Enrichment of Relational Skills (PEERS) for adolescent with social deficits after completing training at UCLA. Dr. Radwan started recruitment for our pilot study on oxidative stress and glutathione in children with Autism Spectrum Disorder. At the national level, seven faculty from our section presented at this year's AACAP Meeting in Chicago in October. At International level, three of our faculty members were invited by the National Clinical Research Center for Mental Disorders in China to provide the first CBT training for children and adolescent in Beijing.

EDUCATION MISSION



<u>Deborah</u> <u>Spitz</u>, <u>MD</u>, <u>Director</u> <u>of</u> <u>Education</u> The Education programs in the Department have an annual rhythm, and if it is Fall, it is time to review applications and interview applicants. The Child and Consult Liaison Fellowships are already interviewing, as their Match date- when

selections must be entered by applicants and programs—is in December, with Match results in early January. The Adult Program is well into our interviewing season, with Match selections due in February and Match results in March. And the Psychology Internship Match process is beginning now, with applications available this week for review by programs. We are all focusing on finding the most interesting, committed and capable people possible. But while the seasonal rhythm is familiar, the overall Match landscape—at least in the world of the Adult Psychiatry Match—has changed dramatically in the past few years. With the opening of many new American medical schools, the number of applicants in all specialties has risen dramatically, and psychiatry is now a highly competitive specialty. With this come challenges, however: as of October 15, 2019 there were 2086 USMG (US Medical Graduate) applicants, similar to 2018 when at the same time there were 2082. In 2018 USMGs applied to an average of 41.8 programs, and that is true again this year. So every program, including ours, is trying to figure out which applicants have a serious interest in the University of Chicago, and how to identify them. So far, we have seen a wonderful group of people.

WELLNESS SPOTLIGHT

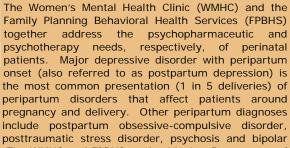


Psychiatric Perspective by *Dr. Royce Lee.* Compassion fatigue was coined as a description of nurse burnout and disengagement in Joinson's 1992 article, "Coping with compassion fatigue". The title of Charles Figley's seminal 1995 book, *Compassion Fatigue: Coping with Secondary Traumatic Stress Disorder in Those Who Treat the Traumatized*, spells out the uncomfortable truth that one of

the work hazards of the helping profession are syndromes of so-called secondary traumatic stress. A quick and easy, empirically based estimate would tell us that about 25% of us will cross over into clinical symptoms based on exposure to traumatic stressors at work. Our own departmental data is consistent with this. Those seeing a higher volume of cases involving interpersonal violence, death, or physical injury, will accept a heavier load. The literature is very clear about this. My approach to compassion fatigue is based on the idea that compassion fatigue is not so much an issue of wellness but rather quality improvement and safety. That is, attention to compassion fatigue is not for purposes of enhanced quality of life, but for keeping the workplace safe. As such, it is a common yet critical mistake to not build compassion fatigue reduction measures into every day clinical operations. The most effective method remains a scientific question. In the absence of definitive answers, pragmatic approaches are necessary. Given the robust scientific literature and the predictable relationship between independent and dependent variables, it is up to those at the supervisory role to produce unit level plans to monitor for and ameliorate the effects of secondary traumatic stress. I think that a combination of formal and informal processes is advisable. As an example of an informal process, in the Thursday morning Personality Disorder and Trauma clinic, we've been discussing ways to change the clinic format to help reduce the burden of secondary traumatic stress. As an example of a formal process, the department hosts a monthly, Monday afternoon compassion fatigue meeting, with support from HDSI, and attendance from different UCMC departments. If you'd like to attend or are interested in upcoming training opportunities, email me and you'll receive meeting notifications (*royce@uchicago.edu*)

CLINICAL PROGRAM SPOTLIGHT





disorder. The WMHC and FPBHS work with the Department of Obstetrics and Gynecology to address these issues. The WHMC provides thorough evaluation and medication management. The WMHC utilizes a multidisciplinary team, which can include a resident, fellow, and psychologist to treat patients and provide support and consultation to physicians in the Department of Obstetrics and Gynecology in to prescribe medications for patients with mild depressive and anxiety symptoms. The FPBHS provides short-term psychotherapy utilizing an integrative therapeutic approach. Both clinics are gender-responsive services that strive to be inclusive and welcoming to trans patients and patients of all sexual orientations.

