

UNIVERSITY OF PENNSYLVANIA  
Curriculum Vitae

February 12, 2021

**Bart-Gerard C. De Jonghe, Ph.D.**

**Office Address:** 125 S. 31<sup>st</sup>, Rm 2209  
Translational Research Laboratory  
University of Pennsylvania, Philadelphia, PA 19104  
E: bartd@nursing.upenn.edu

**EDUCATION**

- 2006 Pennsylvania State University, Main Campus, University Park, PA  
Pennsylvania State University College of Medicine, Hershey, PA  
Ph.D. in Nutritional Sciences
- 2001 Pennsylvania State University, Main Campus, University Park, PA  
B.S. in Premedicine
- 1991-1998 Bloomsburg University, Bloomsburg, PA, Non-degree student

**POSTGRADUATE TRAINING & FELLOWSHIP APPOINTMENTS**

- 2010-2011 University of Pennsylvania, School of Veterinary Medicine, Philadelphia, PA  
Postdoctoral Fellow, Department of Animal Biology  
Mentor: Dr. Kendra Bence
- 2008-2010 University of Pennsylvania, School of Veterinary Medicine, Philadelphia, PA  
Postdoctoral Researcher, Department of Animal Biology  
Mentor: Dr. Kendra Bence
- 2006-2008 Monell Chemical Senses Center, Philadelphia, PA  
Postdoctoral Fellow in Neurophysiology  
Mentor: Dr. Charles Horn

**ACADEMIC POSITIONS**

- 2021- *Associate Professor, Secondary Faculty, Department of Psychiatry, Perelman School of Medicine, University of Pennsylvania*
- 2017- *Associate Professor, Tenured, Department of Biobehavioral Health Sciences, School of Nursing, University of Pennsylvania*
- 2011-2017 *Assistant Professor, Tenure Track, Department of Biobehavioral Health Sciences, School of Nursing, University of Pennsylvania*
- 2008-2011 *Lecturer in nutrition, Department of Biobehavioral Health Sciences, School of Nursing, University of Pennsylvania*
- 2004-2005 *Instructor, Department of Nutritional Sciences, Pennsylvania State University*

**ADMINISTRATIVE POSITIONS**

- 2016- U. of Pennsylvania, Nutrition Undergraduate Programs, *Associate Director*
- 2015- U. of Pennsylvania, Institutional Animal Care and Use Committee (IACUC), *Vice-Chair*

## **HONORS/AWARDS/MEMBERSHIPS IN HONORARY SOCIETIES**

2018 Deans Distinguished Visiting Professorship, Perelman School of Medicine, Penn  
2017 Junior Faculty Research Award, School of Nursing, Penn  
2016 Junior Faculty Research Award, School of Nursing, Penn  
2016 Lindback Teaching Award School-level Nominee, School of Nursing, Penn  
2015 Dean's Award for Exemplary Teaching, School of Nursing, Penn  
2014 Dean's Award for Undergraduate Scholarly Mentorship, School of Nursing, Penn  
2006-2008 Postdoctoral research Fellowship, NIH T32 grant to Monell Chemical Center  
2004 Hintz Graduate Educational Enhancement Fellowship  
2003-2004 Graduate Assistantship award, Pennsylvania Nutrition Education Network  
2001-2003 Huck Institute for Life Sciences Graduate Fellowship at Penn State University  
2003 Penn State University Graduate Exhibition, selected award winner  
2002 Penn State University Graduate Exhibition, selected award winner  
1998-2001 Howard Hughes Undergraduate Scholar in Biology, Penn State University

## **GRANTS**

### **Pending Research Support**

**NIH R01-DK130239** **De Jonghe-Hayes-Doyle (MPI)** 07/01/2021-06/31/2026  
Title: Targeting the GDF15-GFRAL system to treat nausea and emesis  
Role: MPI (*20% effort, corresponding MPI*)  
Total Costs: \$3,800,000  
Pending Funding July 2021: **12<sup>th</sup> Percentile**

### **Ongoing Research Support**

**NIH R01-DK112812** **De Jonghe (PI)** 04/01/2017-03/31/2022  
Title: Neural mechanisms of nausea, vomiting, and energy balance dysregulation in animal models  
Role: PI (*35% effort*)  
Total Costs: \$2,208,000

**NIH R01-DK128443** **Hayes-De Jonghe-Doyle (MPIs)** 04/01/2021-03/31/2025  
Title: Second Generation GLP-1-based therapeutics for obesity and diabetes  
Role: MPI (*18% effort*)  
Total Costs: \$3,100,000

