

# Curriculum Vitae

**CORINA OANA BONDI, Ph.D.**

## **INFORMATII PERSONALE**

Nume, Prenume: BONDI, CORINA OANA  
Nume anterior: PETRE

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Data nașterii: 05/07/1981  
Sex: F  
Naționalitate: Română  
Cetățenie: România, SUA

## **POZITIE**

2014-prezent **Profesor (Assistant Professor)**, Departamentul de Medicină și Reabilitare Fizică, Centrul SAFAR pentru Cercetări în Reabilitare, Universitatea din Pittsburgh, SUA

## **EXPERIENȚĂ PROFESIONALĂ**

2012-2014 **Postdoctor Asociat**, Departamentul de Medicină și Reabilitare Fizică, Centrul SAFAR pentru Cercetări în Reabilitare, Universitatea din Pittsburgh, SUA

2009-2012 **Postdoctor Asociat**, Departamentul de Neuroștiință, Universitatea din Pittsburgh, SUA

## **EDUCATIE ȘI FORMARE**

2003-2009 **Doctorat în Neuro-Farmacologie**, Universitatea din Texas, Centrul pentru Științele Sănătății San Antonio (UTHSCSA), TX, SUA

2000-2003 Studii Universitare la Universitatea Muskingum, OH, SUA - **Magna Cum Laude**  
Licențe principale ("majors") în Neuroștiință, Fizică  
Licențe secundare ("minors") în Biologie, Chimie, Matematică, Psihologie

1999-2000 Universitatea de Medicină și Farmacie Craiova, România – absolventă anul I de studiu

1995-1999 Studii liceale la Liceul Teoretic "Mihai Eminescu" (fost Liceul Teoretic Nr. 2), profil Matematică, Călărași, România

1987-1995 Studii secundare clasele I-VIII la Școala Gimnazială "Nicolae Titulescu" (fostă Școala Generală Nr. 5), Călărași, România

## **ACTIVITATE ȘTIINȚIFICĂ**

### **I. FUNCȚII ÎN FORURI ȘI SOCIETĂȚI ȘTIINȚIFICE**

2015-2018: Secretar al *International Behavioral Neuroscience Society (IBNS)*

2015-prezent: Membră în Comitetul de Educație și Formare al *International Behavioral Neuroscience Society*

2013-2014 și 2010-2011: Membră în Consiliul Reprezentativ pentru Formabili al *International Behavioral Neuroscience Society*

2013-prezent: Membră al *National Neurotrauma Society and Women in Neurotrauma Research*

2012-2014: Vicepreședinte/Președinte al Comitetului de Admitere în *International Behavioral Neuroscience Society*

2008-2012: Vicepreședinte/Președinte al Comitetului de Comunicare din *International Behavioral Neuroscience Society*

2003-prezent: Membră a *Society for Neuroscience*

2000-prezent: Membră a *New York Academy of Sciences (NYAS)*

### **II. FUNCȚII ÎN COMITETE DE REDACȚIE ALE UNOR JURNALE ȘTIINȚIFICE**

2014-prezent: Editor Academic pentru *Medicine* (Impact Factor: 5,723)

2013-prezent: Editor Academic la secțiunile Reabilitare, Farmacologie, Neuroștiință, Sănătate Publică pentru *BioMed Research International* (Impact Factor: 2,880)

### **III. REFERENT LA PUBLICAȚII ȘTIINȚIFICE**

Journal of Neurotrauma; Journal of Neuroscience; Experimental Neurology; Pharmacology, Biochemistry and Behavior; Frontiers in Behavioral Neuroscience; PLOS ONE; BMC Neuroscience; Canadian Journal of Physiology and Pharmacology; Neuroscience; Brain Research; Behavioural Brain Research; Archives of Medical Science; Journal of Neural Transmission; The International Journal of Neuropsychopharmacology

### **IV. PREMII ȘI DISTINCȚII**

2016

Prezentare orală la Societatea Nord-Americană de Trauma Cerebrală (NABIS) în Tampa, Florida, Aprilie 2016

Prezentare poster ("Executive function deficits following frontal experimental brain injury in rats") la Simpozionul Internațional al Societății de Neurotrauma în Cape Town, Africa, Feb 2016

2015

***Distinsă cu titlul de "Cetățean de Onoare al Municipiului Călărași", prin Hotărâre a Consiliului Local, pentru merite deosebite în întreaga activitate desfășurată și reprezentarea la nivel internațional a Municipiului Călărași, România.***

World Congress of Neurology (WCN) Travel Bursary - 22<sup>nd</sup> World Congress of Neurology, Santiago, Chile

Early Career Award - International Behavioral Neuroscience Society 24<sup>th</sup> Annual Meeting, Victoria, British Columbia, Canada

2014

Travel Award - Society for Neuroscience/ Burroughs Wellcome Fund Postdoctoral Fellow Award for SfN Annual Meeting – Washington, DC  
Best Rehabilitation Research Award, PostDoctoral/Fellow category, 10th Annual Rehabilitation Institute Research Day, University of Pittsburgh, Pittsburgh, PA  
The Nancy Caroline Fellow Award in Emergency and Critical Care Medicine Research, 12th Annual Safar Center for Resuscitation Research Multi-departmental Trainees Research Day, University of Pittsburgh, Pittsburgh, PA  
Travel Award - The 32<sup>nd</sup> Annual Symposium of the National Neurotrauma Society, San Francisco, CA  
Travel Grant - The 11<sup>th</sup> International Neurotrauma Society Symposium, Budapest, Hungary  
Travel Grant - International Behavioral Neuroscience Society 23<sup>rd</sup> Annual Meeting, Student Representative to Council Travel Award – Las Vegas, NV

