

**Harvard Medical School
Curriculum Vitae**

Date Prepared: September 27, 2016
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Place of Birth: Calgary, Canada

Education

1998	B.S.	Chemical Engineering	Brigham Young University Provo, UT
2006	Ph.D.	Physiology Advisor: Dr. Allen W. Cowley Jr.	Medical College of Wisconsin Milwaukee, WI
2008	M.D.	Medicine	Medical College of Wisconsin Milwaukee, WI

Postdoctoral Training

06/08-06/09	Intern	Transitional Year Residency	Aurora St. Luke's Medical Center Milwaukee, WI
07/09-07/12	Resident	Anesthesia	Massachusetts General Hospital Boston, MA

Faculty Academic Appointments

07/12- Present	Instructor	Anesthesia	Harvard Medical School Boston, MA
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Appointments at Hospitals/Affiliated Institutions

07/11- Present	Research Affiliate	Brain and Cognitive Sciences	Massachusetts Institute of Technology, Cambridge, MA2014
07/12- Present	Assistant in Anesthesia	Anesthesia, Critical Care and Pain Medicine	Massachusetts General Hospital Boston, MA

Other Professional Positions

1998 - 2000	Engineer 1	Dura Pharmaceuticals, San Diego, CA
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Major Administrative Leadership Positions

National and International

2014	Invited Moderator of the scientific session: Experimental Neurosciences: Mechanisms	American Society of Anesthesiologists Annual Meeting, New Orleans, LA
2015	Invited Moderator of the scientific session: Experimental Neurosciences: Mechanisms	American Society of Anesthesiologists Annual Meeting, San Diego, CA
2016	Invited Moderator of the scientific session: Experimental Neurosciences: Mechanisms	American Society of Anesthesiologists Annual Meeting, Chicago, Ill

Committee Service

Local

2012-2015	Grand Rounds Steering Committee Member	MGH / Dept of Anesthesia
2016- Present	DACCPM Research Council Member	MGH / Dept of Anesthesia
2016- Present	DACCPM Quality Assurance Committee Member	MGH / Dept of Anesthesia

Professional Societies

2002	American Physiological Society	Member
2007	American Society of Anesthesiologists	Member
2009	Massachusetts Society of Anesthesiologists	Member
2011	Society for Neuroscience	Member
2007	American Society of Anesthesiologists	Member
	2014-Present	Member, Experimental Neurosciences Abstract Review Committee
2014	American Pain Society	Member
2015	Association of University Anesthesiologists	Associate Member
2016	International Anesthesia Research Society	Member

Editorial Activities

Ad Hoc Reviewer

BMC Anesthesiology

Honors and Prizes

1995	Golden Key Honor Society	Brigham Young University	International Honor Society
1996	Phi Kappa Phi	Brigham Young University	Academic Honor Society

1997	Tau Beta Pi	Brigham Young University	Engineering Honor Society
2003	Best graduate student presentation	American Physiological Society	
2004	Procter and Gamble Professional Opportunity Award	American Physiological Society	Best graduate student presentation
2005	Best graduate student presentation	American Physiological Society, Water & Electrolyte Homeostasis section	
2006	Hsueh-Hwa Wang award	American Physiological Society, Cardiovascular section	Best graduate student presentation
2006	Most Outstanding Ph.D Dissertation	Medical College of Wisconsin	
2007	Alpha Omega Alpha	Medical College of Wisconsin	Honor Medical Society
2008	J.J. Smith Award in Physiology	Medical College of Wisconsin	Top graduating medical student in Physiology
2011	Best Basic Science Abstract	Society of Anesthesia and Sleep Medicine	
2013	Junior Faculty Award	Association of University Anesthesiologists Annual Meeting	
2014	Annual Meeting Best Basic Science Abstract	American Society of Anesthesiologists	
2016	Junior Faculty Award	Association of University Anesthesiologists Annual Meeting	

Report of Funded and Unfunded Projects

Funding Information

Past

- 2002 - 2006 Integrated Physiology Training – Molecule to Organism
NIH T32 – 5T32HL007852-08
Trainee Investigator
The goal of this study was to determine the source and consequence of scavenging renal medullary ROS on salt-induced hypertension using chronically instrumented rats.