**Eli Lilly and Co. Research Agreement. Hayes-De Jonghe (Co-PIs)** 04/01/2021-03/31/2023  
Title: GLP-1R, GIP, and combinatorial therapies on food intake, body weight, and emesis  
Role: Co-PI (*10% effort*)  
Total Costs: \$275,000

### **Completed Research Support [Grants of \$30,000 or more]**

Swiss National Foundation Postdoctoral Fellowship; Early Postdoc Mobility Grant Title: The role of GLP-1 in chemotherapy-induced emesis Role: Sponsor Total Costs: \$144,000	Borner (PI)	01/01/2018-02/28/2021
Pfizer, Inc. Sponsored Research Agreement Title: Role of GDF15 on emesis in musk shrews Role: PI Total Costs: \$94,160	<b>De Jonghe (PI)</b>	04/01/2019-08/31/2020
Eli Lilly and Co. Research Agreement Title: GLP-1R, GIP, and combinatorial therapies on food intake, body weight, and emesis Role: Co-I (5% effort) Total Costs: \$225,000	<b>Hayes (PI)</b>	04/01/2017-03/31/2019
NSF I-Core Innovation Accelerator Title: Penn HealthCare Optimization Initiative Role: Admin PI Total Costs: \$50,000	<b>De Jonghe (PI)</b>	06/01/2018-08/31/2019
Zealand Pharma Inc. Investigator-initiated Proposal Title: GLP-1R signaling in nausea Role: Co-PI (Hayes Co-PI) Total Costs: \$100,000	<b>De Jonghe (Co-PI)</b>	06/01/2018-02/28/2019
NIH R01-DK096139 Title: Neuroendocrinology of energy balance control Role: Co-I Total Costs: \$1,680,000	Hayes (PI)	12/01/2012-11/30/2017
U. of Pennsylvania-University Research Foundation Title: Using chemogenetic tools to study Nausea Role: PI Total Costs: \$50,000	<b>De Jonghe (PI)</b>	09/01/2016-08/31/2017
Abramson Canter Cancer-ACS IRG Pilot Title: Chemotherapy-induced glutamatergic signaling influences neurobehavioral side effects Role: PI Total Costs: \$30,000	<b>De Jonghe (PI)</b>	02/01/2015-01/31/2016

U. of Pennsylvania-University Research Foundation      **De Jonghe (PI)**      08/01/2013-12/31/2014  
Title: Using rodents to Model Nausea  
Role: PI  
Total Costs: \$50,000

Penn Diabetes Center NIH DK-093874- Pilot Grant      **De Jonghe (PI)**      04/01/2013-3/31/2014  
Title: Hinbdrain POMC Neurons in Energy Balance  
Role: PI  
Total Costs: \$64,000

NIH R03-DK093874      Hayes (PI)      03/01/2012-02/28/2014  
Title: Neural mechanism of glucagon-like-peptide-1 receptor-mediated nausea /malaise  
Role: Co-I  
Total Costs: \$162,000

PG: AHA-10POST3910000      **De Jonghe (PI)**      07/01/2010-06/30/2012  
Postdoctoral Fellowship; The American Heart Association  
Title: Regulation of Energy Expenditure by Hindbrain & Forebrain PTP1B-POMC-Expressing Neurons  
Role: PI  
Mentor: Dr. Kendra Bence  
Total Costs: \$97,000

## **PATENTS**

Patent No. 62/801,391  
File Date: February 5, 2019  
Title: *PEPTIDE LIGANDS OF THE GDNF FAMILY RECEPTOR A-LIKE (GFRAL) RECEPTOR*  
By: Matthew R. Hayes, **Bart C. De Jonghe**, Robert F Doyle, Tito Borner, Ian Tinsley

## **PUBLICATIONS**

### **Journal Articles: Research, Peer Reviewed**

*(\*- indicates data-based, IF- indicates 5-year journal impact factor)*

1. Jaime-Lara RB, Borner T, Holland RA, Shaulson E, Brooks B, **De Jonghe BC**. Olanzapine Administration Reduces Chemotherapy-Induced Nausea Behavior in Rats. Biol Res Nurs. 2021 Apr 1;10998004211000443. Epub ahead of print. **\*[IF-1.8]**
2. Leon RM, Borner T, Stein LM, Urrutia NA, **De Jonghe BC**, Schmidt HD, Hayes MR. Activation of PPG neurons following acute stressors differentially involves hindbrain serotonin in male rats. Neuropharmacology. 2021 Apr 1;187:108477. **\*[IF-4.2]**
3. Tinsley IC, Borner T, Swanson ML, Chepurny OG, Doebley SA, Kamat V, Sweet IR, Holz GG, Hayes MR, **De Jonghe BC**, Doyle RP. Synthesis, Optimization, and Biological Evaluation of Corrinated Conjugates of the GLP-1R Agonist Exendin-4. J Med Chem. 2021 Mar 25;64(6):3479-3492. **\*[IF-6.7]**