***Distinsă cu "Cheia Oraşului" de către Primăria Călăraşi pentru excelenţă profesională şi reprezentarea cu cinste, la nivel internaţional, a Municipiului Călăraşi, România.***

2013

Top Poster Presentation Award, 11th Annual Safar Center for Resuscitation Research Multi-departmental Trainees Research Day, University of Pittsburgh, Pittsburgh, PA  
Student Council Representative-elect, International Behavioral Neuroscience Society (2013-2014)  
Nominated for the Nancy Caroline Fellow Award, 11th Annual Safar Center for Resuscitation Research Multi-departmental Trainees Research Day, University of Pittsburgh, Pittsburgh, PA  
Nominated for the Student Representative to Council, Women in Neurotrauma Research (WiNTR)

2011

Travel Award - Society for Neuroscience/Eli Lilly & Co. Chapters Postdoctoral Award for SfN Annual Meeting – Washington, DC  
Travel Grant - International Behavioral Neuroscience Society 20<sup>th</sup> Annual Meeting, Student Representative to Council Travel Award – Steamboat Springs, CO

2010

Travel Award –5<sup>th</sup> Amygdala Conference, “How Stress Shapes the Mind”, Uniformed Services University, Bethesda, MD

2009

Travel Award –4<sup>th</sup> Amygdala Conference, “Molecules in a Fearful Mind”, Uniformed Services University, Bethesda, MD  
Travel Award - FENS Featured Regional Meeting: 9th International Congress of the Polish Neuroscience Society, Warsaw, Poland, September 2009

2008

Outstanding Student Poster Presentation– 15<sup>th</sup> Annual Graduate Student Symposium, Pharmacology Dept., UTHSCSA  
Travel Award – International Behavioral Neuroscience Society 17<sup>th</sup> Annual Meeting – St. Thomas, US Virgin Islands, June 2008  
Travel Award – Third International Conference on Cognitive Science, Moscow, Russia, June 2008 – did not attend due to timing conflict

2007

Travel Award – Society for Neuroscience/Eli Lilly & Co./Committee of Women in Neuroscience Graduate Student Award for SfN Annual Meeting – San Diego, CA  
3<sup>rd</sup> Place Poster – Center of Biomedical Neuroscience 5<sup>th</sup> Annual Retreat, UTHSCSA  
Graduate Student of the Year Award – Department of Pharmacology, UTHSCSA  
Travel Award – RIKEN Brain Science Institute Summer Lecture Course, Waco City, Japan, July/August

Travel Award – Okinawa Computational Neuroscience Course, Okinawa, Japan – did not attend due to timing conflict

2007, 2006

Nominated as the Pharmacology Dept. Student Representative for the UTHSCSA Presidential Ambassador Scholar Award

2006

Travel Award - Society for Neuroscience/Eli Lilly & Co. Chapters Graduate Student Award for SfN Annual Meeting – Atlanta, GA

Travel Award – European College of Neuropsychopharmacology (ECNP) Workshop for Young Scientists, Nice, France

2004

1<sup>st</sup> Place Poster – 11<sup>th</sup> Annual Graduate Student Symposium, Pharmacology Dept., UTHSCSA

2000-2003

**John Glenn Full Tuition Scholarship**, the highest academic award at Muskingum College, OH

## V. ALTE TITLURI ȘI ONORURI

2000-2003: Membră în *American Scholars National Honor Society*, *American Association of Physicists in Medicine*, *Muskingum College Neuroscience Club*, *World Vision Club of International Students*

Președinte al *Muskingum College Physics Club*

2000: **Primul membru din județul Călărași al “Fundației Naționale Henri Coandă Pentru Sprijinirea Tinerilor Supradotați”**

Nov. 1999: Reportaje difuzate pe principalele canale de televiziune și articole în presa centrală din România ca urmare a admiterii la 7 facultăți (Medicină, Automatică și Calculatoare, Cibernetică respectiv Fizică) prin susținerea a 9 probe de examen în 11 zile, la 4 discipline (matematică, fizică, chimie și biologie), în 4 orașe ale țării.

1999: **“Omul Anului 1999 în județul Călărași” – primul titlu din această categorie acordat de Jurnalul de Călărași**

1994-1999: Premiul III în 1994 și 1995 și Mențiune în 1996 la Olimpiada Națională de Fizică, România

## VI. ACTIVITĂȚI EXTRAPROFESIONALE, DE VOLUNTARIAT ȘI CARITABILE

2015-prezent: Acordarea câte unei burse anuale în valoare de 100 USD fiecărui elev din clasele V-XII de la **Liceul Mihai Eminescu și de la Școala Gimnazială Nicolae Titulescu din Călărași**, calificat la etapa națională a Olimpiadelor de Matematică, Fizică sau Biologie

2014-prezent: Referent pentru aplicațiile de bursă ale studenților/postdoctorilor la *Society for Advancement of Hispanics/Chicanos and Native Americans in Science (SACNAS)*

Sept. 2014: Profesor mentor la *LIFE Technologies International Women's Influential Network (IWIN)*.