The Women's Mental Health Clinic accepts referrals for psychiatric services/medication management in EPIC, self-referrals, and referrals from the University of Chicago Student Counseling Service. The Family Planning Behavioral Health Services accepts referrals for psychotherapy separately in EPIC. Individuals interested in learning more about the program can contact Dr. Zehra Aftab (WMHC) and/or Dr. Candice Norcott (FPBHS).

RESEARCH PROGRAM SPOTLIGHT



The Eating Disorders Research Program, directed by *Dr. Jennifer Wildes*, seeks to advance knowledge regarding factors involved in the expression and maintenance of disordered eating symptoms (e.g., extreme dietary restriction, binge eating, purging) with the ultimate goal of improving the detection, prevention, and treatment of eating disorders.

Current studies include a NIH-funded project in collaboration with the University of Pittsburgh that aims to characterize behavioral and neural facets of cognitive flexibility in adults with anorexia nervosa and bulimia nervosa, and a study funded by the Institute for Translational Medicine to test a putative biomarker for restrictive eating disorders in adolescents. The Program also serves as one of three sites for a NIH-funded postdoctoral program in eating disorders research that recently was renewed through 2024. There are two eating disorders postdocs at UChicago, Shannon O'Connor, PhD and Hana Zickgraf, PhD. Dr. O'Connor is leading a study to elucidate intergenerational factors that may link food insecurity to disordered eating and obesity, whereas Dr. Zickgraf's research focuses on mechanisms underlying avoidant/restrictive food intake disorder (ARFID), including processes that may distinguish food restriction in ARFID and anorexia nervosa. Finally, Dr. Wildes completed her term as President of the Eating Disorders Research Society (EDRS) in September 2019 by hosting the 25th annual EDRS meeting at the Sheraton Grand Chicago. The program featured local, national, and international speakers, with record attendance by 339 delegates from 18 countries.

CLINICAL FACULTY SPOT-LIGHT



Khalid I Afzal, M.D is a Child & Adolescent Psychiatrist (CAP) who continued as the Director of Pediatric Consultation-Liaison Service after completing CAP Fellowship at UChicago in July 2010. He was promoted to an Associate Professor in July 2017. Clinically, Dr. Afzal has a CAP clinic for psychiatry residents and a specialized,

Psychosomatic clinic with the CAP fellow. His teaching courses include psychiatric interviewing, advanced psychopharmacology, family intervention and clinical hypnosis. Along with his interests in teaching and cultural psychiatry research, Dr. Afzal is the founding member of the AACAP's Pathways in Clinical Care (PaCC) workgroup for the development of the first-ever CAP pathways focusing on suicide risk screening in medical hospitals, pediatric delirium and somatic symptom and related disorder. The suicide risk screening pathway was developed in response to an alarming increase of suicide rate in the 10-24 y/o age-group during the past 7 years, and the Joint Commission's National Safety Goal of screening ALL patients in the ER and medical hospitals. After the publication of the universal suicide-risk screening pathway, NIMH published a press release in December 2018 referencing the pathway, and included the link on its website https://www.nimh.nih.gov/research/research-conducted-at- nimh/asq-toolkit-materials/inpatient/inpatient-clinical-pathway.shtml. The pathway has successfully been adopted by several institutions nationwide including Benioff Children Hospital, UCSF and currently, in the works at UChicago. Dr. Afzal has presented the pathway locally, and at the national and the international conferences, and is working with collaborators in Pakistan to validate the suicide risk screening tool (ASQ) in Urdu.

