

Curriculum Vitae

Yenisel Cruz-Almeida, MSPH, PhD

DATE:

1. OFFICE CONTACT INFORMATION:

2004 Mowry Rd, Suite 2250,
Gainesville, FL 32608
cryeni@ufl.edu

2. PRESENT POSITION: Tenured Associate Professor

Primary Department: Department of Community Dentistry & Behavioral Sciences, College of Dentistry

Secondary Departments: Departments of Neuroscience, Epidemiology, College of Medicine

Graduate Faculty Status Department of Neuroscience, College of Medicine
Department of Epidemiology, College of Medicine
Department of Applied Physiology & Kinesiology,
College of Health & Human Performance

Institutes/Centers: Pain Research & Intervention Center of Excellence
Center for Cognitive Aging & Memory
McKnight Brain Institute
Institute on Aging

3. EDUCATION:

	YEAR	DEGREE	AREA of STUDY
Undergraduate:			
University of Florida	05/2001	BS	Microbiology & Cell Science, Immunology
Graduate:			
University of Miami	08/2004	MSPH	Epidemiology, Biostatistics
University of Miami	12/2011	PhD	Neuroscience, Pain
Post-graduate:			
University of Florida	12/2012	Post-Doctoral Fellow	Pain, Neuroepidemiology
University of Florida	12/2016	Certificate	Aging & Geriatric Research

4. ACADEMIC POSITIONS/ EMPLOYMENT:

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- 1996-1997 **Laboratory Research Technician** (Animal behavior, histology)
VA Medical Center/ Shands Hospital, Gainesville, FL
- 1997-1999 **Clinical Research Coordinator** (FDA Phase 2 Clinical Trials, Phlebotomy)
Florida Ophthalmic Institute, Gainesville, FL
- 1999-2001 **Graduate Program Minority Recruitment Coordinator**
University of Florida/ Plant Molecular & Cellular Biology Graduate Program,
Gainesville, FL
- 1999-2000 **Medical Laboratory Assistant** (Blood Bank, Phlebotomy)
Shands Hospital, Gainesville, FL
- 2001-2002 **Phlebotomist**
Community Blood Centers of South Florida, Hollywood, FL
- 2002-2004 **Research Associate II**
University of Miami MILLER School of Medicine, Miami, FL
Department of Neurological Surgery, The Miami Project to Cure Paralysis
- 2004-2006 **Senior Research Associate II**
University of Miami MILLER School of Medicine, Miami, FL
Department of Neurological Surgery, The Miami Project to Cure Paralysis
- 2006-2011 **PhD Student**
University of Miami MILLER School of Medicine, Miami, FL
Neuroscience Graduate Program
- 2011-2012 **Post-Doctoral Fellow**
University of Florida, College of Dentistry, Gainesville, FL
Pain Research & Intervention Center of Excellence
- 2012-2014 **Research Assistant Professor (Non-Tenure Accruing)**
University of Florida, College of Dentistry, Gainesville, FL
Department of Community Dentistry & Behavioral Sciences
Pain Research & Intervention Center of Excellence
- 2014-2021 **Assistant Professor (Tenure-Accruing)**
University of Florida, College of Medicine and Dentistry, Department of Aging &
Geriatric Research, Community Dentistry & Behavioral Sciences Gainesville, FL
- 2019- **Associate Director**
University of Florida CTSI, Gainesville, FL
Pain Research & Intervention Center of Excellence

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2021- **Associate Professor with Tenure**
University of Florida, College of Dentistry, Gainesville, FL
Department of Community Dentistry & Behavioral Sciences

5. COMMITTEE AND BOARD MEMBERSHIPS:

International Association for the Study of Pain (IASP)

2021- Reviewer– Awards Committee, Pain in Older Adults SIG
2022-2025 Officer– Elected Executive Committee, Pain in Older Adults SIG

National Institute of Health (NIH)/ Center for Scientific Review (CSR)