- 2004 - 2005 Role of Reactive Oxygen Species in the Regulation of Renal Medullary Function and Blood Pressure
AHA Pre-doctoral Fellowship - AHA-04100437
Principal Investigator
The goal of this study was to determine the consequence of scavenging renal medullary hydrogen peroxide on salt-induced hypertension using chronically instrumented rats.
- 2012-2015 Basic Science Research Training Grant for Anesthetists
NIH T32 – GM07592
Trainee Investigator
The goals of this study were to identify CNS arousal pathways that induce emergence from general anesthesia, and to establish the behavioral and neurophysiological correlates of active emergence.

Current

- 2014-2016 The Role of GABAergic and Dopaminergic Neurons in the Periaqueductal Gray on the Descending Inhibition of Pain
Foundation for Anesthesia Education and Research (Mentored Research Training Grant-Basic Science)
Principal Investigator (\$175,000)
The goal of this project was to define the complex neural circuitry in the PAG to specifically induce antinociception without producing undesirable psychiatric and physiologic side effects often seen with electrical stimulation.

Current Unfunded Projects

- 2017-2022 MGH Center for Opioid Research and Education (MGH-CORE)
NIH-NIDA, - PAR-16-009 [NIDA Research Center of Excellence Grant Program (P50)
Project Co-Investigator (\$1,250,000)
The goal of this project is to characterize the relevance of the VTA in opioid-induced analgesia, tolerance and reward and the impact on the VTA-controlled dopamine levels of chronic opioid use and/or chronic pain.
- 2017-2022 The Analgesic Effects of Dopamine
NIH-NIGMS, - K08-GM121951-01, 10/01/16 – 09/31/21, 9 Cal Mos
Principal Investigator (\$750,000)
The goal of this project is to determine the effect that dopamine neurons in the periaqueductal gray play in reducing pain.
- 2013-2016 Scientific advisor, Clinical supervision of ketamine infusion / Electroencephalogram Studies of Sub-Anesthetic Doses of Ketamine In Patients With Major Depressive Disorder
The goal of this study is to determine the EEG patterns exhibited by patients with Major Depressive Disorder and how ketamine infusions effect these patterns
- 2014-2016 Scientific advisor, Clinical supervision of ketamine infusion / “The Neural Circuitry of Ketamine in Major Depression
This is a PET imaging study with the goal to understand the neural mechanism by which Ketamine exerts its antidepressant effect

Report of Local Teaching and Training

Teaching of Students in Courses

2013	Classroom to Clerkship Transition Course Medical students	Massachusetts General Hospital 2hrs/week 1 week
2014	Classroom to Clerkship Transition Course Medical students	Massachusetts General Hospital 2hrs/week 1 week
2015	Classroom to Clerkship Transition Course Medical students	Massachusetts General Hospital 2hrs/week 1 week

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)

2012	Difficult airway workshop Anesthesia residents	Massachusetts General Hospital 3hrs/week for 1 week
2015	Neurosurgery rotation didactic lectures Anesthesia residents	Massachusetts General Hospital 1hr/week for 3 weeks

Clinical Supervisory and Training Responsibilities

2012- present	Supervision and teaching of residents and medical students / MGH	10 hrs/week, 45 weeks/year
2012- present	Intensive one on one tutorial of anesthesia resident in first month of training / MGH	50 hrs/week, 2 weeks/year

Laboratory and Other Research Supervisory and Training Responsibilities

2013- 2014	Supervision/research training of Masters student.	30 hours/week, 6 months/year
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Formally Supervised Trainees

2012-2015	Caroline Hunter, M.D. / Anesthesia Resident, MGH I taught Dr. Hunter exclusively during the first two weeks of her anesthesiology residency at MGH, and served as her advisor and clinical mentor. She is currently a cardiovascular anesthesia fellow at the Massachusetts General Hospital, Boston, MA.
2013-2014	Somi Kim, DDS / Oral Surgery Resident, MGH I taught Dr. Kim exclusively during the first two weeks of her anesthesia rotation during her residency at MGH. She is currently an attending at the Massachusetts General Hospital, Boston, MA.
2013-2016	Jason Lee, M.D. / Anesthesia Resident, MGH I taught Dr. Lee exclusively during the first two weeks of his anesthesiology residency at MGH, and I currently serve as his advisor and clinical mentor. He is currently an attending at Harbor UCLA Medical Center, Los Angeles, CA.