2012-prezent: Participarea la evenimente de popularizare în cadrul *Society for Neuroscience Pittsburgh Chapter/Center for Neuroscience* de la Universitatea din Pittsburgh și realizarea de prezentări pentru elevii de gimnaziu și de liceu. Mentorarea studenților pentru a fi co-prezentatori ai secțiunilor “Leziune cerebrală traumatică” și “Stres și Anxietate” din cadrul “*Programului pentru Creier*”

2009- 2011: Membră în Comitetul de orientare la evenimentele *International Behavioral Neuroscience Society – SfN*

## VII. EXPERIENȚĂ ACADEMICĂ DE PREDARE

- 2015 (Feb) – Lecture: "The attentional set-shifting test as a novel cognitive behavioral task after experimental traumatic brain injury". NROSCI 1027 - Topics in Neuroscience: Pro Seminar, University of Pittsburgh, Pittsburgh, PA
- 2014 (Oct-Nov) – MS-1 Intro to Medical Decision Making small group facilitator, Scientific Reasoning and Medicine Block, School of Medicine, University of Pittsburgh, Pittsburgh, PA
- 2014 (Oct) – Lecture: "Old dog, new tricks: The attentional set-shifting test as a novel cognitive behavioral task after experimental traumatic brain injury". NROSCI 1027 - Topics in Neuroscience: Pro Seminar, University of Pittsburgh, Pittsburgh, PA
- 2011 (Oct), 2012 (Jan) – Lecture: "There's something fishy going on: the importance of omega-6/omega 3 fatty acid ratio in the brain". NROSCI 1027 - Topics in Neuroscience: Pro Seminar, University of Pittsburgh, Pittsburgh, PA
- 2010 (April) – Lecture: "Depression and Antidepressants". NROSCI 0081 – Drugs and Behavior, University of Pittsburgh, Pittsburgh, PA
- 2008 (Nov) – Lectures: "The Nervous System". BIOL 1421 – General Human Anatomy and Physiology I, Our Lady of the Lake University, San Antonio, TX
- 2008 (April-May) – Lectures: "Drugs acting on the Central Nervous System" unit, covering General Anesthetics, Sedative-Hypnotic and Anxiolytic Drugs, Antidepressants, Antipsychotics (Neuroleptics), Anticonvulsants, Antiparkinson Drugs and Opioid (Narcotic) Analgesics. BIOL 5493 – Introduction to Pharmacology course, Our Lady of the Lake University, San Antonio, TX
- 2008 (February) – Lecture: "Drugs for Management of Depression and Bipolar Disorder" – Pharmacology course, Dental Hygiene Program, UTHSCSA
- 2003-2004 - Mentoring students on a weekly basis through the Health Careers High School, San Antonio and UTHSC at San Antonio career mentor program
- 2000-2003 – Tutoring students, grading papers, and supervising student research projects for the Muskingum College Physics Department

## VIII. EXPERIENȚĂ ÎN FORMAREA STUDENȚILOR

2015-prezent: Ihuoma Njoku, BS, MS2, Effect of galantamine on attentional set-shifting performance after experimental brain trauma; summer certificate trainee, Institutional Training Grant in Aging, Aging Institute, Univ. Pittsburgh

2014-prezent: Megan LaPorte, Attentional set-shifting performance and cognitive neurorehabilitation after TBI, Neuroscience, Univ. Pittsburgh

2014: Kristin Free, Attentional set-shifting performance and cognitive neurorehabilitation after TBI, Neuroscience, Univ. Pittsburgh

2013: Rachael Abraham, Histological assessments after TBI, Univ of Rochester (CNUP Summer Fellow)

2013: Vincent Mattiola, Histological assessments after TBI, Neuroscience, Univ. Pittsburgh

2013-prezent: Heather Tennant, Attentional set-shifting performance and cognitive neurorehabilitation after TBI, Neuroscience, Univ. Pittsburgh

2011: Alexander Burkowski, GABA-A modulation of operant behavior, Neuroscience, Univ. Pittsburgh

2008- 2009: Julianne Jett - Modulatory role of norepinephrine in prefrontal cortex after chronic stress, Pharmacology, UTHSCSA

2006: Gustavo Rodriguez - Supervised summer internship project entitled "Prevention of chronic stress-induced cognitive deficits in male rats by chronic treatment with desipramine and escitalopram", Pharmacology, UTHSCSA

## IX. EXPERIENȚĂ DE CERCETARE ÎN LABORATOR

- Immunohistochemistry (Free Floating); *In vivo* microdialysis with electrochemical detection by HPLC; Western blotting; *In vivo* single unit electrophysiological recordings; *In vivo* high-speed chronoamperometry; Radioimmunoassay procedures (corticosterone, ACTH, cortisol); Cell counting and image analysis using NIH Image procedures.
- Stereotaxic animal surgery; controlled cortical impact injury; bilateral brain microinjections; osmotic minipump implants (intraperitoneal and subcutaneous); acute and chronic brain region-specific chemical lesioning; jugular catheterization; timed plasma retrieval; transcardial perfusions; cryotome and vibrating microtome rat brain slicing and histology
- Behavioral tests: attentional set-shifting test (operant, digging and T-maze paradigms); elevated plus-maze test; 3-choice serial reaction time task; novel object recognition test, return to dam test, shock-probe defensive burying test; beam-balance and beam-walk tests; fear conditioning; Animal stress procedures: chronic unpredictable stress; social defeat procedure; chronic cold stress; immobilization stress
- Nucleic acid and protein isolation and analysis; cloning and expression analysis of bacterial genes in plasmid vectors; Polymerase chain reaction (PCR); Reverse transcriptase-PCR; primer design; immunohistochemistry for light and fluorescence microscopy
- *Summer 2002* – Internship CNUP at University of Pittsburgh, Department of Pathology, investigating the generation of recombinant adenoviral vectors
- *Summer 2001- January 2002* – Internship SURP at University of Pittsburgh, Department of Pathology, studying receptor expression for insulin, ghrelin and leptin in the human brain

## X. DEZVOLTARE PROFESIONALĂ CONTINUĂ

- 2014: Participare la workshop-urile "Developing a teaching philosophy statement", "Designing in-class activities", "Leading effective classroom discussions", "Syllabus construction", "Encouraging student participation", "Seven uses for technology in the large lecture class", "Teaching a six week course" în cadrul Center for Instructional Development and Distance Education al *University of Pittsburgh*

## XI. PUBLICAȚII

### Articole în jurnale de specialitate:

27. Fidan EG, Lewis J, Kline AE, Garman RH, Alexander H, Cheng JP, **Bondi CO**, Clark RSB, Dezfulian CC, Kochanek PM, Kagan VE, Bayir H (2014). Repetitive mild traumatic brain injury in the developing brain: Effects on long-term functional outcome and neuropathology. *J Neurotrauma* PMID: 26214116 (Epub ahead of print).