NEW FACULTY SPOTLIGHT



Molly Erickson, Ph.D., joined the department as an Assistant Professor in October 2019. She received her doctorate in Clinical Science and Neuroscience from Indiana University, and completed her internship at the Baltimore Consortium in 2013. She

then completed a postdoctoral fellowship at the Maryland Psychiatric Research Center, where she studied visual working memory deficits in people with schizophrenia. Most recently she held a position as Assistant Professor at Rutgers University, where she established her own electroencephalography (EEG) laboratory and served as a parttime clinical psychologist in the Rutgers University First Episode Psychosis Clinic. Now at the University of Chicago, Dr. Erickson's work is focused on understanding the neurophysiological basis of perceptual and cognitive deficits in people with psychosis. This work includes NIMH-funded efforts to characterize the relationship between EEG abnormalities and diminished memory capacity in people with psychosis, and to use neurofeedback training to restore these disrupted neural processes. Dr. Erickson is also a key member of the NIMHfunded Cognitive Neurocomputational Task Reliability and Clinical Applications for Schizophrenia (CNTRACS) Consortium, which aims to identify perceptual and cognitive tasks with high reliability and validity that can be used to assess treatment response in people with psychosis. Dr. Erickson looks forward to expanding upon this work and contributing to the growth of psychosis research and treatment in the Department of Psychiatry and Behavioral Neuroscience at the University of Chicago.

NEW FACULTY SPOTLIGHT



D. Ash Ehsan, M.D. joined the department as an Assistant Professor in August 2019. He received his M.D. from the University of Oklahoma College of Medicine and completed his Adult Psychiatry residency training at the University of Chicago. Dr. Ehsan's work within the department is focused on

the management of Treatment Resistant Depression. Additionally, he will be restarting the electroconvulsive therapy service at the University of Chicago and Ingalls Memorial Hospital. He also hopes to start a Gender, Sexuality, and Sexual Health clinic, which would focus on providing care to LGBTQIA+ individuals. He works closely with Dr. Jon Grant in researching addictive, compulsive, and impulsive disorders including Trichotillomania, Obsessive-Compulsive Disorder, and Borderline Personality Disorder. Dr. Ehsan is excited to remain at the University of Chicago as faculty and looks forward to contributing to the growth of the department as well as being involved in the education and training of residents and medical students.

NEW FACULTY SPOTLIGHT



Carolyn Shima, MD is a forensic psychiatrist and assistant professor in psychiatry at University of Chicago Medical Center. She joined our faculty in July 2018, and currently splits her time teaching at University of Chicago Ingalls Hospital in Harvey, IL on the psychiatric inpatient teaching service, and at

UCM main campus. She graduated from Rush Medical college and then attended the University of Chicago for Psychiatry Residency. She was chief resident in 2017. She completed her forensic fellowship at Saint Louis University. She has experience performing forensic evaluations of competency to stand trial, insanity defense, mitigation factors, undue influence/testamentary capacity, and in a variety of criminal and civil cases. Her current clinical practice includes teaching residents and medical students, treating patients in both inpatient and outpatient settings, and psychotherapy.

NEW FACULTY SPOTLIGHT



Fabiana S. Araújo, Ph.D., comes to us from Brazil, where she practiced as a licensed psychologist prior to moving to the US. She completed her pre-doctoral internship at The University of Chicago Medicine (UCM) and received her doctoral in clinical psychology from

Illinois Institute of Technology in 2016. After a one-year post-doctoral fellowship in women's health at Harbor-UCLA, she returned to UCM for a post-doctoral fellowship in integrated behavioral medicine. In January 2019, Dr. Araújo joined the department faculty and currently leads the behavioral medicine service integrated to UCM primary care group. She is passionate about health care providers wellness and is currently involved in several initiatives aiming to address burnout and compassion fatigue among the hospital's staff, trainees, and faculty. Her clinical practice is informed by cognitive behavioral therapy and mindfulness-based psychotherapies.