- 2014- Grettel Zamora, M.D. / Anesthesia Resident, MGH
I taught Dr. Zamora exclusively during the first two weeks of her anesthesiology residency at MGH, and I currently serve as her advisor and clinical mentor.
- 2015- Mara Kenger, M.D. / Anesthesia Resident, MGH
I taught Dr. Kenger exclusively during the first two weeks of her anesthesiology residency at MGH, and I currently serve as her advisor and clinical mentor.
- 2015- JunZhu Pei / Research Technologist, MGH
I trained and currently supervise Ms. Pei as a Research Technologist.
- 2016- Eric Abhold, M.D. / Anesthesia Resident, MGH
I taught Dr. Abhold exclusively during the first two weeks of his anesthesiology residency at MGH, and I currently serve as his advisor and clinical mentor
- 2016 Jade Smith / Summer Student, MGH
I trained and supervised Ms. Smith in my laboratory as part of the Summer Research Training Program.

Local Invited Presentations

- 2003 The Role of Hydrogen Peroxide in the Maintenance of Salt-induced Hypertension in the Dahl SS rat / Physiology Department Seminar, Medical College of Wisconsin, Milwaukee, WI.
- 2004 The Role of NADPH oxidase in the Maintenance of Salt-induced Hypertension in the Dahl SS rat / Physiology Department Seminar Medical College of Wisconsin, Milwaukee, WI.
- 2005 The Role of Reactive Oxygen Species in the Maintenance of Salt-induced Hypertension in the Dahl S rat /Medical Scientist Training Program Seminar Medical College of Wisconsin, Milwaukee, WI.
- 2012 The Role of Dopaminergic Arousal Pathways in Promoting Emergence from General Anesthesia/ Meeting of the Harvard Anesthesia Department Chairs Massachusetts General Hospital, Boston, MA
- 2014 Optogenetic Stimulation of Dopamine Neurons in the Ventral Tegmental Area Induces Reanimation From General Anesthesia / Meeting of the Harvard Anesthesia Department Chairs, Massachusetts General Hospital, Boston, MA
- 2015 Dopamine: A New Target in the Treatment of Pain / Grand rounds, Department of Anesthesia, Critical Care and Pain Medicine, Massachusetts General Hospital, Boston, MA

Report of Regional, National and International Invited Teaching and Presentations

Invited Presentations and Courses

National

- 2006 NOS uncoupling in the kidney of Dahl S rats – role of dihydrobiopterin, / Abstract Selected for Oral Presentation
AHA Council of High Blood Pressure Research annual meeting, San Antonio, TX
- 2013 Optogenetic Stimulation of Dopamine Neurons in the Ventral Tegmental Area Induces Reanimation From General Anesthesia / Abstract Selected for Oral Presentation
Selected for the Junior Faculty award at the Association of University Anesthesiologists (AUA) Annual Meeting, Miami, FL
- 2013 Optogenetic Stimulation of Dopamine Neurons in the Ventral Tegmental Area Induces Reanimation From General Anesthesia / Abstract Selected for Oral Presentation *in the Best of Abstracts* session
American Society of Anesthesiology (ASA) Annual Meeting, San Francisco, CA
- 2014 The Role of Glutamatergic and Dopaminergic neurons in the Periaqueductal Gray on the Descending Inhibition of Pain / Abstract Selected for Oral Presentation, *selected as the Best Basic Science Abstract*
American Society of Anesthesiology (ASA) Annual Meeting, New Orleans, LA
- 2016 Reanimation: Inducing Active Emergence from General Anesthesia
New England Assembly of Nurse Anesthetists Annual Meeting, Boston, MA
- 2016 The Analgesic Effects of Dopamine / Abstract Selected for Oral Presentation
Selected for the Junior Faculty award at the Association of University Anesthesiologists (AUA) Annual Meeting, San Francisco, CA

International

- 2013 Current Topics in Critical Care / Lecture series to Internal Medicine and Pediatric Residents sponsored by Health Frontiers, Vientiane, Laos
Sponsored by Health Frontiers, Vientiane, Laos

Report of Clinical Activities and Innovations

Current Licensure and Certification

- 2009 United States Medical Licensing Examination
2012 Massachusetts Medical License

