June 2021

Curriculum Vitae
Fabricio H. Do Monte, DVM, PhD

PRESENT TITLE: Assistant Professor
Department of Neurobiology and Anatomy

WORK ADDRESS: 6431 Fannin Street, Room 7.166
McGovern Medical School
The University of Texas Health Science Center
Houston, Texas 77030 - Phone: (713) 500-5613
Lab web page: https://sites.google.com/view/domontelab/home

CITIZENSHIP: Brazil, US permanent residency

UNDERGRADUATE EDUCATION:

1998-2002 Bachelor's in Veterinary Medicine.
Universidade do Estado de Santa Catarina, UDESC, Lages, Brazil

GRADUATE EDUCATION:

2004-2006 Master's in General Pharmacology
Universidade Federal de Santa Catarina, UFSC, Florianópolis, Brazil
Advisor: Dr. Antonio P. Carobrez

2006-2010 Doctorate in Neuropharmacology
Universidade Federal de Santa Catarina, UFSC, Florianópolis, Brazil
Advisor: Dr. Antonio P. Carobrez

POSTGRADUATE TRAINING:

2010-2016 Postdoctoral Fellow and Research Associate
Department of Psychiatry
University of Puerto Rico School of Medicine, San Juan, Puerto Rico
Advisor: Dr. Gregory J. Quirk

ACADEMIC APPOINTMENTS:

Dec/2016 - present Assistant Professor, Department of Neurobiology and Anatomy
McGovern Medical School
The University of Texas Health Science Center at Houston

Feb/2017 - present Regular Member, MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences

Jan/2019 - present Affiliate Professor, Rice Neuroengineering Initiative
Rice University

PROFESSIONAL ORGANIZATIONS:

2007- present	Member, Society for Neuroscience
2009- present	Member, Molecular and Cellular Cognition Society
2012- present	Board member, Faculty of 1000
2015- 2016	Council Member, Molecular and Cellular Cognition Society
2019- present	Minority Task Force- Ad Hoc Member, American College of Neuropshychopharmacology
2021-present	Member, Gulf Coast Consortia, Mental Health Research Cluster
2021-present	Member, International Behavioral Neuroscience Society

HONORS AND AWARDS:

1999-2002	Predoctoral Fellowship, National Institute for Scientific and Technological Development of Brazil
2004-2006	Master's Fellowship, National Institute for Scientific and Technological Development of Brazil
2006-2010	Doctoral Fellowship, National Institute for Scientific and Technological Development of Brazil
2007	Travel award from Brazilian Society of Behavior and Neuroscience to attend the Society for Neuroscience meeting 2007, San Diego, CA
2009	Travel award from the International Brain Research Organization (IBRO) to attend the Society for Neuroscience meeting 2009, Chicago, IL
2009	Travel award from IBRO to attend the Short-term Course in Neuroscience, Latin American School of Neuroscience 2009, Montevideo, Uruguay
2010	Poster award in the 23rd European College of Neuropsychopharmacology Congress 2010, Amsterdam, The Netherlands
2011	Travel award from the University of Wisconsin to attend Wisconsin Symposium on Emotion 2011, Madison, WI
2012	Travel award from the Federation of European Neuroscience Societies (FENS) to attend the FENS Forum, Barcelona, Spain
2014	Travel award from Simons Foundation Autism Research Initiative (SFARI) to attend the Gordon Research Conference on Amygdala in Health & Disease 2015, Stonehill College, Easton, MA
2018-2020	Travel Awardee from the American College of Neuropsychopharmacology (ACNP) to attend the 2018 ACNP meeting, Hollywood, FL
2019	Rising Stars Lecture Award from the National Institutes of Health (NIH)

EDITORIAL POSITIONS:

Ad-hoc reviewer for:
Behavioural Brain Research
Brain Research
Brain Structure and Function
Biological Psychiatry
Cell Reports
eLife
eNeuro
Journal of Neurophysiology
Learning & Memory

Nature Communications
Nature Neuroscience
Neuron
Neuropsychopharmacology
Psychopharmacology
The Journal of Neuroscience

