Nicholas T. Bello, Ph.D.

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Education

2006	Ph.D., Neuroscience Pennsylvania State University College of Medicine Hershey, PA
1999	Master of Laboratory Animal Science (MLAS) Drexel University College of Medicine, Philadelphia, PA
1997	B.S. in Animal Bioscience (Minor: Horticulture) Pennsylvania State University, University Park, PA

Professional Positions

2022-present	Associate Chair, Department of Animal Sciences School of Environmental and Biological Sciences Rutgers, The State University of New Jersey, New Brunswick, NJ
2022-present	Professor, Department of Animal Sciences School of Environmental and Biological Sciences Rutgers, The State University of New Jersey, New Brunswick, NJ
2016-2022	Associate Professor, Department of Animal Sciences School of Environmental and Biological Sciences Rutgers, The State University of New Jersey, New Brunswick, NJ
2016-present	Member, Graduate Program in Neurosciences School of Graduate Studies (known as the Graduate School–New Brunswick prior to 2017) Rutgers, The State University of New Jersey, New Brunswick, NJ
2016-present	Core Member, Rutgers Brain Health Institute Rutgers Biomedical Health Sciences, New Brunswick, NJ
2011-present	Member, Graduate Program in Nutritional Sciences School of Graduate Studies (Graduate School–New Brunswick) Rutgers, The State University of New Jersey, New Brunswick, NJ
2010-present	Member, Graduate Program in Endocrinology and Animal Biosciences **(EAB)** School of Graduate Studies (Graduate School–New Brunswick) Rutgers, The State University of New Jersey, New Brunswick, NJ
2010-2016	Assistant Professor, Department of Animal Sciences School of Environmental and Biological Sciences

Rutgers, The State University of New Jersey, New Brunswick, NJ

2006-2010 Postdoctoral Fellow, Department of Psychiatry and Behavioral Sciences
Johns Hopkins School of Medicine, Baltimore, MD
(Advisor: Timothy H. Moran, Ph.D.)

2000-2006 Graduate Student, Department of Neural and Behavioral Sciences
Pennsylvania State University College of Medicine, Hershey, PA
(Advisor: Andras Hajnal, MD, Ph.D.)

1999-2000 Laboratory Technician, Department of Pediatrics and Gastroenterology
Children's Hospital of Philadelphia, Philadelphia,
PA (Supervisor: Rita J. Valentino, Ph.D.)

Internship

1999 Merck & Co., Department of Laboratory Animal Resources, West Point, PA (Supervisor: Tamara Goode, DVM)

1. TEACHING

Courses

Rutgers University, New Brunswick, NJ ***(Note: Primary teaching responsibility in boldface)***

2021 Recent Advances in Endocrinology (Spring, 2 credits; 16:340:612:01; 20% lectures)
2017-Present **Integrative Physiology*** (Fall, 4 credits; 11:067:300; course coordinator; 80-100% of lectures)
2017-2019 **Integrative Physiology** (Spring, 4 credits; 11:067:300; course coordinator; 80-100% of lectures)
2014 Recent Advances in Endocrinology (Fall, 2 credits; 16:340:612:01; 50% lectures)
2013-2019 Fighting the Fat: Do Obesity Treatments Work? (Aresty-Byrne Seminar for First-Year Students, Spring, 1 credit; 11:090:101:01; all lectures)
2012-2016 **Integrative Physiology** (Spring – *except during Spring 2014 sabbatical,* 4 credits; 11:067:300; all lectures)
Integrative Physiology Laboratory (Spring – *except during Spring 2014 sabbatical,*, 1 credit; 11:067:301; all labs*) – Lab course was discontinued after Spring 2016.*
2011-Present Comparative Mammalian Anatomy (Fall and Summer, 3 credits; 11:067:391; two lectures)
2011-Present Nutritional Aspects of Disease (Every other Fall, 3 credits; 16:709:506; two lectures)
2011-2013 Physiology of Reproduction (Every other Fall, 3 credits; 16:340:502; two lectures)

Carroll Community College, Westminster, MD

2008-2010 Biology 101 (Fall and Spring, 4 credits; all lectures and labs)

Course taught at University of Maryland, College Park, MD

2008 Energy Balance (Fall; NFSC 630; 3 credits; two lectures)

Course taught at Pennsylvania State College of Medicine, Hershey, PA

2003-2004 Tutorial Sessions Instructor, Neural & Behavioral Science (Spring; NBS 725/Neuro 511; all sessions)
2002 Laboratory Teaching Assistant, Neural & Behavioral Science (Spring, 4 credits; NBS725/

*11:067:300 has included both lecture and simulation-lab components since 2017, when 11:067:301 was discontinued.