Practice Activities

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| 2012-
Present | Anesthesiology | Mass. General Hospital | 1 day / week |
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Report of Scholarship

Publications

Peer reviewed publications in print or other media

1. Yuan B, M Liang Z Yang E, Rute **N Taylor**, M Olivier, and AW Cowley, Jr. Gene expression reveals vulnerability to oxidative stress and interstitial fibrosis of renal outer medulla to non-hypertensive elevations of AngII. *Am J Physiol Regul Integr Comp Physiol*. 2003; 84(5): R1219-1230. PMID: 12676744.
2. **Taylor NE** and Cowley AW Jr. Effect of renal medullary H₂O₂ on salt-induced hypertension and renal injury. *Am J Physiol Regul Integr Comp Physiol*. 2005; 289(6):R1573-9. PMID: 16109803.
3. **Taylor NE**, Glocka P, Liang M, Cowley AW Jr. NADPH oxidase in the renal medulla causes oxidative stress and contributes to salt-sensitive hypertension in Dahl S rats. *Hypertension*. 2006; 47(4): 692-698. PMID: 16505210.
4. **Taylor NE**, Maier K, Roman R, Cowley AW Jr. NOS uncoupling in the kidney – role of dihydrobiopterin. *Hypertension*. 2006; 48(6):1066-71. PMID: 17060509.
5. Liu Y, **Taylor NE**, Lu L, Usa K, Cowley AW. Jr, Ferreri NR, Yeo NC, Liang M. Renal medullary microRNAs in Dahl salt-sensitive rats: miR-29b regulates several collagens and related genes. *Hypertension*. 2010; 55(4):974-82. PMID: 20194304.
6. **Taylor NE**, Chemali JJ, Brown EN, Solt K. Activation of D1 dopamine receptors induces emergence from isoflurane general anesthesia. *Anesthesiology*. 2013;118(1):30-9. PMID: 23221866 **with accompanying editorial** by Benveniste H, Volkow ND. Dopamine-enhancing Medications to Accelerate Emergence from General Anesthesia. *Anesthesiology*. 2013;118(1):5-6. PMID: 23221866.
7. Solt K, Van Dort CJ, Chemali JJ, **Taylor NE**, Kenny JD, Brown EN. Electrical Stimulation of the Ventral Tegmental Area Induces Reanimation from General Anesthesia. *Anesthesiology*. 2014; 121(2):311-9. PMID: 24398816.
8. Chemali JJ, Kenny JD, Olutola O, **Taylor NE**, Kimchi E, Purdon PL, Brown EN, Solt K. Ageing Delays Emergence from General Anaesthesia in Rats by Increasing Anaesthetic Sensitivity in the Brain. *British Journal of Anesthesia*. 2015; 115 Suppl 1:i58-i65. PMID: 26174302.
9. Kenny JD, **Taylor NE**, Brown EN, Solt K. Dextroamphetamine (but not Atomoxetine) Induces Reanimation from General Anesthesia: Implications for the Roles of Dopamine and Norepinephrine in Active Emergence. *PLoS One*. 2015; 10(7):e0131914. PMID: 26148114.
10. Ionescu DF, Swee MB, Pavone KJ, **Taylor NE**, Akeju O, Baer L, Nyer M, Cassano P, Mischoulon D, Alpert JE, Brown EN, Nock MK, Fava M, Cusin C. Rapid and Sustained Reductions in Current Suicidal Ideation Following Repeated Doses of Intravenous Ketamine. *Journal of Clinical Psychiatry*. J Clin Psychiatry. 2016; 77(6):e719-25. PMID: 27232360.
11. Cusin C,* Ionescu DF,* Pavone KJ, Akeju O, Cassano P, **Taylor N**, Eikermann M, Durham K, Swee MB, Chang T, Dording C, Soskin D, Kelley J, Mischoulon D, Brown EN, Fava M. *Co-first authors. Ketamine augmentation for outpatients with treatment-resistant depression: preliminary evidence for

two-step intravenous dose escalation. *Aust N Z J Psychiatry*. 2016; Feb 18. [Epub ahead of print]. PMID: 26893373.