SERVICE ON GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

Ad-hoc Reviewer, Danish Council for Research in Medical Sciences, 2015
Ad-hoc Reviewer, Rosetrees Trust Medical Research, 2017
Ad-hoc Reviewer, ConTex Collaborative Research Grants Competition, 2019
Ad-hoc Reviewer, ConTex Collaborative Research Grants Competition, 2020
Member, NIH Study section panel RFA-NS-19-043, Brain Initiative K99/R00, 2020
Member, NIH Study section panel RFA-NS-19-044 (Clinical trial), Brain Initiative K99/R00, 2020
Member, NIH Special Emphasis Panel, Brain K99/R00, 2020

SERVICE ON THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT HOUSTON COMMITTEES:

2019 - present Animal Welfare Committee

SERVICE ON DEPARTMENTAL COMMITTEES:

2019 - 2020 Faculty Search Committee
2020 - 2021 Faculty Search Committee

SERVICE ON GRADUATE SCHOOL COMMITTEES:

2017 - present Neuroscience Program Admissions Sub-Committee
2019 - present Neuroscience Graduate Program Steering Committee
2019 - present GSBS Student Scholarship Committee

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

2019 - present Cana Quave
2019 - present Xu Zhang

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

2017 - 2017 Naubahar S. Agha
2017 - 2018 Ana LuisaTerzian
2017- 2019 Jose Fernandez-León
2017 - present Douglas S. Engelke
2020 - present Guillermo Aquino-Miranda

SPONSORSHIP OF GRADUATE STUDENTS IN ROTATION:

Spring - 2018 Melissa Franch
Spring - 2018 Yue Yu
Fall - 2018 Xu Zhang
Spring - 2019 Cana Quave
Spring - 2020 Cuauhtemoc Ulises Gonzalez

SPONSORSHIP OF UNDERGRADUATE STUDENTS:

2018 - 2019 Leah Olivo (Rice University)
2018 - 2020 Riya Albert (Rice University)
2018 - 2020 Harvey Zhou (Rice University)
2018 - present Andres Vasquez (Rice University)
2020 - present Alexandria Goodson (Rice University)

SPONSORSHIP OF UNGRADUATE STUDENTS IN SUMMER INTERNSHIP:

Summer - 2017 Anika Tanwani (UT-Austin)
Summer - 2018 Leah Olivo (Rice University)
Summer - 2019 Andrez Vasquez ((Rice University)
Summer - 2020 Chinenye Lucy Chidomere (University of Houston)
Summer - 2020 Esha Bora (Seven Lakes High-School)
Summer - 2021 Claire Cho (Rice University)
Summer - 2021 Matias Cattani (Tufts University)

SPONSORSHIP OF VISITING STUDENTS:

2019 - 2019 Guillermo Aquino-Miranda (Metropolitan Autonomous University- Mexico)
2019 - 2019 León Gerónimo Velázquez-Hernández (UNAM - Mexico)
2020 - 2020 Roberto J. Morales (Ponce Health Science University)

GRADUATE STUDENT ADVISORY/EXAMINATION COMMITTEES:

2017- 2017 Ariana Andrei (Ph.D.)
2018 - 2018 Rafael Scoz (Ph.D)
2018 - 2021 Natasha Kharas (Ph.D.)
2018 - 2021 Renan Costa (Ph.D.)
2018 - present Melissa Frank (Ph.D.)
2019 - present Jing Cai (Ph.D.)
2021 - 2021 Hugo Bayer (Master)

CURRENT TEACHING RESPONSIBILITIES

2018 Lecturer, Grand Rounds, Department of Psychiatry, UTH
2018 - 2019 Lecturer, GSBS, Cognitive Neuroscience (GS141173)
2019 - present Lecturer, GSBS, Core Course, Signaling Systems and Stress (GS211017)
2020 - present Course Director, GSBS, Neurocircuits and Behavior (GS141223)
2020 Lecturer, Translational Psychiatry Program, McGovern Medical School (scheduled for Fall-2020)
2020 Lecturer, GSBS, Current Topics in Neuroscience (GS141611)
2021 Lecturer, GSBS, Systems Neuroscience (GS141024)

CURRENT GRANT SUPPORT:

2020 - 2025 NIH Research Grant (Principal Investigator)
Title: Neural Circuits Balancing Reward-Approaching with Threat-Avoidance

Grant Number: R01-MH120136
Period of support: 04/15/2020- 02/28/2025

PREVIOUS GRANT SUPPORT:

2004 - 2006 National Institute for Scientific and Technological Development of Brazil - CNPq (Principal Investigator)
Title: Participation of beta-adrenergic receptors in the modulation of innate fear responses
Period of support: 03/01/2004 – 02/28/2006

2004 - 2006 National Institute for Scientific and Technological Development of Brazil - CNPq (Principal Investigator)
Title: Participation of beta-adrenergic receptors in the modulation of innate fear responses
Period of support: 03/01/2004 – 02/28/2006

2006 - 2010 National Institute for Scientific and Technological Development of Brazil - CNPq (Principal Investigator)
Title: The noradrenergic system in the mechanisms of extinction and reconsolidation of aversive memories
Period of support: 03/01/2006 – 02/28/2010

2015 - 2016 NIH Research Grant (Principal Investigator)
Title: Thalamic circuits in the integration of fear and reward
Grant Number: K99-MH105549 (Pathway to Independence Award K99/R00)
Period of support: 04/01/2015- 08/30/2016

2016 - 2019 Rising STAR Award (Principal Investigator)
Title: Faculty Science and Technology Acquisition and Retention (STARs) Program
Period of support: 12/05/2016-12/04/2019

2016 - 2019 NIH Research Grant (Principal Investigator)
Title: Thalamic circuits in the integration of fear and reward
Grant Number: R00-MH105549 (Pathway to Independence Award K99/R00).
Period of support: 09/15/2016- 12/31/2019

2019 - 2021 NARSAD Young Investigator Grant (Principal Investigator)
Brain & Behavior Research Foundation
Title: Overcoming fear to obtain food: a neural circuit study
Period of support: 01/15/2019-01/14/2021

PUBLICATIONS

A. Abstracts in scientific conferences (as PI)

1. Engelke, DS; Terzian, AL; Rasheed, MN; Fernandez-León, J; **Do Monte, FH**. Paraventricular thalamus balances reward seeking with the risk of predation. Federation of European Neuroscience Societies meeting 2018, Berlin, Germany.