2017- 2020 Temp. Member– NIH/CSR Somatosensory and Pain Systems (SPS)
2018- Member– NIH/NIA Special Emphasis Panel
2019- Member– NIH/NINDS Special Emphasis Panel
2019- Member– NIH/NIA Special Emphasis Panel
2019- Member– NIH/NIAMS Special Emphasis Panel
2020- 2021 Permanent Member– NIH/CSR Somatosensory and Pain Systems (SPS)
2021- 2025 Permanent Member– NIH/CSR Neurobiology of Pain & Itch (NPI)
2022- 2023 Deputy Chair– NIH/CSR Neurobiology of Pain & Itch (NPI)
2023- 2025 Chair– NIH/CSR Neurobiology of Pain & Itch (NPI)

American Pain Society (APS)

2014-2017 Co-Chair– Shared Interest Group: Measurement of Pain and its Impact
2015-2017 Member– Inaugural Early Career Advisory Group
2015-2016 Member– Early Career Forum Planning Committee
2015-2017 Co-Chair– Shared Interest Group: Geriatric Pain
2016- Member– Membership Committee
2016- Co-Chair– METER Working Group
2019-2020 Secretary– Elected Executive Board of Directors

US Association for the Study of Pain (USASP)

2021- Member– Inaugural Committee on Committees
2021- Member– Inclusion, Diversity, Equity & Access Committee
2022-2025 Treasurer– Elected Executive Board of Directors
2022-2025 Chair– Finance Committee
2022- Member– Awards Committee
2023- Member– Rita Allen Award Committee

Other Grant Peer Review Panels

2021- Congressionally Directed Medical Research Programs (CDMRP)
2023- Research Foundation Flanders

University of Florida (UF)

2013- Reviewer– Awards for Aging Research

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2013-	Mentor-	University Minority Mentor Program
2013-2015	Member-	College of Dentistry 2015 CODA Accreditation, Standard 2: Educational Program, Biomedical Sciences
2014-	Judge-	Post-doctoral Research Awards
2014-2019	Advisor-	Gamma Eta Sorority, Multicultural Greek Council, Student Affairs
2016-2019	Senator	Faculty Senate
2016-2019	Member-	Parking & Transportation Committee
2017-	Member-	KL2 Program Advisory Committee, CTSI
2017-	Member-	VA/IOA Seminar Planning Committee
2018-	Leader-	Pilot & Exploratory Studies Core, Claude D. Pepper Older American Independence Center
2018-	Reviewer-	Faculty Enhancement Opportunity Awards, College of Medicine
2018-	Mentor-	Summer Neuroscience Internship Program
2019-2021	Director-	Training & Career Development, Pain Research & Intervention Center of Excellence
2019-	Chair-	Awards for Aging Research, Executive Committee
2021-	Chair-	Inclusion, Diversity, Equity and Access (IDEA) Workgroup, College of Dentistry
2021-	Associate Director-	Pain Research & Intervention Center of Excellence
2021-	Chair-	2023 CODA Accreditation, Standard 2: Educational Program, Biomedical Sciences, College of Dentistry
2021-	Member-	2023 CODA Accreditation, Standard 6: Research, College of Dentistry
2021-	Member-	2023 CODA Accreditation Executive Committee, College of Dentistry
2021-	Member-	Artificial Intelligence Initiative College of Dentistry Representative
2021-	Member-	Community Dentistry & Behavioral Sciences Chair Search Committee, College of Dentistry
2021-	Member-	Faculty Development Committee, College of Dentistry
2022-	Member-	Promotion & Tenure Committee, College of Dentistry
2022-	Member-	TL1 Program Advisory Committee, CTSI
2023-	Chair-	Faculty Development Committee, College of Dentistry
2023-	Co-Chair-	Promotion & Tenure Committee, College of Dentistry
2023-2024	Member-	MBI 25 th Anniversary Celebration Planning Committee
2023-2024	Member-	Brain Rehabilitation Research Center Director Position Search Committee, Malcom Randall VAMC
2023-	Member-	1Florida Alzheimer's Disease Research Center's Internal Advisory Board

Community and Service Organizations

2014-	Member-	ElderCare of Alachua County Executive Board
2021-	Member-	Alachua County Public Schools- School Advisory Board
2021-	Member-	North American Pain School Executive Committee