Neuro511; all labs)

Postdoc/Graduate Student Advising:

Postdoctoral Scholars

Lihong Hao, Ph.D.	2019-Present

Ph.D. Students

Joshua Corris	2021-Present; EAB
Gregory Berger	2020-Present; EAB
Xinyi Li	2017-Present; Nutritional Sciences

Ph.D. Students *(continued)*

Dushyant Kshatriya	2017-2021; Nutritional Sciences	Scientist, Research Diets
Bryn L. Sachdeo (Yeomans)	2014-2019; Nutritional Sciences	Scientific Advisor, Illuminate Labs; Instructor, Columbia University
Juliet Gentile (Gotthardt)	2013-2017; Nutritional Sciences	Nutritionist II, Nestle Purina
Jessica L. Verpeut	2011-2015; EAB	Assistant Professor (Tenure-Track), Arizona State University (Formerly Postdoctoral Fellow, Princeton University)

Ph.D. Committee Membership

Kevin Tveter	2019-Present; Food Science
Eileen Carry	2018-2021; Medicinal Chemistry
Gwyndolin M. Vail	2018-2020; Toxicology
Kristine Conde	2018-2020; Neuroscience
Jennifer Weinert	2018-Present; EAB
Suraj Teegala	2018-Present; Pharmacology and Neuroscience, NJMS
Mariana Saboya	2016-2019; EAB
Yang Wang	2016-2019; Nutritional Sciences
Miguel Cabrera	2014-2018; EAB
Joshua Stamos	2014-2018; Neuroscience
Miranda Johnson	2015-2016; Pharmacology and Neuroscience, NJMS
Ryan Olson	2015-2016; Nutritional Sciences
Kyle Mamounis	2014-2017; Nutritional Sciences
Melissa Murphy	2015-2017; Nutritional Sciences
Brenda Burgess	2015-2017; Nutritional Sciences
Allyson Agostini-Dreyer	2014; Nutritional Sciences
Changqing Zhang	2013; EAB
Reema Patel	2012; Neurosciences, NJMS

M.S. Committee Membership

Tasleenpal Akal	2019-2020; Nutritional Sciences
Alexandra Kreitman	2019-2020; Nutritional Sciences
Ali Yasrebi	2017-2019; EAB
Elizabeth Krumm	2014-2015; EAB

Undergraduate Student Advising/Mentorship

2014-Present	Academic Advisor, Undergraduate Program in Animal Sciences (~30 students)
2012-Present	Thesis Advisor, G.H. Cook Honors and SEBS General Honors Program (10 students)
2011-Present	Advisor, Aresty Research Assistants (7 students)
2012-Present	Thesis Advisor, Cell Biology and Neuroscience Honors Program (6 students)

2. SCHOLARSHIP

Peer-Reviewed Publications (* indicates candidate is corresponding author)

59. Li X, Yeh C-Y, **Bello NT***. High-fat diet attenuates morphine withdrawal effects on sensory-evoked locus coeruleus norepinephrine neural activity in male obese rats. *Nutritional Neuroscience*. *In Press*. 9 pp.

58. Yuan B, Zhao D, Lyu W, Yin Z, Kshatriya D, Simon JE, **Bello NT**, Wu Q. Development and validation of a micro-QuEChERS method with high-throughput enhanced matrix removal followed with UHPLC-QqQ-MS/MS for analysis of raspberry ketone-related phenolic compounds in adipose tissues. *Talanta*. 235, 1 December 2021, 122716. (pp.1-10). doi.org/10.1016/j.talanta.2021.122716

57. Carry E, Kshatriya D, Silva J, Davies DL, Yuan B, Wu Q, Patel H, Park E, Gilleran J, Hao L, Roberge J, **Bello NT*** and Simon JE. Identification of dihydromyricetin and metabolites in serum and brain associated with acute anti-ethanol intoxicating effects in mice. *International Journal of Molecular Sciences.* 2021; 22(14):7460 (pp. 1-14). doi.org/10.3390/ijms22147460.

56. Kreitman A, Schneider SH, Hao L, Schlussel Y, **Bello NT**, Shapses SA. 2021. Reduced postprandial bone resorption and greater rise in GLP-1 in overweight and obese individuals after an α-glucosidase inhibitor: a double-blinded randomized crossover trial. *Osteoporosis International* 32(7):1379-1386. Epub 2021 Jan 11. doi: 10.1007/s00198-020-05791-5.

55. Wang Y, Miller JW, **Bello NT**, Shapses SA. 2020. Low-vitamin-D diet lowers cerebral serotonin concentration in mature female mice. *Nutrition Research* 81:71-80. doi: 10.1016/j.nutres.2020.07.006.