2. Fernandez-León, J; Engelke, DS; Rasheed, MN; Terzian, AL, **Do Monte, FH**. Neuronal correlates of reward vs. fear memory discrimination in the prelimbic cortex. Society for Neuroscience meeting 2018, San Diego, CA.
3. Terzian, AL; Engelke, DS; Rasheed, MN; Li, S; O'Malley, JJ; Dasgupta, R; Fernandez-León, J; Justice, NJ; Beierlein, M; Kirouac, GJ; **Do Monte, FH**. CRF neurons in the paraventricular thalamus reduce food-seeking behavior. Society for Neuroscience meeting 2018, San Diego, CA.
4. Engelke, DS; Fernandez-León, J; Terzian, A.L.; Rasheed, MN; **Do Monte, FH**. Balancing food seeking with the risk of predation recruits the paraventicular thalamus. Society for Neuroscience meeting 2018, San Diego, CA.
5. Engelke, DS**;** Rasheed, MN; Terzian, AL; Fernandez-León, J; Olivo, L; **Do Monte, FH**. Elucidating the neural circuits regulating emotional memories. GSBS Poster Session 2018, Houston, TX.
6. Zhang, X; Terzian, AL; Engelke, DS; Rasheed, MN; Li, S; O'Malley, JJ; Dasgupta, R; Fernandez-León, J; Justice, NJ; Beierlein, M; Kirouac, GJ; **Do Monte, FH**. CRF neurons in the paraventricular thalamus reduce food-seeking behavior. UTH Poster Session 2018, Houston, TX.
7. Olivo, L; Engelke, DS; **Do Monte, FH**. Effects of different fasting regimens on innate fear responses in rats. Learning & Memory Conference 2018, Austin, TX.
8. Engelke, DS; Olivo, L; Fernandez-León, J; O'Malley, JJ; Vasquez, A; Li, S; Kirouac, GJ; Beierlein, M; **Do Monte, FH**. Corticotropin-releasing factor (CRF) neurons in the paraventricular thalamus balance food seeking with the risk of predation. Learning & Memory Conference 2018, Austin, TX.
9. Fernandez-León, J; Engelke, DS; Albert, R; **Do Monte, FH**. Foraging at the edge of fear: neural correlates of memory discrimination in the prelimbic cortex. Learning & Memory Conference 2018, Austin, TX. **Best Poster Award.*
10. Engelke, DS; Olivo, L; Zhang, X; Fernandez-León, J; O'Malley, JJ; Li, S, Kirouac, GJ; Beierlein, **Do Monte, FH**. Trick or threat: the balance between reward-seeking and the risk of predation recruits the paraventricular thalamus. Gordon Research Conference "Amygdala Function in Emotion, Cognition and Disease" 2019, Easton, MA.
11. Fernandez-León, J; Engelke, DS; Albert, R; **Do Monte, FH**. Foraging at the edge of fear: neural correlates of memory discrimination in the prelimbic cortex. Gordon Research Conference "Amygdala Function in Emotion, Cognition and Disease" 2019, Easton, MA.
12. Quave, C, Vasquez, AM, Engelke, DS, **Do Monte, FH**. Fentanyl and morphine differentially affect risk-taking behavior in rats. 2019 GSBS Neuroscience Graduate Program Annual Retreat. Cleveland, TX.
13. Zhang, XO, Engelke, DS; O'Malley, JJ; Fernandez-León, JA; Li, S, Kirouac, GJ; Beierlein, **Do Monte, FH**. CRF neurons in the paraventricular thalamus regulate food-seeking behavior. 2019 GSBS Neuroscience Graduate Program Annual Retreat. Cleveland, TX. *Best Poster Award
14. Quave, C; Vasquez, AM; Engelke, DS; **Do Monte, FH**. Repeated opioid exposure alters prelimbic cortical activity and increases risk-taking behavior in rats. 26th Annual UTH Neuroscience Conference 2019, Houston, TX.
15. Vasquez, AM, Quave, C, Engelke, D, **Do Monte, FH**. Morphine and fentanyl differentially affect risk-taking behavior in rats. 2019 Institute of Biosciences and Bioengineering Poster Symposium. Houston, TX
16. Fernandez-León, J; Engelke, DS; Aquino-Miranda, G.; Albert, R; **Do Monte, FH**. Overcoming fear to get food: the role of the prelimbic cortex during approach-avoidance conflict. 26th Annual UTH Neuroscience Conference 2019, Houston, TX.
17. Engelke, DS; Olivo, L; Zhang, XO; O'Malley, JJ; Fernandez-León, JA; Li, S, Kirouac, GJ; Beierlein, **Do Monte, FH**. Thalamostriatal CRF neurons balance reward-seeking during

risk of predation. 26th Annual UTH Neuroscience Conference 2019, Houston, TX. *Best Poster Award*