4. Milliken BT, Elfers C, Chepurny OG, Chichura KS, Sweet IR, Borner T, Hayes MR, **De Jonghe BC**, Holz GG, Roth CL, Doyle RP. Design and Evaluation of Peptide Dual-Agonists of GLP-1 and NPY2 Receptors for Gluoregulation and Weight Loss with Mitigated Nausea and Emesis. *J Med Chem*. 2021 Jan 15. \***[IF-6.7]**
5. Borner T, Shaulson ED, Ghidewon MY, Barnett AB, Horn CC, Doyle RP, Grill HJ, Hayes MR, **De Jonghe BC**. GDF15 Induces Anorexia through Nausea and Emesis. *Cell Metab*. 2020 March 4;31(2):351-362.e5. \***[IF-20.6]**
6. Borner T, Wald HS, Ghidewon MY, Zhang B, Wu Z, **De Jonghe BC**, Breen D, Grill HJ. GDF15 Induces an Aversive Visceral Malaise State that Drives Anorexia and Weight Loss. *Cell Rep*. 2020 Apr 21;31(3):107543. \***[IF-8.1]**
7. Borner T, Shaulson ED, Tinsley IC, Stein LM, Horn CC, Hayes MR, Doyle RP, **De Jonghe BC**. A second-generation glucagon-like peptide-1 receptor agonist mitigates vomiting and anorexia while retaining glucoregulatory potency in lean diabetic and emetic mammalian models. Diabetes Obes Metab. 2020 May 14. \***[IF-6.1]**
8. Borner T, Workinger JL, Tinsley IC, Fortin SM, Stein LM, Chepurny OG, Holz GG, Wierzba AJ, Gryko D, Nexø E, Shaulson ED, Bamezai A, Da Silva VAR, **De Jonghe BC**, Hayes MR, Doyle RP. Corrination of a GLP-1 Receptor Agonist for Glycemic Control without Emesis. *Cell Rep*. 2020 Jun 16;31(11):107768. \***[IF-8.1]**
9. Leon R, Borner T, Reiner DH, Stein LR, Lhamo R, **De Jonghe BC**, Hayes MR. Hypophagia induced by hindbrain serotonin is mediated through central GLP-1 signaling and involves 5-HT2C and 5-HT3 receptor activation. *Neuropsychopharmacology*. 2019 Sep;44(10):1742-1751. \* **[IF-6.8]**
10. Mietlicki-Baase EG, Liberini CG, Workinger JL, Bonaccorso RL, Borner T, Reiner DJ, Koch-Laskowski K, McGrath LE, Lhamo R, Stein LM, **De Jonghe BC**, Holz GG, Roth CL, Doyle RP, Hayes MR. A vitamin B12 conjugate of exendin-4 improves glucose tolerance without associated nausea or hypophagia in rodents. *Diabetes Obes Metab*. 2018 June. \* **[IF-6.4]**
11. Alhadeff AL, Su Z, Hernandez E, Klima ML, Phillips SZ, Holland, RA, Guo C, Hantman AW, **De Jonghe BC**, Betley JN (2018). A neural circuit for the suppression of pain during a competing need state. *Cell*. 2018 Mar 22;173(1):140-152.e15 \* **[IF-30.4]**.
12. Arisi MF, Chirico EN, Sebeny R, Muthukumaran G, Mu A, **De Jonghe BC**, Margulies KB, Libonati JR. Myocardial apoptosis and mesenchymal stem cells with acute exercise. *Physiol Rep*. 2017 Jun; 5(11). pii: e13297. \* **[IF-1.6]**
13. Alhadeff AL, Holland RA, Zheng H, Rinamen L, Grill HJ, **De Jonghe BC**. Excitatory hindbrain-forebrain communication is required for cisplatin-induced anorexia and weight loss. *J Neurosci*, 2017 Jan 11;37(2):362-370\* **[IF-6.8]**