54. Hao L, Kshatriya D, Li X, Badrinath A, Szmacinski Z, Goedken MJ, Polunas M, **Bello NT***. 2020. Acute feeding suppression and toxicity of raspberry ketone [4-(4-hydroxyphenyl)-2-butanone] in mice. *Food and Chemical Toxicol*ogy 143:111512 (pp.1-8). doi: 10.1016/j.fct.2020.111512

53. Kshatriya D, Hao L, Li X, **Bello NT***. 2020. Raspberry ketone [4-(4-hydroxyphenyl)-2-butanone] differentially effects meal patterns and cardiovascular parameters in mice. *Nutrients* 12(6):E1754 (pp. 1-18). doi: 10.3390/nu12061754

52. Yuan B, Zhao D, Kshatriya D, **Bello NT**, Simon JE, Wu QL. 2020. UHPLC-QqQ-MS/MS method development and validation with statistical analysis: Determination of raspberry ketone metabolites in mice plasma and brain. *Journal of Chromatography. B, Analytical Technologies in the Biomedical and Life Sciences* 1149:122146 (pp. 1-18). doi: 10.1016/j.jchromb.2020.122146

51. Zhao D, Yuan B, Kshatriya D, Polyak A, Simon JE, **Bello NT***, Wu QL. 2020. Influence of diet-induced obesity on the bioavailability and metabolism of raspberry ketone (4-(4-hydroxyphenyl)-2-butanone) in mice. *Molecular Nutrition & Food Research* 64(8):e1900907 (pp. 1-11). doi: 10.1002/mnfr.201900907.

50. Li X and **Bello NT***. 2020. Anorectic state of obesity medications in the United States. Are leaner times ahead? *Expert Opinion on Pharmacotherapy* 21(2):167-172. doi:10.1080/14656566.2019.1692815

49. Bello NT*. 2019. Update on drug safety evaluation of naltrexone/bupropion for the treatment of obesity. Expert Opinion on Drug Safety 18(7):549-552. doi:10.1080/14740338.2019.1618268

48. **Bello NT***, Yeh CY, James MH. 2019. Reduced sensory-evoked locus coeruleus-norepinephrine neural activity in female rats with a history of dietary-induced binge eating. *Frontiers in Psychology* 10:1966 (pp. 1-11). doi:10.3389/fpsyg.2019.01966

47. Kshatriya D, Li X, Giunta GM, Yuan B, Zhao D, Simon JE, Wu QL, **Bello NT***. 2019. Phenolic-enriched raspberry fruit extract *(Rubus idaeus)* resulted in lower weight gain, increased ambulatory activity, and elevated hepatic lipoprotein lipase and heme oxygenase-1 expression in male mice fed a high-fat diet. *Nutrition Research* 68:19-33. doi:10.1016/j.nutres.2019.05.005

46. Yuan B, Zhao D, Du R, Kshatriya D, **Bello NT**, Simon JE, Wu Q. 2019. A highly sensitive ultra-high

performance liquid chromatography/tandem mass spectrometry method with in-source fragmentation for rapid quantification of raspberry ketone. *Journal of Food and Drug Analysis* 27(3):778-785. doi:10.1016/j.jfda.2018.07.005

45. Sachdeo BLY, Yu L, Giunta, GM, **Bello NT***. 2019. Binge-like eating is not influenced by the murine model of *OPRM1* A118G polymorphism. *Frontiers in Psychology* 10:246 (pp. 1-11). doi:10.3389/fpsyg.2019.0024645

44. Gupta A, Li X, DiCicco-Bloom E, **Bello NT***. 2018. Altered salt taste response and increased tongue epithelium Scnna1 expression in adult Engrailed-2 null mice. *Physiology & Behavior* 194:410-419. doi:10.1016/j.physbeh.2018.06.030

43. **Bello NT*,** Cohick WS, McKeever KH, Malinowski K. 2018. Paul D. Sturkie: Avian cardiac physiologist. *Poultry Science* 97(6):2203-2206. doi:10.3382/ps/pey072

42. **Bello NT***, Yeomans BL. 2018. Safety of pharmacotherapy options for bulimia nervosa and binge eating disorder. *Expert Opinion on Drug Safety* 17(1):17-23. Invited Review. doi:10.1080/14740338.2018.1395854

41. Liu JJ, **Bello NT**, Pang ZP. 2017. Presynaptic regulation of leptin in a defined lateral hypothalamus-ventral tegmental area neurocircuitry depends on energy state. *Journal of Neuroscience* 37(49):11854-11866. doi:10.1523/JNEUROSCI.1942-17.2017