6. HONORS AND AWARDS:

- 1996- Naples Pelican Bay Rotary Club Scholarship Award
- 1996- Florida Bright Futures Scholarship Award
- 1999- University of Florida Hispanic Student Association Award for Leadership
- 1999- University of Florida Outstanding Student President's Award in Community Service
- 2004- American Pain Society Young Investigator Travel Award
- 2004- University of Miami Award for Academic Merit
- 2004- The National Dean's List
- 2005- American Pain Society Young Investigator Travel Award
- 2006- The Chancellor's List
- 2008- Congress of Spinal Cord Medicine and Rehabilitation Scholarship
- 2006-2008 University of Miami MILLER School of Medicine Graduate Fellowship
- 2006-2010 University of Miami MILLER School of Medicine Lois Pope LIFE Fellowship Award
- 2007-2009 University of Miami MILLER School of Medicine Florida Graduate Academic Scholar
- 2010- American Pain Society Young Investigator Travel Award
- 2011- University of Miami MILLER School of Medicine Medical Faculty Association Margaret Whelan Scholarship Award
- 2011- University of Miami, Inducted to Alpha Epsilon Lambda Honor Society
- 2011- Young Investigator Award, Miami VA Research Day
- 2011- University of Miami Award for Academic Merit
- 2011- National Neurotrauma Society, Top Student Competition Finalist
- 2013- Gerontological Society of America Award Finalist: Aging, the CNS and Mobility in Older Adults: Neural Mechanisms of Mobility Impairment
- 2014-2016 University of Florida Older American Independence Center Junior Pepper Scholar
- 2014-2016 University of Florida Junior Scholar Cognitive Aging & Memory Clinical Translational Program
- 2015- Older American Independence Center (OAIC) Annual Meeting Best Poster Presentation Award, Washington DC
- 2015- McKnight Brain Institute (MBI) Travel Award
- 2018- UTMB Pepper OAIC Team Science Leadership Scholarship Award
- 2019- McKnight Brain Institute (MBI) Leadership Award
- 2019-2022 University of Florida Term Professorship Award
- 2022-2025 North American Pain School Executive Committee
- 2023- Honorary member, Omicron Kappa Dental Honor Society
NIH Helping to End Addiction Long-term (HEAL) Initiative Pain Strategic
- 2024- Planning- Working Group of the National Advisory Neurological Disorders and Stroke (NANDS) Council

7. EDITORIAL RESPONSIBILITIES:

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a. Associate Editor

2022- Journal of Pain (2nd ranked journal in the pain field)

b. Editorial Board

2018- Frontiers in Neurology: Applied Neuroimaging Section

2019- Journal of Pain

2020- Frontiers in Pain Research: Pain Mechanisms Section

2020- Pain: Pain Measurement and Imaging Section (Top ranked journal in pain field)

c. Reviewer

2009- Pain Medicine

2011- Pain

2012- Journal of Pain

2013- Clinical Journal of Pain

2013- Pain Research & Treatment

2014- Journals of Gerontology: Medical Sciences

2014- Experimental Gerontology

2017- Scientific Reports

2018- Neuroimage: Clinical

8. PROFESSIONAL SOCIETIES AND ORGANIZATIONS:

2003-20 American Pain Society

2005- International Association for the Study of Pain

2006- Society for Neuroscience

2013- Gerontological Society of America

2015- Organization for Human Brain Mapping

2020- US Association for the Study of Pain

2023- American Psychological Association

9. INVITED LECTURES:

a. International

2024 Epigenetic Mechanisms & Osteoarthritis: How does pain epigenetics contribute to OA. 3rd International Workshop on the Epigenetics of Osteoarthritis. Toronto, Ontario, Canada. September 4th, 2024.

2024 Artificial Intelligence for Investigating Signatures of Chronic Pain. International Association for the Study of Pain. Amsterdam, Netherland. August 6th, 2024.