18. Engelke, DS; Olivo, L; Zhang, XO; O'Malley, JJ; Fernandez-León, JA; Li, S, Kirouac, GJ; Beierlein, **Do Monte, FH**. Trick or threat: neural circuits balancing reward-seeking with the risk of predation. 2019 Annual Meeting of the American College of Neuropsychopharmacology, Orlando, FL.
19. Engelke, DS; Zhang, XO; O'Malley, JJ; Fernandez-León, JA; Olivo, L; Li, S, Kirouac, GJ; Beierlein, **Do Monte, FH**. Thalamostriatal CRF neurons balance reward-seeking during risk of predation. Gordon research Conference in "Predator & Prey Interactions" 2020, Ventura, CA.
20. Vasquez, AM, Quave, C, Engelke, DS, **Do Monte, FH**. Correlates of prefrontal cortex activity during morphine-induced risk-taking behavior in rats. Behavior, Biology, and Chemistry: Translational Research in Addiction, 2020, San Antonio, TX.
21. Fernandez-León, J; Engelke, DS; Aquino-Miranda, G.; **Do Monte, FH**. Neural correlates of approach-avoidance conflict in the prelimbic prefrontal cortex. 2020 Annual Meeting of the American College of Neuropsychopharmacology, Virtual.
22. Quave, CB; Vasquez, AM; Bora, EP; Chidomere, CL; Engelke, DS; **Do Monte, FH**. Neuronal correlates of opioid-induced risk-taking behavior in the rodent prelimbic cortex. Society for Neuroscience Global Connectome 2021, Virtual.
23. Zhang, XO; Engelke, DS; O'Malley, JJ; Fernandez-León, JA; Olivo, L; Li, S, Kirouac, GJ; Beierlein, **Do Monte, FH**. Crf neurons in a paraventricular thalamic circuit regulate food-approach vs. threat-avoidance conflict. Society for Neuroscience Global Connectome 2021, Virtual.
24. Aquino-Miranda, G; Fernandez-León, J; Engelke, DS; **Do Monte, FH**. The prelimbic prefrontal cortex encodes individual differences in approach-avoidance conflict in rats. 27th Annual UTH Neuroscience Conference 2021, Virtual.
25. Quave, CB; Vasquez, AM; Bora, EP; Chidomere, CL; Engelke, DS; **Do Monte, FH**. Repeated morphine administration alters prelimbic cortex activity and increases risk-taking behavior during an approach-avoidance conflict task. 27th Annual UTH Neuroscience Conference 2021, Virtual.
26. Zhang, XO; Engelke, DS; O'Malley, JJ; Fernandez-León, JA; Olivo, L; Li, S, Kirouac, GJ; Beierlein, **Do Monte, FH**. Paraventricular thalamic CRF neurons integrate reward- and threat- related information to regulate approach-avoidance conflict. 27th Annual UTH Neuroscience Conference 2021, Virtual.
27. Zhang, XO; Engelke, DS; O'Malley, JJ; Fernandez-León, JA; Olivo, L; Li, S, Kirouac, GJ; Beierlein, **Do Monte, FH**. CRF Neurons in a Paraventricular Thalamic Circuit Regulate Food-approach vs. Threat-Avoidance Conflict. Computational and Systems Neuroscience meeting (Cosyne) 2021, Virtual.
28. Zhang, XO; Engelke, DS; O'Malley, JJ; Fernandez-León, JA; Olivo, L; Li, S, Kirouac, GJ; Beierlein, **Do Monte, FH**. CRF Neurons in a Paraventricular Thalamic Circuit Regulate Food-approach vs. Threat-Avoidance Conflict. 2021 McGovern Medical School Research Retreat, Virtual. *Third Place Best Poster Award
29. Quave, CB; Vasquez, AM; Bora, EP; Chidomere, CL; Aquino-Miranda, G.; Engelke, DS; **Do Monte, FH**. Repeated morphine administration alters prelimbic cortex activity and increases risk-taking behavior during an approach-avoidance conflict task. International Behavioral Neuroscience Society meeting, Puerto Vallarta, Mexico, virtual.
30. Zhang, XO; Engelke, DS; O'Malley, JJ; Fernandez-León, JA; Olivo, L; Li, S, Kirouac, GJ; Beierlein, **Do Monte, FH**. CRF neurons in a paraventricular thalamic circuit integrate reward- and threat- related information to regulate approach-avoidance conflict. International Behavioral Neuroscience Society meeting, Puerto Vallarta, Mexico, virtual.