40. Gotthardt JD, **Bello NT***. 2017. Meal pattern alterations associated with intermittent fasting for weight loss are normalized after high-fat diet re-feeding. *Physiology & Behavior* 174:49-56. doi:10.1016/j.physbeh.2017.02.046

39. Gotthardt JD, **Bello NT*.** 2016. Can we win the war on obesity with pharmacotherapy? *Expert Review of Clinical Pharmacology* 9(1):1289-1297. doi:10.1080/17512433.2016.1232164. Invited Review

38. Gotthardt JD, Verpeut JL, Yeomans BL, Yang JA, Yasrebi A, Roepke TA, **Bello NT**. 2016. Intermittent fasting promotes fat loss with lean mass retention, increased hypothalamic norepinephrine content, and increased neuropeptide Y gene expression in diet-induced obese male mice. *Endocrinology* 157(2):679-691. doi: 10.1210/en.2015-1622

37. Oni EN, Halikere A, Li G, Toro-Ramos AJ, Swerdel MR, Verpeut JL, Moore JC, **Bello NT**, Bierut LJ, Goate A, Tischfield JA, Pang ZP, Hart RP. 2016. Increased nicotine response in iPSC-derived human neurons carrying the CHRNA5 N398 allele. *Scientific Reports* 6:34341 (pp. 1-11). doi: 10.1038/srep34341

36. Hu P, Liu J, Yasrebi A, Gotthardt JD, **Bello NT**, Pang ZP, Roepke TA. 2016. Gq protein-coupled membrane-initiated estrogen signaling rapidly excites corticotropin-releasing hormone neurons in the hypothalamic paraventricular nucleus in female mice. *Endocrinology* 157(9):3604-3620. doi: 10.1210/en.2016-1191

35. Verpeut JL, DiCicco-Bloom E, **Bello NT***. 2016 Ketogenic diet exposure during the juvenile period increases social behaviors and forebrain neural activation in adult Engrailed 2 null mice*. Physiology & Behavior* 161:90-98. doi: 10.1016/j.physbeh.2016.04.001

34. **Bello NT*.** 2015. Clinical utility of guanfacine extended release in the treatment of ADHD in children and adolescents. *Patient Preference and Adherence* 9:877-885. doi: 10.2147/PPA.S73167. Invited Review

33. Liang NC, **Bello NT**, Moran TH. 2015. Wheel running reduces high-fat diet intake, preference and mu-opioid agonist stimulated intake. *Behavioural Brain Research* 284:1-10. doi: 10.1016/j.bbr.2015.02.004

32. Gotthardt JD and **Bello NT***. 2014. Efficacy and safety of lorcaserin – antiobesity effects with benefits. *Journal of Symptoms and Signs* 3(5):352-357. Invited Review

31. Verpeut JL and **Bello NT***. 2014. Drug safety evaluation of naltrexone/bupropion for the treatment of obesity. *Expert Opinion on Drug Safety* 13(6):831-841. Invited Review

30. **Bello NT***, Walters AL, Verpeut JL, Caverly J. 2014. Dietary-induced binge eating increases prefrontal cortex

neural activation to restraint stress and increases binge food consumption following chronic guanfacine. *Pharmacology, Biochemistry and Behavior* 125:21-28.

29. **Bello NT***, Yeh CY, Verpeut JL, Walters AL. 2014. Binge-like eating attenuates nisoxetine feeding suppression, stress activation, and brain norepinephrine activity. *PLoS One* 9(4):e93610 (pp. 1-11).

28. Verpeut JL, Walters AL, **Bello NT***. 2013. *Citrus aurantium* and *Rhodiola rosea* in combination reduce visceral white adipose tissue and increase hypothalamic norepinephrine in a rat model of diet-induced obesity. *Nutrition Research* 33(6):503-512.

27. **Bello NT***, Walters AL, Verpeut JL, Cunha PP. 2013. High-fat diet-induced alterations in the feeding suppression of nisoxetine, a selective norepinephrine reuptake inhibitor. *Journal of Obesity* 2013:457047 (pp. 1-9).

26. Liang NC, **Bello NT**, Moran TH. 2013. Additive feeding inhibitory and aversive effects of naltrexone and exendin-4 combinations. *International Journal of Obesity (London)* 37(2):272-278.

25. **Bello NT***and Campbell SC. 2012. Two anti-obesity hopefuls and their safety. *Expert Opinion on Drug Safety* 11(5):681-683. Editorial

24. Li X, Tamashiro KL, Liu Z, **Bello NT**, Wang X, Aja S, Bi S, Ladenheim EE, Ross CA, Moran TH, Smith WW. 2012. A novel obesity model: synphilin-1-induced hyperphagia and obesity in mice. International Journal of Obesity (London) 36(9):1215-1221.