2023 Use of health-related biomarkers in studies with diverse older adults to promote health equity and address health disparities. Research Center for Minority Aging Research Pre-Conference. Gerontological Society of America, Tampa, Florida. November 8th, 2023.

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- 2023 Experimental and psychological pain profiles in healthy and chronic pain conditions: A lifespan approach. 13th Congress of the European Pain Federation EFIC- Pain in Europe XIII, Budapest, Hungary. September 20th, 2023.
- 2022 Epigenetic Contributions to Pain in Older Adults. International Association for the Study of Pain. Toronto, Canada. September 19th, 2022.
- 2020 Psychosocial profiles in Knee Osteoarthritis and Potential Neurobiological Mechanisms. University of Nottingham, UK. October 19, 2020.
- 2020 Pain Sensitivity and Chronic Pain During Critical Periods in Life- Studies in Older Adults. International Association for the Study of Pain. Amsterdam, Netherlands. August 4-8, 2020.
- 2019 Novel targets for treating physical and cognitive symptoms of frailty. International Conference on Frailty and Sarcopenia Research. Miami Beach, Florida. February 20-22, 2019.
- 2018 Pain-related differences in frontal GABA concentrations and associations with executive function in older adults. International Behavioral Neuroscience Society. Boca Raton, Florida. June 27 - July 2, 2018.

b. National

- 2024 Pain and Aging: A Clinical Translational Approach. College of Dentistry, Texas A&M University. May 23rd, 2024.
- 2024 WORKSHOP: Squeezing the Idea to the NoFO vs Having the NoFo Drive the Idea. PURPOSE Pain Research Network Annual Meeting, National Institutes of Health. May 4th, 2024.
- 2023 An Introduction to Pain Phenotyping in Humans for the RE-JOIN Project. HEAL Initiative, National Institutes of Health. May 26th, 2023.
- 2023 An Introduction to the Epigenetics of Pain: A Primer For Clinical Pain Researchers. PURPOSE Pain Research Network Annual Meeting, National Institutes of Health. May 12th, 2023.
- 2023 Understanding Pain and Aging Interactions: A Clinical Translational Approach. National Center for Complementary and Integrative Health, National Institutes of Health. May 11th, 2023.
- 2022 A Clinical Translational Perspective to Study Pain and Aging Interactions. Neurology Grand Rounds, Ohio State University. December 13th, 2022.

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- 2022 Pain in Middle-to-Older Age: A Clinical Translational Perspective. Acute to Chronic Pain Signatures Consortium Meeting. October 27th, 2022.
- 2022 Pain and Accelerated Brain Aging: Potential Neurobiological Mechanisms. Augusta University College of Dentistry. March 10th, 2022.
- 2021 Translational Research Approach to Study Pain in Older Adults. Blaustein Pain Grand Rounds, John Hopkins University Medical Center. December 17th, 2021.
- 2021 A Translational Research Approach to Understand Neurobiological Underpinnings at the Intersection of Pain & Aging. Biomedical Seminar Series and Translational Neuroscience and Pharmacology Seminar Series, Texas Tech University Health Science Center. September 17th, 2021.
- 2021 Neurobiological Mechanisms at the Intersection of Pain & Aging. Pain Research Program Keynote Speaker, University of Iowa. February 3rd, 2021.
- 2020 Pain & Aging: Why It Hurts to Get Old? A Clinical Translational Perspective. Pittsburgh Center for Pain Research, University of Pittsburgh. December 16th, 2020.
- 2020 New Avenues in Chronic Pain research- An Epigenetic Approach. US Association for the Study of Pain. Virtual Annual Meeting. December 16th, 2020.
- 2020 Sleep and Pain in Older Adults: Potential Cerebral Mechanisms. US Association for the Study of Pain. Virtual Annual Meeting. December 15th, 2020.
- 2020 Cognitive Phenotypes: Clinical and Experimental Pain Associations in Aging. McKnight Brain Foundation Annual Meeting. Miami, Florida. April 2-3, 2020.
- 2019 Biological Aging Biomarkers as Outcome Measures in Pain Management. NIH Pain Consortium Symposium. National Institutes of Health, Bethesda, Maryland. May 30-31, 2019.
- 2019 Epigenetic Aging and Chronic Pain in Older Adults. McKnight Brain Foundation Annual Meeting. Gainesville, Florida. April 15-19, 2019.
- 2019 Women Leadership Panel: How to Negotiate a First Academic Position. American Pain Society Annual Scientific Meeting. Milwaukee, Wisconsin. April 4, 2019.
- 2019 Pain and Accelerated Biological Aging: A Biopsychosocial Perspective. Wake Forest Sticht Center on Healthy Aging and Alzheimer's Prevention Seminar Series. Wake Forest School of Medicine, North Carolina. March 13, 2019.