SPOTLIGHT ON SCHOLARSHIP

A selection of recent scholarly works from our faculty:

King, AC, Cao, D, deWit, H., O'Connor, S.J., & Hasin, D (2019). The role of alcohol response phenotypes in the risk for alcoholism. <u>BJPsych Open 5</u>: E38, 1-3.

Impact of Intersectional Identities on Body Image and Related Shared Decision Making for Sexual Minority Latina Women", **Anam S** MD, Wildes JE PhD, Ordonez K, Mora J, Vela M MD, Grutzmacher J MSW, MPH, Baig AAB MD, Eating Disorders Research Society Annual Meeting, September 2019

Shima C, Finkel SI, Spitz D, Goldstein A. The Geriatric Forensic Psychiatry Rotation at the University of Chicago: Utilization and educational benefit of subspecialty rotations in Psychiatric Residency Training. *Frontiers in Psychology*, 2019.

Lacy, M, Oarikh, , Costello, R., Bolton, C, and Frim, D (2019). Neurocognitive Functioning in Unoperated Chiari Malformation Type 1. Word Neurosurgery, Mar 1, 641-645.

Bassett, S.M., Kim, D.H., Takahashi, L., **Dinizulu, S.M.**, Lee, R., & Voisin, D.R., (2019). A Latent Class Analysis of Factors Associated with Levels of Aggression among African American Youth in Chicago. *Journal of Social Services Research*.

Norcott, C., Keenan, K., Wroblewski, K., Hipwell, A., & Stepp, S. (2019). The impact of adolescent sexual harassment experiences in predicting sexual risk-taking in young women. Journal of interpersonal violence, 0886260519845733.

Zahradnik EK. Review of Cohen AB, Benjamin AZ, Fried TR. End-of -Life Decision Making and Treatment for Patients with Professional Guardians. *J Am Gerlatr Soc.* 2019 Jul 13. In PC-FACS, Sep 2019.

Ioannidis K, Hook R, Wickham K, **Grant JE**, Chamberlain SR. Impulsivity in Gambling Disorder and problem gambling: a meta-analysis.Neuropsychopharmacology. 2019 Jul;44(8):1354-1361.

Brambhatt K, Kurtz B*, **Afzal KI***, Giles L, Kowal E, Johnson K, Lanzillo E, PaCC workgroup, Pao M, Pilioplys S, Horowitz, LM; PaCC Workgroup. (2019). Suicide Risk Screening in pediatric hospitals: Clinical pathways to address a global health crisis. Psychosomatics. 2019 Jan-Feb;60(1):1-9. doi: 10.1016/j.psym.2018.09.003. Epub 2018 Sep 22. PMID 30720552 *JOINT SECOND AUTHOR. https://www.ncbi.nlm.nih.gov/pubmed/30384966

Parker DA, Hamm JP, McDowell JE, **Keedy SK**, Gershon ES, Ivleva EI, Pearlson GD, Keshavan MS, Tamminga CA, Sweeney JA, Clementz BA. (2019). <u>Auditory steady-state EEG response across the schizo-bipolar spectrum.</u> *Schizophrenia Research, 209*, 218-226. PMID: 31080153

Bershad, AK, LM Mayo, K Van Hedger, F McGlone, SC Walker, **H de Wit** (2019) Effects of MDMA on attention to positive social cues and pleasantness of affective touch. *Neuropsychopharmacology*.

Attia E, Steinglass J, Walsh BT, Wang Y, Wu P, Schreyer C, **Wildes J**, Yilmaz Z, Guarda A, Kaplan A, Marcus M. Olanzapine versus placebo in adults with anorexia nervosa: a randomized clinical trial. Am J Psychiatry. 2019 Jun 1;176(6):449-456. PubMed PMID: 30654643.

Fanning JR, Coleman M, Lee R, **Coccaro EF**. Aggression subtypes in Intermittent Explosive Disorder: Implications for the NIMH Research Domain Criteria. J Psychiatric Res. 109:164-172, 2019.