B. Refereed Original Articles in Journals (* first author equal contribution)

1. Santos Jr, JG; **Do Monte, FH**; Russi, MA; Augustine, P; Lanziotti, VM. Proconvulsant effects of high doses of venlafaxine in pentylenetetrazole-convulsive rats. *Brazilian Journal of Medical and Biological Research,* 35:469 - 472, 2002.
2. **Do Monte, FH**; Santos Jr, JG; Russi, MA; Lanziotti, VM; Leal, LK; Cunha, GM. Antinociceptive and anti-inflammatory properties of the hydroalcoholic extract of stems from *Equisetum arvense* L. in mice. *Pharmacological Research*, 49:239 - 243, 2004.
3. Santos Jr, JG; Tabosa, A; **Do Monte, FH**; Blanco, MM; Freire, AO; Mello, LE. Electroacupuncture prevents cognitive deficits in pilocarpine-epileptic rats. *Neuroscience Letters,* 384:234-238, 2005.
4. Santos Jr, JG; **Do Monte, FH**; Blanco, MM; Lanziotti, VM; Maia, FD; Leal, LK. Cognitive enhancement in aged rats after chronic administration of *Equisetum arvense L*. with demonstrated antioxidant properties in vitro. *Pharmacology Biochemistry and Behavior,* 81:593-600, 2005.
5. Santos Jr, JG; Blanco, MM; **Do Monte, FH**; Russi, MA; Lanziotti, VM; Leal, LK; Cunha, GM. Sedative and anticonvulsivant effects of hydroalcoholic extract of *Equisetum arvense*. *Fitoterapia,* 76:508-513, 2005.
6. Canteras, NS; Kroon, JA; **Do Monte, FH**; Pavesi, E; Carobrez, AP. Sensing danger through the olfactory system: the role of the hypothalamic dorsal premammillary nucleus. *Neuroscience and Biobehavioral Reviews*, 32:1228-1235, 2008.
7. **Do Monte, FH**; Canteras, NS; Fernandes, D; Assreuy, J; Carobrez, AP. New perspectives in beta-adrenergic mediation of innate and learned fear response to predator odor. *The Journal of Neuroscience,* 28(49):13296-13302, 2008.
8. **Do Monte, FH**; Allensworth, M; Carobrez, AP. Impairment of contextual conditioned fear extinction after microinjection of alpha-1-adrenergic blocker prazosin into the medial prefrontal cortex. *Behavioral Brain Research,* 211:85 - 95, 2010.
9. Stern, CA; Do **Monte, FH**; Gazarini, L; Carobrez, AP; Bertoglio, LJ. Activity in prelimbic cortex is required for adjusting the anxiety response level during the elevated plus-maze retest. *Neuroscience,* 170:214 - 222, 2010.
10. **Do Monte, FH**; Kincheski, G; Pavesi, E; Sordi, R; Assreuy, J; Carobrez, AP. Role of beta-adrenergic receptors in the ventromedial prefrontal cortex during contextual fear extinction in rats. *Neurobiology of Learning and Memory*, 94(3):318-328, 2010.
11. Padilla-Coreano, N*; **Do Monte, FH***; Quirk, GJ. A time-dependent role of midline thalamic nuclei in the retrieval of fear memory. *Neuropharmacology*, 62(1):457-463, 2012.
12. Rodriguez-Romaguera, J*; **Do Monte, FH***; Quirk GJ. Deep brain stimulation of the ventral striatum enhances extinction of conditioned fear. *Proceedings of the National Academy of Science - USA*, 109(22):8764-8769, 2012.
13. **Do Monte, FH**; Souza, RR; Wong, TT; Carobrez, AP. Systemic or intra-prelimbic cortex infusion of prazosin impairs fear memory reconsolidation. *Behavioral Brain Research*, 244:137-141, 2013.
14. **Do Monte, FH**; Souza, RR; Bitencourt, RM; Kroon, JA; Takahashi, RN. Infusion of cannabidiol into infralimbic cortex facilitates fear extinction via CB1 receptors. *Behavioral Brain Research*, 250c:23-27, 2013.
15. **Do Monte, FH**; Rodriguez-Romaguera, J; Rosas-Vidal, LE; Quirk, GJ. Deep brain stimulation of the ventral striatum increases BDNF in the fear extinction circuit. *Frontiers in Behavioral Neuroscience*. 7:102, 2013.
16. Rosas-Vidal, LE; **Do Monte, FH**; Sotres-Bayon, F; Quirk, GJ. Hippocampal-prefrontal BDNF and memory for fear extinction, *Neuropsychopharmacology,* 39(9): 2161-2169, 2014.