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- 2018 Pain and Accelerated Brain Aging: A Biopsychosocial Perspective. Florida State University, Clinical & Translational Sciences Seminar. Florida State University, Tallahassee, Florida. September 23, 2018.
- 2015 Intersecting mechanisms of pain in older adults. Starke Neuroscience Institute. Indianapolis, Indiana. Oct 22, 2015 - Oct 22, 2015.
- 2015 Pain Measurement Across the Lifespan. American Pain Society Shared Interest Group Meeting- Geriatrics and Pain. Palm Springs, California. May 13, 2015 – May 16, 2015.
- 2015 Sensory pain phenotypes: What can they tell us about pain mechanisms? American Pain Society Shared Interest Group Meeting- Measurement of pain and its impact. Palm Springs, California. May 13, 2015 – May 16, 2015.
- 2015 Pain and Aging: Interactions with cognition and physical function. Claude D. Pepper for Older Adults Seminar Series. University of Pittsburgh, PA. March 3, 2015.
- 2015 Healthy Brain Project: Neuroepidemiology Study of 15-year exposure to Risk Factors for Brain Aging: Pain as a Risk Factor. Gerontological Society of America Annual Meeting. Orlando, Florida. Nov 19, 2015 - Nov 23, 2015.
- 2015 Aging, Central Nervous System and Mobility: Follow-up from a 3-year NIA Funded GSA Pre-Conference. Symposium Speaker- Gerontological Society of America Annual Meeting. Orlando, Florida. Nov 19, 2015 - Nov 23, 2015.
- 2014 Biopsychosocial mechanisms of pain in older adults. American Pain Society. Tampa, Florida. April 30, 2014 – May 3, 2014.

b. Regional/Local

- 2023 Women in High Performance Computing & Artificial Intelligence Panel. Research Computing, University of Florida Information Technology, University of Florida. February 23, 2023.
- 2021 Epigenetics at the Intersection of Pain & Aging. PeCAN Seminar Series, University of Florida, College of Medicine. November 19th, 2021.
- 2020 Neurobiological Considerations in Pain & Aging Interactions: A Clinical Translational Research Perspective. Department of Psychiatry Seminar Series. University of Florida, Gainesville, Florida. December 18th, 2020.
- 2019 Chronic Pain and Accelerated Biological Aging. Florida Consortium on the Neurobiology of Cognition. University of Florida, Gainesville, Florida. May 15-16th, 2019.

- 2019 Pain and Accelerated Biological Aging: A Biopsychosocial Perspective. Institute on Aging Seminar Series. University of Florida School of Medicine, Gainesville, Florida. March 19th, 2019.
- 2018 Getting published: a primer for clinicians. Women in Geriatrics/ Academic Medicine Group Event. July 12, 2018.
- 2018 Biochemical brain alterations in older adults: pain versus age-related contributions. Neuromedicine Summer Seminar Series, June 4, 2018.
- 2014 Pain, Aging and the Brain: Interactions with cognition and physical function. Translational Aging Seminar Series, January 28, 2014.
- 2014 Neuro-immune interactions associated with pain in older adults. Neuroscience Graduate Program Summer Lecture Series. July 10, 2014, University of Florida.
- 2014 Mechanism-based measurement of pain in older adults. Neuroscience Graduate Program Seminar Series. December 4, 2014, University of Florida.
- 2012 Role of primary somatosensory cortex in the coding of pain: What do we know? University of Florida, Pain Research & Intervention Center of Excellence Mechanism-based Training Lecture Series, November 2012.
- 2012 Somatosensory function and thalamic biomarkers in central neuropathic pain after spinal cord injury, University of Florida, College of Dentistry Translational Lecture Series, January 2012.