26. **Bondi CO**, Klitsch KC, Leary J, Kline AE (2014). Environmental enrichment as a viable neurorehabilitation strategy for experimental traumatic brain injury. *J Neurotrauma* 31(10): 873-888.
25. **Bondi CO**, Cheng JP, Tennant HM, Monaco CM, Kline AE (2014). Old Dog, New Tricks: the attentional set-shifting test as a novel cognitive behavioral task after controlled cortical impact injury. *J Neurotrauma* 31(10): 926-937.
24. **Bondi CO**, Yelleswarapu NK, Day-Cooney J, Memarzadeh K, Folweiler KA, Monaco CM, Cheng JP, Tehranian-DePasquale R, Bou-Abboud CE, Kline AE (2015). Donepezil attenuates the efficacy of environmental enrichment on functional outcome after experimental traumatic brain injury (in preparation).
23. **Bondi CO**, Semple BD, Noble-Haesslein LJ, Osier ND, Carlson SW, Dixon CE, Giza CC, Kline AE (2014). Found in translation: understanding the biology and behavior of experimental traumatic brain injury. *Neurosci Biobehav Revs* doi: 10.1016/j.neubiorev.2014.12.004. [Epub ahead of print]
22. Park JC, **Bondi CO**, Wood J, Del Arco A, Moghaddam B (2015). A neuronal substrate for anxiety evoked perturbation of behavioral flexibility. *Nature Neurosci.* (in review).
21. Cheng JP, Edwards CM, **Bondi CO**, Spitz A, Matter A, Kline AE (2014). The efficacy of 5-HT1A receptor agonists in the treatment of experimental traumatic brain injury (in preparation).
20. Kline AE, Leary JB, **Bondi CO**. Combinational therapies after experimental traumatic brain injury: is more better? (in preparation).
19. Phelps TI, **Bondi CO**, Rashid A, Shaw KE, McAloon RL, Olugabade YT, Ehrenberg KM, Cheng JP, Kline AE (2014). Divergent long-term consequences of chronic treatment with haloperidol, risperidone, and bromocriptine on traumatic brain injury-induced cognitive deficits. *J Neurotrauma* 15;32(8):590-7.
18. Phelps TI, **Bondi CO**, McAloon RL, Yelleswarapu NK, Garcia AN, Shah MA, Kline AE. (2014). Acquisition of spatial learning is facilitated in brain-injured rats treated with the atypical antipsychotic drug aripiprazole. *Neurosci Lett* (in review).
17. **Bondi CO**, Taha AY, Tock JL, Totah NK, Chewon Y, Torres GE, Rapoport SI, Moghaddam B (2014). Dietary deficiency in n-3 polyunsaturated fatty acids produces behavioral alterations in consecutive generations of adolescent and adult rats. *Biological Psychiatry* 75(1):38-46.
16. Shaw K, **Bondi CO**, Light S, Massimino L, McAloon R, Monaco C, Kline AE (2013). Donepezil is ineffective in promoting motor and cognitive benefits after controlled cortical impact injury in male rats. *J Neurotrauma* 30(7):557-64.
15. Matthews M, **Bondi C**, Torres G, Moghaddam B (2013). Reduced presynaptic dopamine activity in adolescent dorsal striatum. *Neuropsychopharmacol* 38(7):1344-51.
14. Perhson AL, **Bondi CO**, Totah NKB, Moghaddam B (2013). The influence of NMDA and GABA<sub>A</sub> receptors and glutamic acid decarboxylase (GAD) activity on attention. *Psychopharmacology* 225(1):31-9.
13. **Bondi C**, Matthews M, Moghaddam B (2012). Glutamatergic animal models of schizophrenia. *Current Pharmaceutical Design* 18(12):1593-604.
12. **Bondi CO**, Jett DJ, Morilak DA (2010). Beneficial effects of desipramine on cognitive function of chronically stressed rats are mediated by alpha1-adrenergic receptors in medial

prefrontal cortex. *Progress in Neuro-Psychopharmacology & Biological Psychiatry* 34(6):913-23.