17. Bravo-Rivera, C; Diehl, MM; Roman-Ortiz, C; Rodriguez-Romaguera, J; Rosas-Vidal, LE; Bravo-Rivera, H; Quiñones-Laracuente, K and **Do Monte, FH***. Long-range GABAergic neurons in the prefrontal cortex modulate behavior. *Journal of Neurophysiology,* 114:1357-1359, 2014.
18. Rodriguez-Romaguera, J; **Do Monte, FH**; Tanimura, Y; Quirk, GJ; Haber, SN. Deep brain stimulation enhancement of fear extinction: evidence for medial orbitofrontal involvement. *Neuropsychopharmacology*, 40(7):1726-1733, 2015.
19. **Do Monte, FH**; Quiñones-Laracuente, K; Quirk GJ. A temporal shift in the circuits mediating retrieval of fear memory. *Nature*, 519(7544):460-463, 2015.
    (Top 1% most cited paper in the academic field 12 months following publication, according to Web of Science, with a commentary featured in the journal "Nature Reviews Neuroscience": Yates, D. (2015). Neural circuits: a nucleus of fear. *Nature Reviews Neuroscience* 16, 121).
20. **Do Monte, FH***; Manzano-Nieves*, G; Quiñones-Laracuente, K; Ramos-Medina, L; Quirk, GJ. Revisiting the role of infralimbic cortex in fear extinction with optogenetics. *The Journal of Neuroscience,* 35(8):3607-3615, 2015.
    (Top 1% most cited paper in the academic field 12 months following publication, according to Web of Science).
21. Rosas-Vidal, LE; Rodriguez-Romaguera, J; **Do Monte, FH**; Andero, R. Targeting the reconsolidation of extinction memories: a novel potential strategy to treat anxiety disorders. *Molecular Psychiatry*, 20(11):1264-5, 2015.
22. **Do Monte, FH**; Quirk, GJ; Li, B; Penzo, MA. Retrieving fear memories, as time goes by…*Molecular Psychiatry*, 21(8):1027-1036, 2016.
23. Martínez-Rivera, FJ; Rodríguez-Romaguera, J; Lloret-Torres, ME; **Do Monte, FH**; Quirk GJ, Barreto-Estrada, JL. Bidirectional modulation of extinction of drug seeking by deep brain stimulation of the ventral striatum. *Biological Psychiatry*, 80 (9):682-690, 2016.
24. **Do Monte, FH***; Minier-Toribio*, A; Quiñones-Laracuente, K; Medina-Colón, EM; Quirk, GJ. Thalamic regulation of sucrose-seeking during unexpected reward omission. *Neuron*, 94(2):388–400.e4, 2017.
25. **Do Monte, FH** and Kirouac, GJ. Boosting of Thalamic D2 Dopaminergic Transmission: A Potential Strategy for Drug-Seeking Attenuation. *eNeuro*, 21;4(6), 2017.
26. Chen, Y; Ma, N; Pei, Z; Wu, Z; **Do Monte, FH**; Keefel, S; Yellin, E; Chen, M; Yin, J; Lee, G; Minier-Toribio, A; Hu, Y; Bai, Y; Lee, K; Quirk, GJ; Chen, G. A NeuroD1 AAV-based gene therapy for functional brain repair after ischemic injury through in vivo astrocyte-to-neuron conversion. *Molecular Therapy*; 28(1), 237-234, 2020.
27. Engelke, DS; Zhang, XO; O'Malley, J; Fernandez-Leon, JA; Li, S; Kirouac, GJ; Beierlein, M; **Do Monte, FH**. A Hypothalamic-thalamostriatal circuit that controls approach-avoidance conflict in rats. *Nature Communications*. 12(1):2517, 2021.
28. De Oliveira-Alvares, L and **Do Monte, FH**. Understanding the dynamic and destiny of memories. *Neuroscience and Biobehavioral Reviews.* 125, 592-607, 2021.
29. Fernandez-León*, JA; Engelke*, DS; Aquino-Miranda*, G; Goodson, A; **Do Monte, FH**. Neural correlates and determinants of approach-avoidance conflict in the prelimbic prefrontal cortex*. Under review. (available in bioRxivs* 2021.05.27.445881)