10. RESEARCH SUPPORT:

ACTIVE PROJECTS:

Project Number: T90NS085527 **(PI:** Allen/Cruz-Almeida)

Source: National Institute of Neurological Diseases and Stroke

Title: University of Florida Partnerships Across Interdisciplinary Networks: Training through Engineering, epidemiology & Addiction Medicine (UF PAIN TEAM)

Dates of Approved Project: 08/2024 - 07/2029

Role: Contact PI/ Program Director

Project Number: R90AR085802 **(PI:** Cruz-Almeida)

Source: National Institute of Neurological Diseases and Stroke

Title: University of Florida Partnerships Across Interdisciplinary Networks: Training through Engineering, epidemiology & Addiction Medicine (UF PAIN TEAM)

Dates of Approved Project: 08/2024 - 07/2029

Role: PI/ Program Director

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Project Number: R01AR085334 **(PI:** Allen, Brooks, Biedrzycki, Cruz-Almeida)
Source: National Institute of Neurological Diseases and Stroke
Title: Psychometric Reliability and Validity for Behavioral Metrics of Osteoarthritic Pain in Horses
Dates of Approved Project: 12/2024 - 11/2029
Role: MPI

Project Number: R21 DA056813-01A1 **(PI:** Berry, Cruz-Almeida, Ebner)
Source: National Institute of Drug Abuse
Title: The potential of oxytocin to reduce opioid abuse liability and pain among older adults
Dates of Approved Project: 04/2023-03/2025
Role: MPI

Project Number: R01 MD017496 **(PI:** Terry)
Source: National Institute of Minority Health and Health Disparities
Title: The impact of structural racism and discrimination on chronic pain
Dates of Approved Project: 04/2023-03/2028
Role: Co-Investigator

Project Number: UC2 AR082196 **(PI:** Allen, Almarza, Caudle, Cruz-Almeida)
Source: National Institute of Arthritis & Musculoskeletal and Skin Diseases
Title: Innervation of the knee and TMJ
Dates of Approved Project: 09/2022-08/2025
Role: MPI, Human Phenotyping Studies Leader

Project Number: R01 AG076082 **(PI:** Cruz-Almeida, Coombes)
Source: National Institute on Aging
Title: Biopsychosocial pain predictors of mobility decline in aging
Dates of Approved Project: 06/2022-04/2027
Role: Contact PI

Project Number: P30 AG028740 **(PI:** Manini, Esser)
Source: National Institute on Aging
Title: University of Florida Claude D. Pepper Older Americans Independence Center
Dates of Expected Project: 05/2022-04/2027
Role: Leader, Pilot & Exploratory Studies Core

Project Number: R01 AR078817-A1 **(PI:** Nichols)
Source: National Institute of Arthritis, Musculoskeletal, and Skin Diseases
Title: Carpometacarpal Osteoarthritis: Understanding the Intersection of Muscle Mechanics, Joint Instability, and Pain
Dates of Approved Project: 4/2022-03/2027
Role: Co-investigator

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Project Number: K01 DA052673-A1 (PI: Berry)

Source: National Institute of Drug Abuse

Title: Opioid-Sparing and Pain-Reducing Properties of Syntocinon: A Dose-Effect Determination

Dates of Approved Project: 12/2021-09/2026

Role: Primary Mentor

Project Number: T34 GM137869-01 (PI: Cruz-Almeida, Julian, Moody, Talline)

Source: National Institute of General Medical Sciences

Title: SF2UF: The Bridges to the Baccalaureate partnership between Santa Fe College and the University of Florida

Dates of Approved Project: 08/2021-07/2026

Role: MPI

Project Number: R01 AG067757-S3 (PI: Cruz-Almeida)