MEDIA NOTES

Dr. Afzal: Talks about Munchausen by proxy cases with the Seattle Times on October 23rd https://www.seattletimes.com/seattle-news/health/moms-murder-case-raises-questions-about-what-doctors-knew/

Dr. King: Talks to Chicago Tribune about if traditional cessation methods will help people quit vaping http://www.chicagotribune.com/lifestyles/ct-life-quit-vaping-tt-20190918-spx763qhtnbrjb7fnfheig22ru-story.html

Dr. Fridberg: Dissusses a new App for CBT with TechCrunch on July 16th https://techcrunch.com/2019/07/16/quirk-wants-to-make-cognitive-behavioral-therapy-more-accessible/

Dr. Anam: Was on WBEZ Morning Shift to speak about Asian American Mental Health and Stigma https://www.wbez.org/shows/morning-shift-podcast/asian-american-communities-raising-awareness-removing-stigma-around-mental-health/2e1c8fa9-bd38-41a5-98d6-ccb4faa7297b

Dr. Asvat: Attended the Second Annual event for cancer survivors and caregivers. https://www.uchicagomedicine.org/forefront/cancer-articles/2019/may/second-annual-event-for-cancer-survivors-and-caregivers

GRANTS RECEIVED

Research Grants:

Dr. Jon Grant, Promentis Pharmaceuticals, "A Preliminary, Double Blind, Placebo-Controlled Study to Explore the Safety, Tolerability, and Activity of SXC-2023 in Adults with Moderate to Severe Trichotillomania (TTM)".

Dr. Karam Radwan, State of Illinois (LaRabida Children's Hospital), "Treatment and Medication Management"

Dr. Jon Grant, Genentech, "A Phase III, Randomized, Double -Blind, Placebo Controlled, Parallel Group, Multicenter, 52-week Efficacy and Safety Study of RO5285119 in Adults with Autism Spectrum Disorders with a 2 Year Open Label Extension"

Dr. Kathryn Keenan, NIH (Univ. of Pittsburgh), "Preconception stress exposure: Impact on pregnancy and offspring neurodevelopment"

CLINICAL PROGRAMS

Adult Psychiatry Programs:

Addiction Disorders Program*
Aggression Disorder Program*
Anxiety Disorder Program*
Eating Disorder Program*
Obesity Program
Personality Disorder Program*
Psychotic Disorder Program*
Treatment Resistant Depression Program*

Consultation-Liaison Psychiatry Adult Clinical Neuropsychology

Child & Adolescent Programs:

Mood & Anxiety Disorder Program*

ADHD and Disruptive Disorder Program*

Developmental Disorder Program*

Eating Disorder Program*

Inpatient Psychiatry
Consultation-Liaison Psychiatry
C&A Clinical Neuropsychology

*<u>Call Intake @ (773) 702-3858</u> Direct Line for Eating Disorder: 773-834-0362

MAJOR RESEARCH PROGRAMS

Addictive, Compulsive, & Impulsive Disorders (Dr. Grant)

Behavioral Genetic Studies of Aggression and Antisocial Behavior, and Twin Studies (Dr. Jacobson)

Behavioral Neuroscience Research Laboratory (Dr. Vezina)

Biologic & Pharmacologic Treatment Studies of Impulsive Aggression (Dr. Coccaro)

Biological and Treatment Studies of Nicotine and Alcohol Addiction (Dr. King)

Biological Studies of Stress and Personality (Dr. Lee)

Cognition Emotion Neuroscience Laboratory (Dr. Keedy)

Developmental Psychopathology (Dr. Keenan)

High Performance Electrical Neuroimaging Laboratory (Dr. Cacioppo)

Human Neuropsychopharmacology (Dr. de Wit)

Molecular Genetics of Mood & Psychotic Disorders (Dr. Gershon)

Eating Disorders (Dr. Jennifer Wildes)

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