14. Sturgeon, KL, Schweitzer A, Leonard J, Tobias D, Liu Y, Cespedas E, Malik V, Rosner B, **De Jonghe BC**. Physical Activity Induced Protection Against Breast Cancer Risk Associated with Delayed Parity. *Physiol Behav*, 2017 Feb 1;169:52-58. \* [IF-3.0]
15. **De Jonghe BC**, Holland R, Olivos DR, Rupprecht LE, Kanoski SE, Hayes MR. Hindbrain GLP-1 receptor mediation of cisplatin-induced anorexia and nausea. *Physiol Behav*. 2016 Jan 1;153:109-14.\* [IF-3.0]
16. Schmidt HD, Mietlicki-Baase EG, Ige KY, Maurer JJ, Reiner DJ, Zimmer DJ, Van Nest DS Guercio LA, Wimmer ME, Olivos DR, **De Jonghe BC**, Hayes MR. Glucagon-Like Peptide-1 Receptor Activation in the Ventral Tegmental Area Decreases the Reinforcing Efficacy of Cocaine. *Neuropsychopharmacology*. 2015 Dec 17.\* [IF-7.8]
17. Ozek C, Zimmer DJ, **De Jonghe BC**, Kalb RG, Bence KK. Ablation of intact hypothalamic and/or hindbrain TrkB signaling leads to perturbations in energy balance. *Mol Metab*. 2015 Aug 18;4(11):867-80.\* [IF-5.6]
18. Alhadeff AL, Holland RA, Nelson A, Grill HJ, **De Jonghe BC**. Glutamate Receptors in the Central Nucleus of the Amygdala Mediate Cisplatin-Induced Malaise and Energy Balance Dysregulation through Direct Hindbrain Projections. *J Neurosci*. 2015 Aug 5;35(31):11094-104. \* [IF-6.8]
19. Holland, RA, Leonard JL, Haakennin P, Kensey N, **De Jonghe BC**. Cisplatin induces neuronal activation and increases central AMPA and NMDA receptor subunit gene expression in mice. *Physiology and Behavior*. *Physiol Behav*. 2014 Sep;136:79-85).\* [IF-3.0]
20. Pcsolyar NS, **De Jonghe BC**. Examining the use of dietary fiber in reducing the risk of type 2 diabetes mellitus in Latino youth. *J Transcult Nurs*. 2013 Dec.31;25(3):249-255.\* [IF-1.2]
21. **De Jonghe BC**, Hayes MR, Kanoski SE, Grill HJ, Bence KK. Food intake reductions and increases in energetic responses by hindbrain leptin and melanotan II are enhanced in mice with POMC-specific PTP1B deficiency. 2012. *Am J Physiol Endo and Metab*. 2012 Sep 1;303(5):E644-51\* [IF-4.3]
22. Tsou RC, Zimmer DJ, **De Jonghe BC**, Bence KK. Deficiency of PTP1B in leptin receptor-expressing neurons leads to decreased body weight and adiposity in mice. *Endocrinology*. 2012 Sep;153(9):4227-37\* [IF-4.3]
23. Kanoski SE, Zhao S, Guarnieri D, DiLeone R, **De Jonghe BC**, Bence KK, Hayes MR, Grill HJ. Endogenous leptin receptor signaling in the medial nucleus tractus solitarius, not the area postrema, regulates energy balance by mediating responses to gastrointestinal satiation signals. *Am J Physiol Endo and Metab*. 2012 Aug 15;303(4):E496-503.\* [IF-4.3]
24. Kanoski SE, Rupprecht LE, Fortin SM, **De Jonghe BC**, Hayes MR. The role of nausea in food intake and body weight suppression by peripheral GLP-1 receptor agonists, exendin-4 and liraglutide. *Neuropharmacology*. 2012 Spr;62(5-6):1916-27.\* [IF-4.7]