12. Kenny JD, Chemali JJ, Cotton JF, Van Dort CJ, Kim SE, Ba D, **Taylor NE**, Brown EN, Solt K. Physostigmine and Methylphenidate Induce Distinct Arousal States During Isoflurane General Anesthesia in Rats. *Anesthesia and Analgesia*. 2016 Mar 17. [Epub ahead of print]. PMID: 26991753.
13. Muindi F, Kenny JD; **Taylor NE**, Solt K, Wilson MA, Brown EN, Van Dort CJ. Electrical Stimulation of the Parabrachial Nucleus Induces Reanimation from Isoflurane General Anesthesia. *Behavioural Brain Research*. 2016; 306:20-5. PMID: 26971629.
14. **Taylor NE**, Van Dort CJ, Kenny JD, Pei J, Guidera JA, Lee JT, Vlasov KY, Brown EN,* Solt K.* *Co-senior authors. Optogenetic Activation of Dopamine Neurons in the Ventral Tegmental Area Induces Reanimation from General Anesthesia. *PNAS*. In press 2016.
15. Herranz E, Gianni, C, Louapre C, Andrada Treaba CA, Govindarajan ST, Ouellette R, Loggia ML, Sloane JA, Izquierdo-Garcia D, Ward N, Mangeat G, Klawiter EC, Catana C, Hooker JM, **Taylor N**, Kinkel RP, Mainero C. The neuroinflammatory component of gray matter pathology in multiple sclerosis by ¹¹C-PBR28 and 7 Tesla imaging. *Annals of Neurology*. In press 2016.

Thesis

1. **Taylor NE**. The Role of renal medullary reactive oxygen species in salt-sensitive hypertension [Ph.D. dissertation]. Milwaukee, (WI): Medical College of Wisconsin, 2006.

Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings

1. **Taylor, N.** and A.W. Cowley, Jr. Role of H₂O₂ in the maintenance of salt-induced hypertension in the Dahl salt-sensitive rat. *The Physiologist*, 2003; 46(4):241-242. *Awarded 1st Place Abstract, American Physiological Society Conference, Augusta, GA.*
2. **Taylor N**, Liang M, AW Cowley, Jr. Rescue of salt-sensitive hypertensive trait in consomic SSBN13 rats by elevations of renal medullary H₂O₂. *FASEB J*. 2004; 18(5):A1322. *American Physiological Society Procter & Gamble Professional Opportunity Award, Experimental Biology Annual Meeting, Washington D.C.*
3. **Taylor NE**, Tadish-Rhodes G, Kurth T, Rute L, Skelton MM and AW Cowley, Jr. Pressure directly induces oxidative stress in the renal medulla of Sprague Dawley rats with blunted nitric oxide. *FASEB J*. 2005; 19(5):A1588, 2005. *American Physiological Society Water & Electrolyte Homeostasis Section Research Recognition Award, Experimental Biology Annual Meeting, San Diego.*
4. **Taylor NE**, Glocka P, Liang M, Cowley, AW Jr. The contribution of renal medullary NADPH oxidase and mitochondrial superoxide production to salt-induced hypertension in Dahl S rat. *FASEB J*. 2006; 20(4):A724. *American Physiological Society Cardiovascular Section Hsueh-Hwa Wang Award, Experimental Biology Annual Meeting, San Francisco.*
5. **Taylor NE**, Chemali JJ, Brown EN, Solt K. The D1 dopamine receptor agonist chloro-APB induces emergence from isoflurane anesthesia. *Awarded 1st Place Abstract, Society of Anesthesia and Sleep Medicine Annual Meeting, Chicago, IL, 2011.*