23. **Bello NT**, Coughlin JW, Redgrave GW, Ladenheim EE, Moran TH, Guarda AS. 2012. Dietary conditions and highly palatable food access alter rat cannabinoid receptor expression and binding density. *Physiology & Behavior* 105:720-726.

22. Liang NC, **Bello NT**, Moran TH. 2011. Experience with activity based anorexia enhances conditioned taste aversion learning in rats. *Physiology & Behavior* 102(1):51-57.

21. **Bello NT*** and Liang NC. 2011. The use of serotonergic drugs to treat obesity--Is there any hope? *Drug Design Development and Therapy* 5:95-109. Invited Review

20. **Bello NT**, Patinkin ZW, Moran TH. 2011. Opioidergic consequences of dietary-induced binge eating. *Physiology & Behavior* 104(1):98-104.

19. Chakraborty A, Koldobskiy MA, **Bello NT**, Maxwell M, Potter JJ, Juluri KR, Maag D, Kim S, Huang AS, Dailey MJ, Saleh M, Snowman AM, Moran TH, Mezey E, Snyder SH. 2010. Inositol pyrophosphates inhibit Akt signaling, thereby regulating insulin sensitivity and weight gain. *Cell* 143(6):897-910.

18. **Bello NT**, Coughlin JW, Redgrave GW, Moran TH, Guarda AS. 2010. Oral sensory and cephalic hormonal responses to fat and non-fat liquids in bulimia nervosa. *Physiology & Behavior* 99(5):611-617.

17. **Bello NT**, Kemm MH, Ofeldt EM, Moran TH. 2010. Dose combinations of exendin-4 and salmon calcitonin produce additive and synergistic reductions in food intake in nonhuman primates. *American Journal of Physiology–Regulatory, Integrative and Comparative Physiology* 299(3):R945-952.

16. **Bello NT** and Hajnal A. 2010. Dopamine and binge eating behaviors. *Pharmacology Biochemistry and Behavior* 97(1):25-33. Invited Review

15. **Bello NT**, Guarda AS, Terrillion CE, Redgrave GW, Coughlin JW, Moran TH. 2009. Repeated binge access to a palatable food alters feeding behavior, hormone profile, and hindbrain c-Fos responses to a test meal in adult male rats. *American Journal of Physiology–Regulatory, Integrative and Comparative Physiology* 297:R622-631.

14. **Bello NT*** and Zahner MR. 2009. Tesofensine, a monoamine reuptake inhibitor for the treatment of obesity. *Current Opinion in Investigational Drugs* 10:1105-1116. Invited Review

13. **Bello NT**, Kemm MH, Moran TH. 2008. Salmon calcitonin reduces food intake through changes in meal sizes in male rhesus monkeys. *American Journal of Physiology–Regulatory, Integrative and Comparative Physiology* 295(1):R76-81.

12. Redgrave GW, Bakker A, **Bello NT**, Caffo BS, Coughlin JW, Guarda AS, McEntee JE, Pekar JJ, Reinblatt SP, Verduzco G, Moran TH. 2008. Differential brain activation in anorexia nervosa to Fat and Thin words during a Stroop task. *Neuroreport* 19(12):1181-1185.

11. **Bello NT** and Moran TH. 2008. GLP-1 agonists and satiety. *Immunology, Endocrine & Metabolic Agents in Medicinal Chemistry* 8(4):311-316. Invited Review

10. **Bello NT** and Moran TH. 2007. What happens in the vagus,…? *American Journal of Physiology–Regulatory, Integrative and Comparative Physiology* 292(6):R2122-2123. Editorial Focus Review

9. Albaugh VL, Henry CR, **Bello NT**, Hajnal A, Lynch SL, Halle B, Lynch CJ. 2006. Hormonal and metabolic effects of olanzapine and clozapine related to body weight in rodents. *Obesity* 14(1):36-51.

8. **Bello NT** and Hajnal A. 2006. Alterations in blood glucose under hyperinsulinemia affect accumbens dopamine*. Physiology & Behavior* 88(1-2):138-145.

7. **Bello NT** and Hajnal A. 2006. Acute methylphenidate treatments reduce sucrose intake in restricted-fed bingeing rats. *Brain Research Bulletin* 70(4-6):422-429.

6. Hajnal A, Covasa M, **Bello NT**. 2005. Altered taste sensitivity in obese, prediabetic OLETF rats lacking CCK-1 receptors. *American Journal of Physiology–Regulatory, Integrative and Comparative Physiology* 289(6): R1675-1686.