C. Invited Scientific Talks

2009 Latinamerican School of Neuroscience, IBRO, Montevideo, Uruguay
2009 Brazilian Society of Experimental Biology Meeting, SP, Brazil
2010 Dept. of Psychiatry, School of Medicine, University of Puerto Rico, San Juan, PR
2011 Deep brain stimulation (DBS) for obsessive compulsive disorder (OCD), 3rd Annual Research Symposium, San Juan, PR

2012 First Federation of Latin-American and Caribbean Neuroscience Society Conference, Cancun, Mexico
2014 13th Molecular and Cellular Cognition Society meeting (MCCS), Washington, DC
2015 Thalamus and Corticothalamic Interactions. Janelia Research Campus, Ashburn, VA
2015 Gordon Research Conference. Amygdala in Health & Disease. Easton, MA
2015 24th Annual Puerto Rico Neuroscience Conference. San Juan, PR
2016 Dept. of Neurobiology and Anatomy, The University of Texas Health Science Center, Houston, TX
2016 Monell Chemical Senses Center, Philadelphia, PA
2016 Dept. of Psychology, University of California Los Angeles, Los Angeles, CA
2016 Division of Biological Sciences, University of California San Diego, San Diego, CA
2016 Dept. of Neuroscience, University of California Riverside, Riverside, CA
2017 Dept. of Psychiatry, The University of Texas Health Science Center, Houston, TX
2017 Neurobiology and Anatomy Research Retreat at Artesian Lakes, Cleveland, TX
2017 Dept. of Psychiatry, University of Puerto Rico Medical School, San Juan, PR
2017 Annual Retreat of Graduate School of Biological Science, The University of Texas Health Science Center, Navasota, TX
2017 Junior Breakthrough Discovery Lecture, Med School Research Retreat, Houston, TX.
2017 7th NeuroEngineering Symposium, Gulf Coast Cluster, Houston, TX
2017 47th Society for Neuroscience Annual Meeting, Washington, DC
2018 Psychiatry Grand Rounds Lecture Series, UTHealth, Houston, TX
2018 Dept. of Pharmacology, Federal University of Santa Catarina, Florianopolis, Brazil
2018 American College of Neuropsychopharmacology (ACNP) 57th annual meeting, Hollywood, FL
2019 Dept. of Pharmacology, Federal University of Paraná, Curitiba, Brazil
2019 Research Initiative for Scientific Enhancement (RISE) Symposium at Ponce Health Science University, Ponce, PR
2019 Rising Stars Lecture Series, National Institute of Health, Bethesda, MD
2019 Dept. of Physiology, Lousiana State University Health Sci. Center, New Orleans, LA
2020 Gordon Research Conference. Predator-Prey Interactions, Ventura, CA
2020 Federation of Latin American and Caribbean Neuroscience Societies meeting, Belem, PA, Brazil. (Cancelled due to Covid19)
2020 Society of Biological Psychiatry's Annual Scientific Convention, New York, NY (Cancelled due to Covid19)
2020 Addiction Workshop, Gulf Coast Consortia, Mental Health Research Cluster, Houston, TX (virtual)
2020 Department of Neuroscience, The University of Texas at Austin, TX (virtual)
2021 Society of Biological Psychiatry's Annual Scientific Convention (virtual)
2021 II South Brazilian Symposium in Neuroscience (virtual)
2021 Conte Center, University of California Irvine, CA (virtual)
2021 Neuroscience Institute, Universitat Autònoma de Barcelona, Spain (scheduled for July 2021)
2021 Annual Pavlovian Society Meeting, Ann Harbor, MI (scheduled for Oct 2021)
2021 Department of Biology, The University of Texas at San Antonio, TX (scheduled for Nov 2021).
2022 Brain Research Institute, Medical University of South Carolina, Charleston, SC (Scheduled for March 2022).
2023 Gordon Research Conference. Amygdala Function in Emotion, Cognition and Disease, Barcelona, Spain. (Scheduled for June 2023).

D. Chair and Organizer of Scientific Symposium

2019 International Brain Research Organization (IBRO), Daegu, South Korea
2020 Annual Pavlovian Society Meeting (virtual)
2021 International Behavioral Neuroscience Society meeting, Puerto Vallarta, Mexico. (Scheduled for June 2021)