25. Hayes MR, Kanoski SE, **De Jonghe BC**, Leichner TM, Alhadeff AL, Fortin SM, Arnold M, Langhans W, Grill HJ. The common hepatic branch of the vagus is not required to mediate the glycemic and food intake suppressive effects of glucagon-like-peptide-1. *Am J Physiol Regul Integr Comp Physiol.* 2011 Nov;301(5):R1479-85.\* [IF-3.3]
26. **De Jonghe BC**, Hayes MR, Banno R, Skibicka KP, Zimmer DE, Bowen KA, Leichner TM, Alhadeff AL, Kanoski SE, Nillni EA, Grill HJ, Bence KK. Deficiency of PTP1B in POMC neurons leads to differential effects on energy balance and homeostatic response to cold exposure. *Am J Physiol Regul Integr Comp Physiol.* 2011 Jun; 300(6):E1002-11.\* [IF-3.3]
27. Hayes MR, Leichner TM, Lee G, Chowansky A, Zimmer D, **De Jonghe BC**, Kanoski SE, Grill HJ, Bence KK. Intracellular signals mediating the food intake suppressive effects of hindbrain glucagon-like-peptide-1 receptor activation. 2011 *Cell Metabolism.* Mar 2;13(3):320-3\* [IF-20.1]
28. Banno R, Zimmer D, **De Jonghe BC**, Atienza M, Rak K, Yang W, Bence KK. PTP1B- or SHP2-deficiency in POMC neurons reciprocally regulates energy balance. *J Clin Invest.* 2010 Mar 1;120(3):720-34.\* [IF-13.8]
29. Horn CC, **De Jonghe BC**, Matyas K, Norgren R. Chemotherapy-induced kaolin intake is increased by lesion of the lateral parabrachial nucleus of the rat. *Am J Physiol Regul Integr Comp Physiol.* 2009 Nov;297(5):R1375-82.\* [IF-3.3]
30. **De Jonghe BC**, Horn CC. Chemotherapy agent cisplatin induces 48 h Fos expression in the brain of a vomiting species, the house musk shrew (*Suncus murinus*). *Am J Physiol Regul Integr Comp Physiol.* 2009 Apr;296(4):R902-11.\* [IF-3.3]
31. **De Jonghe BC**, Lawler M, Horn CC, Tordoff M. Pica as an adaptive response: Kaolin consumption helps rats recover from chemotherapy-induced illness. *Physiol Behav.* 2009 Apr 20;97(1):87-90.\* [IF-3.0]
32. **De Jonghe BC**, Horn CC. Chemotherapy-induced pica and anorexia are reduced by common hepatic branch vagotomy in the rat. *Am J Physiol Regul Integr Comp Physiol.* 2008 Mar;294(3):R756-65.\* [IF-3.3]
33. Hajnal A, **De Jonghe BC**, and Covasa M. Dopamine D2 receptors contribute to increased avidity for sucrose in obese OLETF rats lacking CCK-1 receptors. *Neuroscience,* 2007 Aug 24;148(2):584-92.\* [IF-3.2]
34. **De Jonghe BC**, Hajnal A, and Covasa M. Conditioned preference for sweet stimuli in OLETF rat: effects of food deprivation. *Am J Physiol Regul Integr Comp Physiol.* 2006 May;292(5): R1819-27.\* [IF-3.3]
35. **De Jonghe BC**, Hajnal A, and Covasa M. Decreased gastric mechano-detection, but preserved gastric emptying, in CCK-1 receptor-deficient OLETF rats. *Am J Physiol Gastrointest Liver Physiol.* 2006 Oct;291(4):G640-9.\* [IF-3.6]

36. **De Jonghe BC**, Di Martino C, Hajnal A, and Covasa M. Brief intermittent access to sucrose differentially modulates prepulse inhibition and acoustic startle response in obese CCK-1 receptor deficient rats. *Brain Res.* 2005 Aug 2;1052(1):22-7. \* [IF-2.9]
37. **De Jonghe BC**, Hajnal A, and Covasa M. Increased oral and decreased intestinal sensitivity to sucrose in obese, prediabetic CCK-A receptor-deficient OLETF rats. *Am J Physiol Regul Integr Comp Physiol.* 2005 Jan;288(1):R292-300. \* [IF-3.3]

**Journal Articles: Research, Peer Reviewed Reviews (IF- indicates 5-year journal impact factor)**

1. **De Jonghe BC**, Temple, JN. Proceedings of SSIB 2019. (Editorial Introduction). *Physiol Behav* 2019 June [IF-3.0]
2. Nolan, LA, **De Jonghe BC**. Proceedings of SSIB 2018. (Editorial Introduction). *Physiol Behav* 2018 June [IF-3.0]
3. **De Jonghe BC**, Horn CC. The importance of systematic approaches in the study of emesis (Editorial Comment). *Temperature.* 2015 Vol (2), Issue (3) 322-323. [IF-N/A, new journal]
4. Hayes MR, Mietlicki-Baase EG, Kanoski SE, **De Jonghe BC**. Incretins and Amylin: Neuroendocrine Communication between the Gut, Pancreas, and Brain in Control of Food Intake and Blood Glucose. *Annual Reviews of Nutrition.* 2014;34:237-60. [IF-8.9]
5. **De Jonghe BC**, Hayes MR, Bence KK. Melanocortin Control of Energy Balance: Evidence from Rodent models. 2011 *Cellular and Molecular Life Sciences.* 2011 Aug;68(15):2569-8. [IF-5.6]
6. Hayes MR, **De Jonghe BC**, Kanoski SE. Role of the glucagon-like-peptide-1 receptor in the control of energy balance. *Physiol Behav.* 2010 Jul 14;100(5):503-10. [IF-3.0]

**Journal Articles: Research, Non-Peer Reviewed**

1. **De Jonghe BC**, Bence KK. Brown fat: who, what, where, when, why, how? *Cell Science Reviews.* 2008 Oct 27;5(2):63-66. [IF-N/A]