5. **Bello NT** and Hajnal A. 2005. Male rats show an indifference-avoidance response for increasing concentrations of the artificial sweetener sucralose. *Nutrition Research* 25(7):693-699.

4. **Bello NT**, Sweigart KL, Lakoski JM, Norgren R, Hajnal A. 2003. Restricted feeding with scheduled sucrose access results in an upregulation of the rat dopamine transporter. *American Journal of Physiology–Regulatory, Integrative and Comparative Physiology* 284(5):R1260-1268.

3. Curtis AL, **Bello NT**, Connolly KR, Valentino RJ. 2002. Corticotropin-releasing factor neurones of the central nucleus of the amygdala mediate locus coeruleus activation by cardiovascular stress. *Journal of Neuroendocrinology* 14(8):667-682.

2. **Bello NT**, Lucas LR, Hajnal A. 2002. Repeated sucrose access influences dopamine D2 receptor density in the striatum. *Neuroreport* 13(12):1575-1578.

1. Curtis AL, **Bello NT**, Valentino RJ. 2001. Evidence for functional release of endogenous opioids in the locus ceruleus during stress termination. *Journal of Neuroscience* 21(13):RC152 (pp. 1-5).

Book Chapters

6. Kshatriya D, Bello NT. 2020. Chapter 1 - Central Nervous System Stimulants and Drugs That Suppress Appetite in *Side Effects of Drugs Annual Vol. 42. A worldwide yearly survey of new data in adverse drug reactions* Edited by Sidhartha D. Ray. Elsevier (p.1-12).

5. **Bello NT***,* Kshatriya D. 2019. Chapter 1 - Central Nervous System Stimulants and Drugs That Suppress Appetite in *Side Effects of Drugs Annual Vol. 41. A worldwide yearly survey of new data in adverse drug reactions* Edited by Sidhartha D. Ray. Elsevier. (p.1-11).

4. Kshatriya D, **Bello NT**. 2018. Chapter 1 - Central Nervous System Stimulants and Drugs That Suppress Appetite in Side Effects of Drugs Annual Vol. 40. A worldwide yearly survey of new data in adverse drug reactions Edited by Sidhartha D. Ray. Elsevier (p. 1-9).

3. **Bello NT**, Zahner MR. 2017. Chapter 1 - Central Nervous System Stimulants and Drugs That Suppress Appetite in *Side Effects of Drugs Annual Vol. 39. A worldwide yearly survey of new data in adverse drug reactions* Edited by Sidhartha D. Ray. Elsevier (p. 1-8).

2. Zahner MR, **Bello NT.** 2016. Chapter 1 - Central Nervous System Stimulants and Drugs That Suppress Appetite in Side Effects of Drugs Annual Vol. 38. A worldwide yearly survey of new data in adverse drug reactions Edited by Sidhartha D. Ray. Elsevier (p.1-10).

1. **Bello NT**. 2015. Chapter 1 - Central Nervous System Stimulants and Drugs That Suppress Appetite in *Side Effects of Drugs Annual Vol. 37. A worldwide yearly survey of new data in adverse drug reactions* Edited by Sidhartha D. Ray. Elsevier (p. 1-13).

Invited Presentations (selected)

2021	"Weight control and dietary supplements. What we know about raspberry ketone [4(4-hydroxyphenyl)-2-butanone]." Division of Endocrinology, Metabolism and Nutrition, Rutgers – Robert Wood Johnson Medical School. March 26, 2021. Virtual
2020	"Raspberry ketone (4-4(hydroxyphenyl)-2-butanone effects on weight gain." Penn Center for Weight and Eating Disorders. University of Pennsylvania. December 4, Philadelphia, PA. Virtual
2018	"Consequences of dietary-induced binge eating in rodents." Seton Hall University. March 21, South Orange, NJ.
2015	"Reduced sensory-evoked activity of locus coeruleus-norepinephrine neurons following dietary-induced binge eating and relationship to NPY." 23rd Annual Meeting of the Society for the Study of Ingestive Behavior. July 11, Denver, CO.
2014	"Binge eating effects on brain norepinephrine. Is there clinical relevance from preclinical data?" Drug Safety and Research Development (DSRD), Pfizer. September 11, Groton, CT.
2013	"A cold and bitter treatment for obesity? Antiobesity effects of *Rhodiola rosea* (artic root) and *Citrus aurantium* (bitter orange)." 4th Annual Symposium on the Prevention of Metabolic Syndrome by Dietary Phytochemicals. October 10, University Park, PA.
2013	"Binge eating effects on brain norepinephrine. Is there clinical relevance from preclinical data?" Stress Neurobiology Lab Group, Children's Hospital of Philadelphia. May 24, Philadelphia, PA.
2013	"Binge eating effects on brain norepinephrine. Is there clinical relevance from preclinical data?" Appetite Seminar, Columbia University. May 2, New York, NY.
2012	"Dietary-induced binge eating and obesity effects on the noradrenergic control of feeding." 30th Annual Meeting of The Obesity Society. September 21, San Antonio, TX.
2011	"Opioid and cannabinoid involvement in dietary-induced binge eating in rodents." Experimental Biology: American Society for Pharmacology and Experimental Therapeutics. April 11, Washington, DC.