11. **Bondi CO**, Rodriguez G, Gould GG, Frazer A, Morilak DA (2008). Chronic unpredictable stress induces a cognitive deficit and anxiety-like behavior in rats that is prevented by chronic antidepressant drug treatment. *Neuropsychopharmacology* 33(2):320-31.
10. Morilak DA, **Bondi CO**, Lapiz-Bluhm MDS (2008). Effects of chronic stress, monoamines and antidepressant drugs on cognitive function in prefrontal cortex. *Eur. Neuropsychopharmacology* 18, Suppl 4: S185.
9. **Bondi CO**, Barrera G, Lapiz MD, Bedard T, Mahan A, Morilak DA (2007). Noradrenergic facilitation of shock-probe defensive burying in lateral septum of rats, and modulation by chronic treatment with desipramine. *Prog Neuropsychopharmacol Biol Psychiatry* 31(2):482-95.
8. Lapiz-Bluhm MD, **Bondi CO**, Doyen J, Rodriguez G, Bedard-Arana T, Morilak DA (2008). Behavioral assays to model cognitive and affective components of depressive and anxiety in rats. *J Neuroendocrinol.* 20(10):1115-37.
7. Zhao Z, Baros AM, Zhang H, Lapiz MD, **Bondi CO**, Morilak DA, O'Donnell JM (2008). Norepinephrine transporter regulation mediates the long-term behavioral effects of the antidepressant desipramine. *Neuropsychopharmacology* 33(13):3190-200.
6. Lapiz MD, **Bondi CO**, Morilak DA (2007). Chronic treatment with desipramine improves cognitive performance in rats in an attentional set shifting test. *Neuropsychopharmacology* 32(5):1000-10.
5. Lapiz MD, Zhao Z, **Bondi CO**, O'Donnell JM, Morilak DA (2007). Blockade of autoreceptor-mediated inhibition of norepinephrine release by atipamezole is maintained after chronic reuptake inhibition. *Intl Journal of Neuropsychopharmacol* 10(6):827-33.
4. Morilak DA, Barrera G, Echevarria DJ, Garcia AS, Hernandez A, Ma S and **Petre CO** (2005). Role of brain norepinephrine in the behavioral response to stress. *Prog Neuropsychopharmacol Biol Psychiatry.* 29(8): 1214-24.
3. **Petre CO**, Barrera G, Morilak DA (2005). Noradrenergic facilitation of shock-probe defensive burying in lateral septum. ECNP Annual Workshop, Nice, France, *Eur Neuropsychopharmacol* 15 (Suppl. 1): S43.
2. Barrera G, Mahan A, **Petre CO** and Morilak DA (2004). Time-dependent effects of chronic DMI treatment on shock-probe defensive burying in rats. ACNP Annual Meeting, San Juan, Puerto Rico, *Neuropsychopharmacol.* 29(Suppl. 1): S157.
1. Moraru D, **Petre CO** (2000). *Historical Notes for the Special Relativity Theory*. The Romanian Academy Journal "Academica", no. 1-2 (121-122).

#### Capitole în Manuale de specialitate:

**Bondi CO**, Tehranian-DePasquale R, Cheng JP, Monaco CM, Griesbach GS, Kline AE (2015). Rehabilitative paradigms after experimental brain injury: relevance to human neurotrauma. In: *"Brain Neurotrauma: Molecular, Neuropsychological, and Rehabilitation Aspects"*. Eds: FH Kobeissy CRC Press, Boca Raton, FL, Chapter 34, pps. 489-504. PMID: 26269889

#### Cărți:



Moraru D, **Petre CO** (2001). *Eureka...The Superlight Speed Physics and Divinity*. Călărăși, Romania, Editura AGORA (142 pagini)

## XII. GRANTURI PENTRU CERCETARE

### *Primate*

- Grant de cercetare de la Institutul de Rehabilitare din Pittsburgh (2016-2018)

Grant Number	Grant Title	Role in Project and % Effort	Years	Source/Amount
UPP	Interaction of chronic unpredictable stress and environmental enrichment on cognitive and depressive-like behaviors following traumatic brain injury	PI; 15% 1.8 CM	2015-2016	UPP/UPMC Academic Foundation;

### *În așteptare*

Grant Number	Grant Title	Role in Project and % Effort	Years	Source/Amount
R03	Sustained attention and executive functioning after brain trauma	PI; 20% 2.4 CM	2015-2017	NIH;
YI Grant	Investigating behavioral and molecular outcomes of prefrontal cortical impairment after brain trauma	PI; 15% 1.8 CM	2016-2018	NARSAD;

### *Granturi parțiale*

2010-2012: Postdoctoral Scholar on the NIH Training Grant in the Neurobiology of Psychiatric Disorders (T32 MH18273-24)

2007-2008: San Antonio Neuroscience Alliance Research Award

## XIII. PREZENTĂRI

### **Prelegeri și prezentări ca invitat:**

2015 - *Unraveling frontal lobe dysfunction after traumatic brain injury using preclinical models*. Early Career Award oral presentation, International Behavioral Neuroscience Society 24th Annual Meeting, Victoria, British Columbia, Canada

2015 - *Combining enrichment and citalopram ameliorates attentional set-shifting performance after TBI*. Plenary Session Co-chair – Executive Function after Experimental and Clinical TBI. The 33<sup>rd</sup> Annual Symposium of the National Neurotrauma Society, Santa Fe, New Mexico

2015 - *Investigating frontal lobe dysfunction after brain trauma using preclinical models*. The Department of Physical Medicine and Rehabilitation Panther Rehab Rounds, University of Pittsburgh, Pittsburgh, PA

2014 - *Old dog, new tricks: The attentional set-shifting test as a novel cognitive behavioral task after controlled cortical impact injury*. International Behavioral Neuroscience Society 23<sup>rd</sup> Annual