**RECENT LECTURES BY INVITATION [past 6 years]**

**Invited Research Lectures**

- |          |  |
|----------|--|
| 02/10/19 | Seminar Speaker, “Chemotherapy-induced nausea and anorexia.” Keystone Symposia, Neural Circuits of Feeding, Banff, Canada.   |
| 12/16/18 | Seminar Speaker, “Chemotherapy-induced Malaise.” Program in Cancer Biology and Experimental Therapeutics & Hong Kong Pharmacology Society, The Chinese University of Hong Kong, Hong Kong. |
| 04/18/18 | Seminar Speaker, “Understanding intake inhibition and nausea in cancer treatment.” PSOM Dean’s Lecture Series, University of Pennsylvania, Philadelphia, PA                                |



- 12/13/16 Seminar Speaker, “Understanding intake inhibition and nausea in cancer treatment.” Institute of Diabetes, Obesity & Metabolism, University of Pennsylvania, Philadelphia, PA.
- 10/05/16 Seminar Speaker, “Neural populations and connections mediating chemotherapy side effects.” Program in Cancer Biology and Experimental Therapeutics & Hong Kong Pharmacology Society, The Chinese University of Hong Kong, Hong Kong.
- 09/12/16 Seminar Speaker, “Peripheral and central controls of intake inhibition and emesis behavior in chemotherapy-induced malaise.” The John B. Pierce Laboratory/ Yale University, New Haven, CT.
- 05/28/14 Seminar Speaker, “The nauseating nature of chemotherapy and neuroinflammation.” Center for Weight and Eating Disorders, Department of Psychiatry, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA.
- 04/11/14 Seminar Speaker, “Central Controls of intake inhibition and nausea in chemotherapy.” Brain Talk Series, Department of Biological Sciences, Dornsife College of Letters, Arts and Science, University of Southern California, Los Angeles, CA.
- 07/30/13 Presidential Symposium, invited speaker; “Modeling emetic behavior in the animal: how do we study nausea?” Society for the Study of Ingestive Behavior, Annual meeting 2013, New Orleans, LA.
- 11/14/12 Oral symposium, speaker; “The Role of Obesity in Chemotherapy-Induced Malaise”. The Obesity Society, Annual meeting 2012, San Antonio, TX.
- 04/06/12 Symposium, invited speaker; “The Homeostatic Regulation of Feeding.” The Grocery Manufacturer’s Association of America annual meeting 2012, invited symposium talk, Washington D.C.

### **Invited Academic Guest Lectures**

- 09/13/20 Lecturer, “Understanding Mechanisms of Obesity”, Psychology 325: Obesity and Society Bryn Mawr College.
- 01/26/19 Lecturer, “Understanding Mechanisms of Obesity”, Psychology 325: Obesity and Society Bryn Mawr College.
- 09/26/18 Lecturer, “Neuroscience of Body Weight Regulation”, Psychology 327: Obesity: Psychology, Physiology, and Health. Haverford College.
- 04/12/18 Lecturer, “Nutrition and Mental Health”, DANH 516:, University of Pennsylvania, Penn Dental Medicine.
- 01/30/18 Lecturer, “Neuroscience of Body Weight Regulation”, Psychology 327: Obesity: Psychology, Physiology, and Health. Haverford College.
- 01/26/17 Lecturer, “Neuroscience of Body Weight Regulation”, Psychology 327: Obesity: Psychology, Physiology, and Health. Haverford College.
- 08/04/16 Lecturer; “Obesity and Energy Balance.” NURS780: Health care for health in primary care, University of Pennsylvania, School of Nursing.
- 02/17/15 Lecturer; “CNS#6: Cortex, Limbic System.” DANH 510: Gross Anatomy, University of Pennsylvania, Penn Dental Medicine.
- 02/05/15 Lecturer; “CNS#5: Diencephalon, Visual System” DANH 510: Gross Anatomy, University of Pennsylvania, Penn Dental Medicine.

- 02/03/15 Lecturer; “CNS#3: Sensory systems, Brainstem organization.” DANH 510: Gross Anatomy, University of Pennsylvania, Penn Dental Medicine.
- 01/29/15 Lecturer; “CNS #2: CNS cytology, Spinal cord, roots of spinal nerves, muscle contraction.” DANH 510: Gross Anatomy, University of Pennsylvania, Penn Dental Medicine.
- 01/29/15 Lecturer; “CNS #1: Introduction, Anatomy/Construction of the CNS, CSF/blood supply.” DANH 510: Gross Anatomy, University of Pennsylvania, Penn Dental Medicine.
- 10/13/14 Lecturer; “Obesity and Cancer.” NURS664: Advanced Practice Nursing for Oncology Care, University of Pennsylvania, School of Nursing.
- 10/06/14 Lecturer; “Mendelian Genetics.” NURS062: Introductory Cell Biology, University of Pennsylvania, School of Nursing.
- 09/24/14 Lecturer; “Protein and Lipid Metabolism.” NURS062: Introductory Cell Biology, University of Pennsylvania, School of Nursing.
- 08/08/14 Lecturer; “Obesity and Energy Balance.” NURS780: Health care for health in primary care, University of Pennsylvania, School of Nursing.