6. Solt K, Van Dort CJ, Chemali JJ, **Taylor NE**, Brown EN. Electrical microstimulation of the ventral tegmental area induces emergence from general anesthesia. *Awarded 1st Place Abstract, Society of Anesthesia and Sleep Medicine Annual Meeting*, Washington, DC, 2012.
7. Solt K, Van Dort CJ, Chemali JJ, **Taylor NE**, Brown EN. Electrical microstimulation of the ventral tegmental area induces emergence from general anesthesia. Program A543, 2012 Meeting Planner, San Diego, CA. *American Society of Anesthesiology Annual Meeting*, 2012.
8. Solt K, Van Dort CJ, Chemali JJ, **Taylor NE**, Brown EN. VTA stimulation induces emergence from general anesthesia. Program 74.17, 2012 Neuroscience Meeting Planner, New Orleans, LA. *Society for Neuroscience Annual Meeting*, 2012.
9. **Taylor NE**, Van Dort CJ, Kenny J, Brown EN, Solt K. Optogenetic Stimulation of Dopamine Neurons in the Ventral Tegmental Area Induces Reanimation From General Anesthesia. *Selected for Oral Presentation and Junior Faculty Award, Association of University Anesthesiologists Annual Meeting*, Miami, FL, 2013.
10. **Taylor NE**, Van Dort CJ, Kenny J, Brown EN, Solt K. Optogenetic Stimulation of Dopamine Neurons in the Ventral Tegmental Area Induces Reanimation From General Anesthesia. *Selected for presentation in the Best of Abstracts session*. Program BOS01, 2013 Meeting Planner, San Francisco, CA. *American Society of Anesthesiology Annual Meeting*, 2013.
11. **Taylor NE**, Van Dort CJ, Kenny J, Brown EN, Solt K. Reanimation From General Anesthesia induced by Optical Control of Dopamine Neurons in the Ventral Tegmental Area. Program 839.12, 2013 Neuroscience Meeting Planner San Diego, CA. *Society for Neuroscience Annual Meeting*, 2013.
12. Feng HJ, Zeng C, Liu K, **Taylor NE**, Cotten J, Solt K, Long X, Randall M, Faingold C, and Feng G. Characterization of respiratory arrest-susceptible DBA/1 TPH2-ChR2 mice. 2014 PAME Meeting Planner, Minneapolis, MN. *Partners Against Mortality in Epilepsy meeting*, 2014.
13. **Taylor NE**, Zeng S, Van Dort CJ, Brown EN, Solt K. The Role of Glutamatergic and Dopaminergic neurons in the Periaqueductal Gray on the Descending Inhibition of Pain. *Selected as Best Basic Science Abstract*. Program BOS08, 2014 Meeting Planner, New Orleans, LA. *American Society of Anesthesiology Annual Meeting*, 2014.
14. **Taylor NE**, Zeng S, Van Dort CJ, Brown EN, Solt K. DREADD Activation of Dopaminergic Neurons in the Periaqueductal Gray Produces Antinociception. Program 337.07, 2014 Neuroscience Meeting Planner, Washington D.C. *Society for Neuroscience Annual Meeting*, 2014.
15. Muindi F, Van Dort CJ, Kenny J, **Taylor NE**, Solt K, Brown EN. Electrical stimulation of the parabrachial nucleus induces reanimation from general anesthesia. Program 549.11, 2014 Neuroscience Meeting Planner, Washington D.C. *Society for Neuroscience Annual Meeting*, 2014.
16. **Taylor NE**, Pei J, Van Dort CJ, Brown EN, and Solt K. (325) DREADD activation of dopaminergic and glutamatergic neurons in the periaqueductal gray produces differing analgesic responses. *The Journal of Pain* 16, S57, 2015.

17. **Taylor NE**, Pei J, Vlasov KY, Guidera JA, Solt K, Brown EN. The Analgesic Effects of Dopamine. *Selected for Oral Presentation and Junior Faculty Award, Association of University Anesthesiologists Annual Meeting*, San Francisco, CA, 2016.
18. Kenny JD, **Taylor NE**, Lee JT, Guidera JA, Brown EN, Solt K. Electrical Stimulation of the Ventral Tegmental Area Restores the Ability to Perform a Touchscreen-based Visual Discrimination Task in Rats Sedated with Isoflurane. *Association of University Anesthesiologists Annual Meeting*, San Francisco, CA, 2016.
19. Feng HJ, Zhang H, Zhao H, Zeng C, Van Dort CJ, Faingold CL, **Taylor NE**, Solt K. Deficits of 5-HT-Mediated Arousal Are Implicated in Seizure-Induced Respiratory Arrest. *Partners Against Mortality in Epilepsy*, Stockholm, Sweden, 2016.
20. Kenny JD, **Taylor NE**, Pei J, Yang J-Y, Vlasov KY, Brown EN, Solt K. Performance of a touchscreen-based visual discrimination task is restored with electrical stimulation of the ventral tegmental area (VTA) in rats sedated with isoflurane. *Best Neuroscience Abstract Award and Kosaka Award for Outstanding Basic Science Abstract, International Anesthesia Research Society Annual Meeting*, San Francisco, CA, 2016.