- Meeting, Special Symposia Co-chair on “Traumatic brain injury: Laboratory and clinical perspectives”, Las Vegas, NV
- 2014 - *A combined therapeutic regimen of environmental enrichment and citalopram ameliorate attentional set-shifting performance after brain trauma.* Safar Center for Resuscitation Research, University of Pittsburgh, Pittsburgh, PA
- 2014 - *Attentional set-shifting after brain trauma is restored by a preclinical model of neurorehabilitation.* 10th Annual Rehabilitation Institute Research Day, University of Pittsburgh, Pittsburgh, PA
- 2014 - *Environmental enrichment restores attentional set-shifting and behavioral flexibility after controlled cortical impact injury in male rats.* Plenary Session - Rehabilitation in Neurotrauma. The 11<sup>th</sup> International Neurotrauma Society Symposium, Budapest, Hungary
- 2014 - *Attentional set-shifting and behavioral flexibility after controlled cortical impact injury are restored by a preclinical model of rehabilitation.* Safar Center for Resuscitation Research, University of Pittsburgh, Pittsburgh, PA
- 2014 - *Attentional set-shifting after brain trauma is restored by a preclinical model of neurorehabilitation.* Safar Center for Resuscitation Research, University of Pittsburgh, Pittsburgh, PA
- 2014 - *Environmental enrichment attenuates impairments of cognitive performance in an attentional set-shifting test after traumatic brain injury.* Safar Center for Resuscitation Research, University of Pittsburgh, Pittsburgh, PA
- 2014 - *Traumatic brain injury-induced deficits of cognitive flexibility and attentional set-shifting are attenuated by environmental enrichment.* Safar Center for Resuscitation Research, University of Pittsburgh, Pittsburgh, PA
- 2013 - *The attentional set-shifting test: A novel cognitive behavioral task after controlled cortical impact injury.* Safar Center for Resuscitation Research Experimental Brain Injury Meeting, University of Pittsburgh, Pittsburgh, PA
- 2013 - *The attentional set-shifting test: A novel cognitive behavioral task after controlled cortical impact injury.* Department of Physical Medicine and Rehabilitation Research Faculty Meeting, University of Pittsburgh, Pittsburgh, PA
- November 2012; January, April, July, October 2013; July, September 2014; January 2015 - *Presented recently published studies in the traumatic brain injury field at the Neurointensive Care and Resuscitation Research Journal Club.* Safar Center for Resuscitation Research, University of Pittsburgh
- 2012 - *Dietary deficiency in omega-3 fatty acids produces alterations in rat behavior and brain markers of dopamine function.* International Behavioral Neuroscience Society 21<sup>st</sup> Annual Meeting, Special Symposia Chair on “Polyunsaturated Fatty Acids”, Kona, Hawaii, HI
- 2009 - *Chronic stress-induced alterations in noradrenergic modulation of cognition in prefrontal cortex.* The Sam and Rose Stein Institute for Research on Aging, University of California San Diego, San Diego, CA

- 2008 - *Performance on an attentional set-shifting test induces fos expression in rat prefrontal cortex.* International Behavioral Neuroscience Society 17<sup>th</sup> Annual Meeting, Student Travel Award Slide Blitz, St. Thomas, USVI
- 2008 - *Stress reactivity of the brain noradrenergic system and its relevance to psychiatric disorders.* “The Dr. Homer A. Anderson Lecture Series” – Muskingum College Undergraduate Research and Scholarship Week, New Concord, OH
- 2007 - *Stress reactivity of the brain noradrenergic system and its relevance to stress adaptation and vulnerability.* 14<sup>th</sup> Annual Grad Student Symposium, Dept. Pharmacology, UTHSCSA
- 2007 - *Chronic unpredictable stress induces a cognitive deficit and anxiety-like behavior in rats that is prevented by chronic antidepressant drug treatment.* San Antonio Neuroscience Alliance Annual Retreat

### Lucrări științifice prezentate la conferințe și simpozioane:

47. LaPorte MJ, Tennant HM, Free KE, Cheng JP, Kline AE, **Bondi CO** (2015). *Combining environmental enrichment and the antidepressant drug, citalopram, improves executive function after brain trauma.* 11th Annual Rehabilitation Institute Research Day, Pittsburgh, PA
46. Tennant HM, LaPorte MJ, Cheng JP, Kline AE, **Bondi CO** (2015). *A combined therapeutic regimen of environmental enrichment and citalopram improves attentional set-shifting performance after brain trauma.* 13th Annual Safar Symposium, Pittsburgh, PA
45. **Bondi CO**, Cheng JP, Tennant HM, Lajud N, Free KE, Monaco CM, Leary JB, Kline AE (2014). *Attentional set-shifting after brain trauma is restored by a preclinical model of neurorehabilitation.* Program No. 225.20. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online.
44. Greene AM, Mattiola VV, Leary JB, Carlson LJ, Cheng JP, Monaco CM, **Bondi CO**, Kline AE (2014). *Manipulating initiation time and duration of environmental enrichment exposure after traumatic brain injury to more accurately mimic clinical rehabilitation.* Program No. 225.21. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online.
43. Free KE, Leary JB, Vozar AM, Kim BS, Stevens SD, Edwards CM, Cheng JP, **Bondi CO**, Kline AE (2014). *Lorazepam does not negatively impact neurobehavioral outcome after experimental brain trauma.* Program No. 225.19. 2014 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2014. Online.
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40. **Bondi CO**, Cheng JP, Tennant HM, Lajud N, Free KE, Monaco CM, Leary JB, Kline AE (2014). *Environmental enrichment restores cognitive performance in an attentional set-shifting test after traumatic brain injury.* 32nd Annual National Neurotrauma Symposium, San Francisco, CA