### **MEMBERSHIP IN PROFESSIONAL & SCIENTIFIC SOCIETIES**

#### **International**

- 2003 – The Society for the Study of Ingestive Behavior (SSIB)
- 2003 – Society for Neuroscience (SNF)
- 2009 – The Obesity Society (TOS / previously: NAASO)

#### **National**

- 2004 – 2007 American Society for Nutritional Sciences (ASNS)

### **SELECTED PROFESSIONAL ACTIVITIES**

#### **International**

- 2017– SSIB, public communications committee, *member*

#### **Editorial Positions**

##### *Grant Reviewer*

- 2020 NIH: NIDDK 2021/05 ZDK1 GRB-6 (M4) 1: Generating Multidisciplinary Resources that Accelerate Understanding of how Neuronal Cilia Mediate Body Weight Homeostasis (RC2)
- 2019- NIH: NIDDK DDK-C Study Section Ad hoc (for K Awards)
- 2019 National Egg Council of Canada: Grant Review Committee
- 2018 NIH: 2018/08 ZRG1 IDM-C (50) R - PAR16-274/275: Serious Adverse Drug Reaction Research
- 2016 Netherlands Organisation for Scientific Research: Openn Programme for Earth and Life Sciences
- 2013 Dutch Diabetes Research Foundation: Junior Diabetes Fonds Fellowships
- 2012 Dutch Cancer Society: DCS Grant Awards in nutritional care of cancer survivors
- 2011 American Diabetes Assn.: Neurohormonal Control of Metabolism ADA Novo Nordisk Award

##### *Peer-Reviewed Journal Editor*

- 2019 Co-editor, Physiology and Behavior Special Issues for the proceedings of 2018 SSIB annual meeting
- 2018 Co-editor, Physiology and Behavior Special Issues for the proceedings of 2017 SSIB annual meeting

##### *Ad hoc Peer-Reviewed Journal Reviewer*

2020- Nature Medicine  
 2019- Journal of Clinical Investigation  
 2016- Frontiers in Pharmacology  
 2015- Neuropharmacology  
 2013- Nursing Research  
 2013- Behavioural Brain Research  
 2013- European Journal of Endocrinology  
 2013- Journal of Applied Physiology  
 2013- Journal of Physiology  
 2013- Journal of Histochemistry and Cytochemistry  
 2012- Hormone and Metabolism Research  
 2012- International Journal of Neuroscience  
 2012- Endocrinology  
 2012- Food and Chemical Toxicology  
 2012- Obesity  
 2012- Appetite  
 2012- The American Journal of Physiology (AJP): Gastro and Liver Phys  
 2010- Diabetes  
 2010- Peptides  
 2010- Regulatory peptides  
 2009- The American Journal of Physiology (AJP): Regul, Integr, and Comp Phys  
 2008- Journal of Nutrition  
 2008- Physiology and Behavior

## **SERVICE ACTIVITIES AT CURRENT PLACE OF EMPLOYMENT**

### **School of Nursing Academic Service**

2016- Nutrition Science Programs, *Associate Director*  
 2016 Nutrition Science Major, *Co-Founder*  
 2013- 2015 Nutrition Minor Program, *Co-Director*

### **School of Nursing Committees/Task Forces/Workgroups**

2020- School of Nursing, Research Committee, *member and Chair-Elect*  
 2020- School of Nursing, PhD Progressions, *member*  
 2016-2019 School of Nursing, Undergraduate Curriculum Committee, *member*  
 2014-2017 School of Nursing, Faculty Senate Bylaws Committee, *past chair, member*  
 2014-2018 School of Nursing, Dean's subcommittee on Diversity, *co-chair*  
 2014 School of Nursing, Undergraduate Science Task Force, *member*  
 2014 School of Nursing, BHS Department Head Search Committee, *member*  
 2014 School of Nursing, ONR Biomarker Challenge Grant Selection Committee, *member*  
 2013-2014 School of Nursing, Hillman Scholar Selection Committee, *member*  
 2013-2014 School of Nursing, Task Force on Nursing 389: Research Residency, *member*  
 2013 School of Nursing, Undergraduate Curriculum Committee, *interim member*  
 2012-2015 Graduate Group in Nursing: Ph.D. Admissions Committee, *member*