Source: National Institute on Aging

Title: Biobehavioral basis of knee osteoarthritis pain- Women's Health Supplement

Dates of Approved Project: 04/2021-02/2025

Role: PI

Project Number: R01 AG067757-S2 (PI: Cruz-Almeida)

Source: National Institute on Aging

Title: Biobehavioral basis of knee osteoarthritis pain- Alzheimer's Supplement

Dates of Approved Project: 04/2021-02/2025

Role: PI

Project Number: R01 AG059809-S1. (PI: Cruz-Almeida, Ebner)

Source: National Institute on Aging

Title: Mechanisms of Oxytocin's Analgesia in Older Adults- Diversity Supplement

Dates of Approved Project: 05/2021 - 06/2025

Role: Contact PI

Project Number: T32 AG049673 (PI: Fillingim)

Source: National Institute on Aging

Title: Integrative and Multidisciplinary Pain and Aging Research Training (IMPART) Program

Dates of Approved Project: 09/2020-08/2025

Role: Co-Director

Project Number: R01 AG067757 (PI: Cruz-Almeida)

Source: National Institute on Aging

Title: Biobehavioral basis of knee osteoarthritis pain

Dates of Approved Project: 05/2020-02/2026

Role: PI

Project Number: R01 AG059809 (PI: Cruz-Almeida, Ebner)

Source: National Institute on Aging

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Title: Mechanisms of Oxytocin's Analgesia in Older Adults

Dates of Approved Project: 08/2018 - 06/2025

Role: Contact PI

Project Number: N/A

(PI: Cruz-Almeida, Ebner)

Source: McKnight Brain Foundation

Title: Mechanisms of Oxytocin's Analgesia in Older Adults

Dates of Approved Project: 08/2018 – 04/2025

Role: Contact PI

PAST PROJECTS:

Project Number: K99 AG081552-01

(PI: Strath)

Source: National Institute of Aging

Title: Pain and Nutrition in Dementia and Alzheimers (PANDA)

Dates of Approved Project: 04/2023-03/2024

Role: Primary Mentor

Project Number: F31 AG074645-A1

(PI: Ordonez Diaz)

Source: National Institute on Aging

Title: Integrating Biomechanics and Experimental Pain to Understand Compensatory Mechanisms in Symptomatic Carpometacarpal Osteoarthritis

Dates of Proposed Project: 08/2022-04/2024

Role: Co-Sponsor

Project Number: K22 NS102334

(PI: Terry)

Source: National Institute of Neurological Disorders & Stroke

Title: Neural mechanisms underlying psychosocial contributions to ethnic group differences in pain

Dates of Approved Project: 04/2018-03/2023

Role: Mentor

Project Number: K01 HL153210

(PI: Roach)

Source: National Heart, Lung and Blood Institute

Title: Biopsychosocial factors in Sickle Cell Disease (SCD) pain

Dates of Approved Project: 07/2020-06/2024

Role: Mentor

Project Number: R01 AG067757-S1

(PI: Cruz-Almeida)

Source: National Institute on Aging

Title: Biobehavioral basis of knee osteoarthritis pain- Diversity Supplement

Dates of Approved Project: 04/2021-02/2024

Role: PI

Project Number: U01 AG061389

(PI: Clark, Manini, Seidler)

Source: National Institute on Aging

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Title: Multimodal imaging of brain activity to investigate walking and mobility decline in older adults

Dates of Approved Project: 09/2018-08/2024

Role: Co-Investigator

Project Number: P30 AG028740 **(PI: Pahor)**

Source: National Institute on Aging

Title: University of Florida Claude D. Pepper Older Americans Independence Center

Dates of Approved Project: 04/2018-03/2021

Role: Leader, Pilot & Exploratory Studies Core

Project Number: P30 AG028740 **(Candidate PI: Maciel)**

Source: National Institute on Aging

Title: Brain Tsunamis After Cardiac Arrest and Microcirculatory Failure in Aging Brains