39. Leary JB, LaPorte MJ, Ogunsanya EA, Greene AM, Free KE, Cheng JP, **Bondi CO**, Kline AE (2014). *The antipsychotic drug haloperidol reduces the efficacy of environmental enrichment after traumatic brain injury*. International Behavioral Neuroscience Society 23<sup>th</sup> Annual Meeting, Las Vegas, NV
38. Mattiola VV, Leary JB, Greene AM, Cheng JP, Monaco CM, **Bondi CO**, Kline AE (2014). *Environmental enrichment as a preclinical model of neurorehabilitation*. International Behavioral Neuroscience Society 23<sup>th</sup> Annual Meeting, Las Vegas, NV
37. **Bondi CO**, Cheng JP, Tennant HM, Lajud N, Free KE, Monaco CM, Leary JB, Kline AE (2014). *Attentional set-shifting after brain trauma is restored by a preclinical model of neurorehabilitation*. 12<sup>th</sup> Annual Safar Symposium, Pittsburgh, PA;
36. **Bondi CO**, Tennant HM, Cheng JP, Monaco CM, Kline AE (2013). *An attentional set-shifting test reliably and sensitively reveals impairments in executive function and behavioral flexibility after controlled cortical impact injury*. Program No. 628.05. 2013 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2013. Online.
35. Tehranian-DePasquale R, Yelleswarapu NK, Day-Cooney J, Bou-Abboud C, Monaco CM, Cheng JP, **Bondi CO**, Kline AE (2013). *Donepezil reduced the efficacy of environmental enrichment on cognitive performance after experimental traumatic brain injury*. Program No. 628.20. 2013 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2013. Online.
34. **Bondi CO**, Tennant HM, Cheng JP, Monaco CM, Kline AE (2013). *An attentional set-shifting test reliably and sensitively reveals impairments in executive function and behavioral flexibility after controlled cortical impact injury*. Poster A106, 31st Annual National Neurotrauma Symposium, Nashville, TN; *J Neurotrauma*. 30(15): A-1-A-183
33. Tehranian-DePasquale R, Yelleswarapu NK, Day-Cooney J, Bou-Abboud C, Monaco CM, Cheng JP, **Bondi CO**, Kline AE (2013). *Donepezil reduced the efficacy of environmental enrichment on cognitive performance after experimental traumatic brain injury*. Poster A170, 31st Annual National Neurotrauma Symposium, Nashville, TN; *J Neurotrauma*. 30(15): A-1-A-183
32. **Bondi CO**, Tennant HM, Cheng JP, Monaco CM, Kline AE (2013). *An attentional set-shifting test reliably and sensitively reveals impairments in executive function and behavioral flexibility after controlled cortical impact injury*.  
11<sup>th</sup> Annual Safar Symposium, Pittsburgh, PA;  
9<sup>th</sup> Annual Rehabilitation Institute Research Day, Pittsburgh, PA;  
University of Pittsburgh Postdoctoral Association Annual Retreat, Pittsburgh, PA;  
Center for Neuroscience at University of Pittsburgh 27<sup>th</sup> Annual Retreat, Oglebay, WV.
31. Park J, **Bondi CO**, del Arco A, Moghaddam B (2013). *Impaired cognitive function under anxiety induced by FG-7142 and its prefrontal neural correlates*. Center for Neuroscience at University of Pittsburgh 27<sup>th</sup> Annual Retreat, Oglebay, WV.
30. **Bondi CO**, Tock JL, Totah NKB, Taha AY, Cheon Y, Rapoport SI, Moghaddam B (2012). *Effects of omega-3 polyunsaturated fatty acid dietary deficiency on instrumental learning and cognitive set-shifting in subsequent generations of rats*. Program No. 701.05. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.
29. Park J, Li J, **Bondi CO**, Kopell N, Borgers C, Moghaddam B (2012). *Gaba-a receptor regulation of pyramidal cells in awake cortex and a derived neurophysiologically realistic*

*model*. Program No. 811.08. 2012 Neuroscience Meeting Planner. New Orleans, LA: Society for Neuroscience, 2012. Online.

28. Li J, Park J, **Bondi CO**, Moghaddam B, Kopell N, Börgers C (2012). *Gamma rhythms, theta rhythms, and baths of inhibition*. 2012 Collaborative Research in Computational Neuroscience (CRCNS) PI Meeting, Washington University, St. Louis, MO
27. **Bondi CO**, Tock JL, Totah NKB, Taha AY, Rapoport SI, Moghaddam B (2011). *Dietary deficiency in n-3 polyunsaturated fatty acids produces behavioral changes in rat pups and adolescents*. Program No. 777.20. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
26. Park J, **Bondi CO**, Wood J, Sturman DA, Kreisler AD, Moghaddam B (2011). *Effects of benzodiazepine inverse agonist on prefrontal cortical electrophysiology in freely moving adolescent versus adult rats*. Program No. 718.07. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
25. **Bondi CO**, Burkowski AJ, Del Arco A, Wood J, Moghaddam B (2011). *The effect of anxiogenics on single unit activity, local field potential oscillations and behavioral flexibility in freely moving rats*. International Behavioral Neuroscience Society 20<sup>th</sup> Annual Meeting, Steamboat Springs, CO
24. **Bondi CO**, Wood J, Del Arco A, Moghaddam B (2010). *The effect of anxiogenics on single unit activity and local field potential oscillations in prefrontal cortex of freely moving rats*. Program No. 697.23. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.
23. Del Arco A, **Bondi CO**, Burkowsky AJ, Moghaddam B (2010). *The effect of anxiogenics, corticosterone and fear conditioning on attention and behavioral flexibility in rats*. Program No. 697.22. 2010 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2010. Online.
22. **Bondi CO**, Wood J, Burkowsky AJ, Moghaddam B (2010). *The effect of anxiogenics on preparatory attention, cognitive set-shifting capability and single unit activity in prefrontal cortex of freely moving rats*. 5<sup>th</sup> Amygdala Conference, Uniformed Services University, Bethesda, MD
21. **Bondi CO**, Jett DJ, Morilak DA (2009). *Presynaptic and postsynaptic effects of noradrenergic effects of noradrenergic function in an attentional set-shifting test*. FENS-sponsored Polish Neuroscience Society meeting, Warsaw, Poland
20. **Bondi CO**, Jett DJ, Morilak DA (2009). *Noradrenergic modulation of cognitive function in rat medial prefrontal cortex remains intact after chronic unpredictable stress*. Program No. 777.7. 2009 Neuroscience Meeting Planner. Chicago, IL: Society for Neuroscience, 2009. Online.
19. **Bondi CO**, Jett DJ, Morilak DA (2008). *Effects of acute atipamezole treatment on performance in an attentional set-shifting test after chronic unpredictable stress*. Program No. 195.9. 2008 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2008. Online.
18. **Bondi CO**, Jett DJ, Morilak DA (2008). *Effects of acute atipamezole treatment on performance in an attentional set-shifting test after chronic unpredictable stress*. Center of Biomedical Neuroscience 6<sup>th</sup> Annual Retreat, UTHSCSA
17. **Bondi CO**, Morilak DA (2008). *Performance on an attentional set-shifting test induces fos expression in rat prefrontal cortex*. International Behavioral Neuroscience Society 17<sup>th</sup> Annual Meeting, St. Thomas, USVI