### **University Service/Committees**

2015- University of Pennsylvania IACUC, *Vice-Chair*  
 2015-2018 University of Pennsylvania IACUC, Training Subcommittee, *Chair*  
 2014- University of Pennsylvania IACUC, *scientist/PI member*,  
 2014-2015 University of Pennsylvania IACUC satellite housing subcommittee, *member*

2012-2015 Neuroscience Graduate Group: Rotation Talks Committee, *member/co-coordinator*  
2012- Neuroscience Graduate Group: Rotation Talks Committee, *RCR training leader*

### **Community Outreach service**

2014-2018 Philadelphia Healthy Food Truck Initiative, *board member*

## **MENTORED STUDENTS AND PROFESSIONALS**

### **Postdoctoral Fellows**

2017- Tito Borner, Ph.D.

### **School of Nursing Ph.D. Student Mentees**

2014-2018 Rosario Jaime-Lara, Ph.D., *Dissertation Title: "Olanzapine as a Novel Treatment for Chemotherapy Induced Nausea and Vomiting."* School of Nursing, Ph.D. awarded 2018.

### **Post-baccalaureate laboratory research assistants**

2020- Sarah Doebley, BA  
2017-2020 Arielle Levine, BA  
2017-2019 Evan Shaulson, BA  
2016-2017 Ruby Holland, BA  
2014 Alexandra Nelson, BA, BSN

### **Current Undergraduate laboratory research assistants**

2019- Sarah Ramadan, *College of Arts and Sciences*  
2019- Alisha Agarwal, *College of Engineering*  
2018- Robert Sierra, *College of Arts and Sciences*  
2018- Charles Moore, *College of Arts and Sciences*

### **Selected Past undergraduate laboratory research assistants**

2017-2018 Lucy Gilak, *College of Arts and Sciences*  
2017-2019 Brianna Brooks, *College of Arts and Sciences*  
2016-2018 Samantha Gold, *College of Arts and Sciences*  
2015-2018 Charis Anderson, *School of Nursing*  
2015-2018 Nia Ebrahim, *College of Arts and Sciences*  
2014-2018 Dashiell-Ridolffi-Starr, *College of Arts and Sciences*  
2013-2016 Aaron Schweitzer, *College of Arts and Sciences*  
2013 Carol Lee, *School of Nursing*  
2013 Nicholas A. Kensey, *Summer Research Internship, Connecticut College*  
2013 Paavali Hannikainen, *Summer Research Internship, Tulane University*  
2012-2015 John Leonard, *College of Arts and Sciences*  
2012-2016 Ruby Holland, *College of Arts and Sciences*  
-PURM award winner, summer 2013  
-Penn University Scholar (UScholars program)  
2012-2013 Colby Samstag, *College of Arts and Sciences*  
-Winner, Best Senior Thesis Award, Department of Cognitive Science 2013

### **School of Nursing undergraduate senior inquiry advisor**

**2014** Alexandra Nelson, BSN; Yvonne Eber; BSN  
**2013** Mario Lozado, BSN; Ingrid Hanson, BSN  
**2012** Nika Pcsolyar, BSN; Lauren Danella, BSN; Molly Hampshire, BSN

### **DOCTORAL DISSERTATION COMMITTEES/DISSERTATION READER**

#### **Penn School of Nursing Ph.D. Candidates**

##### Past

**2014-2015** *Hillman Scholar co-Advisor*, Jason Brown. Penn SON.  
**2013-2015** *Hillman Scholar co-Advisor*, Andrew Dierkes. Penn SON.

**2013** *Dissertation defense reader*, Kelly J Delaney: “Sustainable Emergencies: The paradox of community management of acute malnutrition programs,” Penn SON.

**2012-2014** *Candidacy exam member and Dissertation Defense Reader*, Christina Slota: “The effects of chronic stress on naïve and memory T cell’s function: An epigenetic and transcriptional assessment from bench to bedside,” Penn SON, 2012 & 2014.

**2012** *Dissertation defense reader*, Melanie Lyons: “The role of TAT-Heat Shock Protein 70 in attenuating lung injury in a sepsis induced Acute Respiratory Distress Syndrome rodent model,” Penn SON, 2012.

**2012** *Dissertation defense reader*, Michael Fachko: “Cardiovascular effects and enjoyment of exergaming in older adults. Penn SON, 2012.

#### **Penn Biomedical Graduate Student Ph.D. Candidates**

##### Current

**2019-** *Dissertation committee*, Rosa Leon, candidate in BGS Neuroscience graduate group  
**2019-** *Dissertation committee*, Mike Iannacone, candidate in BGS Neuroscience graduate group

##### Past

**2016-2018** *Dissertation committee*, Sarah McKee, Ph.D. in BGS Pharmacology group, Ph.D. 2018.