Awards and Honors

2008-2010	Ruth L. Kirschstein National Research Service Award Postdoctoral Fellowship, NIH/NIDDK
2009	Society for the Study of Ingestive Behavior New Investigator Travel Award *(postdoctoral)*
2006	Dean's Graduate Education Award for Scholarly Achievement, PSU College of Medicine
2006	Department of Neural and Behavioral Sciences Award for Outstanding Research Performance, PSU College of Medicine
2004	Society for the Study of Ingestive Behavior New Investigator Travel Award *(predoctoral)*
2004-2006	Ruth L. Kirschstein National Research Service Award Predoctoral Fellowship, NIH/NINDS
2002	Central Pennsylvania Chapter of the Society for Neuroscience Travel Award

Research Support

Effects of raspberry ketone on body weight and metabolic outcomes in obesity (Active)
Role: PI
Agency: NIH/NCCIH
Number & Type: R01AT008933 (01 May 2017 through 30 April 2023)
Total Amount: $ 1,679,056

Method optimization and validation to assess the *in vivo* bioavailability and metabolism of raspberry ketone (Active)
Role: PI
Agency: NIH/NCCIH
Number & Type: R01AT008933S (01 August 2019 through 30 April 2022)
Total Amount: $156,000

The Role of Lateral Hypothalamus Orexin Glucose-Inhibited Neurons in Binge-Eating Disorder (Active)
Role: PI (with Vanessa Routh, Rutgers New Jersey Medical School, Partnering PI)
Agency: DOD; USAMRAA
Number & Type: W81XWH1910016; Investigator-Initiated Research Award Partnering PI Option
(15 August 2019 through 14 August 2023; Funds expire 30 September 2024)
Total Amount: $1,019,612 to Bello

Early life bisphenol A exposure predisposes to binge eating in early adulthood (Active)
Role: Co-PI (with Morgan James, Rutgers Biomedical Health Science, Co-PI)
Agency: Center for Environmental Exposures and Disease
Number & Type: NIEHS Pilot Project (19 April 2021 through 31 March 2022)
Total Amount: $25,000

Dihydromyricetin derivatives for a novel treatment of alcohol use disorder and anxiety (Completed)
Role: Co-I (with James E. Simon, Department of Plant Biology, SEBS, Rutgers, PI)
Agency: New Jersey Health Foundation
Number & Type: Innovation Grant Program Phase II (01 February 2021 through 30 September 2021)
Total Amount: $47,000

Neural and metabolic contributors to weight regain following weight loss in obesity (Completed)
Role: PI
Agency: USDA-NIFA (01 March 2017 through 28 February 2022)
Type: Hatch Grant NJ06180
Total Amount: $20,000

Beneficial and adverse effects on human health and food safety (Active)
Role: PI
Agency: USDA-NIFA
Type: Multi-state Hatch Grant NJ06280 (12 December 2017 through 30 September 2022)
Total Amount: $30,000

The hypothalamic orexin system as a novel target for binge-eating pathology (Completed)
Role: Co-PI (with Gary Aston-Jones, Co-PI)
Agency: Rutgers BHI Collaborative project
Type: Pilot Project Grant (01 July 2017 through 30 June 2018)
Total Amount: $40,000

Consequences of Binge Eating on Food Demand (Completed)
Role: Co-PI (with Gary Aston-Jones, Co-PI)
Agency: Rutgers One Nutrition Grants Program (01 July 2016 through 30 June 2017)

Type: Pilot Project Grant
Total Amount: $20,000

Role of lateral hypothalamic glucose-inhibited orexin neurons in binge eating behavior (Completed)
Role: Co-PI (with Vanessa Routh, Co-PI)
Agency: Rutgers BHI Collaborative project (01 November 2015 through 31 October 2017)
Type: Pilot Project Grant
Total Amount: $40,000

Effects of lisdexamfetamine in binge eating mice with OPRM1 A118G polymorphism (Completed)
Role: PI
Agency: Shire Pharmaceuticals
Type: Investigator-initiated grant (01 May 2016 through 31 December 2018)
Total Amount: $87,725