16. **Bondi CO**, Morilak DA (2007). *Performance on an attentional set-shifting test induces fos expression in rat prefrontal cortex*. Program No. 643.11. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.
15. Bedard T, **Bondi CO**, Morilak DA (2007). *Noradrenergic and serotonergic modulation of active and passive behavior in the shock-probe defensive burying test*. Program No. 734.10. 2007 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2007. Online.
14. **Bondi CO**, Gould GG, Lu XY, Frazer A, Morilak DA (2006). *Chronic unpredictable stress induces a cognitive deficit and anxiety-like behavior in rats*. Program No. 155.8. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.
13. Zhao Z, Zhang H, Lapid MD, **Bondi CO**, Morilak DA, O'Donnell JM (2006). *Desipramine-induced enhancement of noradrenergic neurotransmission in the medial prefrontal cortex demonstrated by in vivo microdialysis*. Program No. 324.10. 2006 Neuroscience Meeting Planner. Atlanta, GA: Society for Neuroscience, 2006. Online.
12. **Bondi CO**, Gould GG, Lu XY, Frazer A, Morilak DA (2006). *Chronic unpredictable stress induces a cognitive deficit and anxiety-like behavior in rats*. 13<sup>th</sup> Annual Grad Student Symposium, Dept. Pharmacology, UTHSCSA
11. **Bondi CO**, Gould GG, Lu XY, Frazer A, Morilak DA (2006). *Chronic Unpredictable Stress Produces Alterations in Cognitive Capability and Anxiety-like Behavior in Rats*. Center of Biomedical Neuroscience 4<sup>th</sup> Annual Retreat, UTHSCSA
10. Morilak DA, Barrera G, **Bondi CO** (2006). *Noradrenergic facilitation of defensive burying in lateral septum of rats: An adaptive coping response to stress*. 5<sup>th</sup> Forum of European Neuroscience, Vienna, Austria
9. **Bondi CO**, Lapid MD, Morilak DA (2005). *Effects of acute desipramine treatment on norepinephrine levels in mPFC and performance of rats on an attentional set-shifting task*. Program No. 644.14. 2005 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2005. Online
8. **Bondi CO**, Lapid MD, Morilak DA (2005). *Effects of acute DMI treatment on norepinephrine levels in mPFC and performance of rats on an attentional set-shifting task*. 12<sup>th</sup> Annual Grad Student Symposium, Dept. Pharmacology, UTHSCSA
7. **Bondi CO**, Gould GG, Frazer A and Morilak DA (2005). *The resident-intruder paradigm produces depressive-like symptomatology in male rats*. 12<sup>th</sup> Annual Grad Student Symposium, Dept. Pharmacology, UTHSCSA
6. **Petre CO**, Barrera G, Mahan A, Morilak DA (2005). *Noradrenergic facilitation of shock-probe defensive burying in the lateral septum*. ECNP Annual Workshop on Neuropsychopharmacology for Young Scientists, Nice, France
5. Barrera G, Mahan A, **Petre CO**, Morilak DA (2004). *Time-dependent effects of chronic DMI treatment on shock-probe defensive burying in rats*. ACNP Annual Meeting, San Juan , Puerto Rico
4. **Petre CO**, Barrera G, Morilak DA (2004). *Noradrenergic facilitation of shock-probe defensive burying in lateral septum*. SFN 34<sup>th</sup> Annual Meeting, San Diego, CA
3. **Petre CO**, Owens WA, Daws LC (2004). *The effects of Streptozotocin-induced diabetes on dopamine clearance in striatum*. 11<sup>th</sup> Annual Grad Student Symposium, Dept. Pharmacology, UTHSCSA

2. **Petre CO**, Barrera G, Mahan A, Morilak DA (2004). *Noradrenergic facilitation of shock-probe defensive burying in lateral septum*. 11<sup>th</sup> Annual Grad Student Symposium, Dept. Pharmacology, UTHSCSA
1. **Petre CO**, Barrera G, Morilak DA (2004). *Noradrenergic modulation of the defensive burying response in the lateral septum*. 10<sup>th</sup> Annual Grad Student Symposium, Dept. Pharmacology, UTHSCSA

#### **XIV. ABILITĂȚI LINGVISTICE**

Nivel nativ în Engleză și Română

Nivel mediu în Spaniolă, Franceză și Italiană