Feeding and gastrointestinal consequences in rodent model of ADHD (Completed)
Role: PI
Agency: Rutgers Research Council
Type: Small Grant (01 July 2015 through 30 June 2016)
Total Grant Amount: $2,500

Beneficial and adverse effects on human health and food safety (Completed)
Role: PI
Agency: USDA-NIFA
Type: Multi-state Hatch Grant NJ06240 (16 July 2013 through 30 September 2017)
Total Grant Amount: $30,000

Neural consequences of dietary excess during adolescence (Completed)
Role: PI
Agency: USDA-NIFA
Type: Hatch Grant NJ061560 (01 February 2012 through 31 January 2017)
Total Grant Amount: $12,500

Dietary-induced binge eating effects on the noradrenergic controls of stress and feeding (Completed)
Role: PI
Agency: Klarman Family Foundation
Type: One-Year Pilot Project (01 June 2013 through 31 May 2014)
Total Grant Amount: $150,000

Effects of bulimic pathology on stress reactivity in humans and rats (Completed)
Role: PI
Agency: Rutgers, The State University of New Jersey; Office of the Vice President for Research and Economic Development
Type: Charles and Johanna Busch Biomedical Foundation Grant (01 July 2012 through 30 June 2014)
Total Grant Amount: $50,000

Peripherally-restricted opioid and cannabinoid antagonists actions on obesity (Completed)
Role: PI
Agency: New Jersey Institute for Food, Nutrition and Health
Type: Lipodomics Seed Grant (01 July 2012 through 30 June 2013)
Total Grant Amount: $30,000

Dose combination effects of *Citrus aurantium* and *Rhodiola rosea* on obesity (Completed)
Role: PI
Agency: Pennington Biomedical Research Center (NIH/NCCAM)
Type: Pilot Project Grant (01 September 2011 through 30 August 2012)

Total Grant Amount: $29,000

Binge eating effects on hindbrain mu-opioid activity (Completed)
Role: PI
Agency: NIH/NIDDK
Type: Ruth L. Kirschstein NRSA for Postdoctoral Fellows; PHS F32 DK078484 (01 March 2008 through 01 February 2010)
Total Grant Amount: $100,924

Effects of insulin on the mesoaccumbens dopamine system (Completed)
Role: PI
Agency: NIH/NINDS
Type: Ruth L. Kirschstein NRSA for Predoctoral Fellows; PHS F31 NS 04687 (01 March 2004 through 28 February 2006)
Total Direct Costs: $52,544

3.SERVICE

Editorial Boards

2021-Present *Obesities* (MDPI)
2020-Present *Frontiers in Psychology: Eating Behaviors* (Associate Editor)
2015-2020 *Journal of Veterinary Science and Animal Health*
2012-Present *Journal of Food and Nutritional Disorders*

Committees and Memberships

2022 NIH Study Section ZRG1 EMNR-K (02)
2021-Present COVID Shutdown Impact Animal Research Committee, Member
2020-2021 Emergency Operation Committee response to COVID-19; Animal Research Sub-committee, Rutgers University, Member
2020-Present Department of Animal Sciences, Strategic Planning Committee Member
2019-Present Controlled Substance Unit Coordinator for DEA scheduled substances for research. Rutgers School of Environmental and Biological Sciences
2018-Present Biological, Biomedical and Health Services Academic Cluster Committee, Rutgers School of Graduate Studies, Member
2018-Present Rutgers EAB graduate program Academic Standards Committee, Member
2016-Present Rutgers Biomedical Science Advisory Committee–New Brunswick, Member
2014-2018 Rutgers EAB graduate program Academic Standards Committee, Chair
2011-2016 Aresty Research Center Faculty Review Board Small Grants Program
2011-Present George H. Cook Honors Committee
2009-Present Scientific Advisory Committee for National PKU alliance
2013-2015 Review Panel, Busch Family Biomedical Grant at Rutgers
2012-Present New Jersey Obesity Group

Consultant

2021-2022 Cyclica Academic Partnership Program (CAPP) Collaboration Agreement Project – *Understanding of the polypharmacological profiles and repurposing opportunities for raspberry ketone and biological metabolites*
2018-Present Spencer Hall – Natural Products for Companion Animals
2015 DKBmed – *Missed Opportunities in the Recognition of Eating Disorders. MORe ED,* online RealCME series. AMA PRA Category 1 Credit

2014 Shire Pharmaceuticals – *Lisdexamfetamine for Binge Eating Disorder*
2012-Present Skolkovo Foundation, Expert Proposal Review Panel

August 1, 2022