Dates of Approved Project: 04/2019-03/2021

Role: Mentor

Project Number: KL2 TR001429 **(Candidate PI: Nichols)**

Source: National Center for Advancing Translational Sciences

Title: Carpometacarpal Osteoarthritis: Towards Identification of Biomechanical, Neuromuscular, and Somatosensory Mechanisms

Dates of Approved Project: 04/2019-03/2021

Role: Primary Mentor

Project Number: K01 AG048259 **(PI: Cruz-Almeida)**

Source: National Institute on Aging

Title: Neuroimaging Age-Related Changes in Pain Modulation

Dates of Approved Project: 05/2015 – 08/2020

Role: PI

Project Number: K01 AG048259-S1 **(PI: Cruz-Almeida)**

Source: National Institute on Aging

Title: Neuroimaging Age-Related Changes in Pain Modulation in Alzheimer's Disease

Dates of Approved Project: 08/2018 - 04/2019

Role: PI

Project Number: APS Mayday METER Award **(PI: Cruz-Almeida, Felix)**

Source: Mayday Foundation

Title: Development and sustainability of the MEasurement Tool Evaluation Resource (METER): opportunities for predoctoral training

Dates of Approved Project: 05/2018 - 04/2019

Role: Contact PI

Project Number: UL1 TR001427 **(PI: Nelson)**

Source: University of Florida Clinical Translational Sciences Institute

Title: Neurobiological Mechanisms of Oxytocin's Pain-Modulatory Role in Aging

Dates of Approved Project: 08/2016 – 07/2019

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Role: Pilot Project MPI

Project Number: UL1 TR001427 (PI: Nelson)
Source: University of Florida Clinical Translational Sciences Institute
Title: tDCS in Older Adults with Multi-Site Pain
Dates of Approved Project: 08/2016 – 07/2019
Role: Pilot Project MPI

Project Number: R01 DE019456 (PI: Shaddox)
Source: National Institute of Dental and Craniofacial Research
Title: Mechanisms and treatment response of aggressive periodontitis in children
Dates of Approved Project: 06/2014-05/2018
Role: Co-Investigator

Project Number: P30 AG028740 (PI: Pahor)
Source: National Institute on Aging
Title: Pain and Mobility Function in Older Adults
Dates of Approved Project: 05/2015 – 04/2017
Role: Pilot Project PI

Project Number: UL1 TR001427 (PI: Nelson)
Source: NIH Clinical Translational Sciences Institute
Title: Cortico-striatal connectivity predicting pain and physical function in older adults
Dates of Approved Project: 06/2014 – 05/2017
Role: Pilot Project PI

Project Number: P30 AG028740 (PI: Buford)
Source: National Institute on Aging Research Development Project
Title: Development of clinical methods to evaluate neural function in aging
Dates of Approved Project: 11/2013 – 03/2017
Role: Co-Investigator

Project Number: UL1 TR001427 (PI: Nelson)
Source: University of Florida Clinical Translational Sciences Institute
Title: Neuro-immune mechanisms associated with pain modulation in older adults
Dates of Approved Project: 06/2014 - 12/2016
Role: Pilot Project Co-Investigator

Project Number: L30 AG043172 (PI: Cruz-Almeida)
Source: National Institute on Aging
Title: Age-related changes in pain modulation
Dates of Approved Project: 08/2012 - 05/2017
Role: Clinical Research Loan Repayment Awardee

Project Number: R01 AG039659-02S1 (PI: Riley)
Source: National Institute on Aging

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Title: The effects of aging on experimental models of pain inhibition and facilitation

Dates of Approved Project: 11/2012 - 11/2014

Role: Minority Supplement Candidate

Project Number: UL1 TR001427 (PI: Nelson)

Source: University of Florida Clinical Translational Sciences Institute

Title: Saliva as an alternative to plasma to measure biomarkers associated with pain mechanisms.

Dates of Approved Project: 06/2012 - 12/2013

Role: Pilot Project PI

Project Number: T90 DE021990 (PI: Burne)

Source: National Institute of Dental and Craniofacial Research

Title: Comprehensive training program in oral biology

Dates of Approved Project: 11/2011 – 11/2012

Role: Post-Doctoral Fellow

Project Number: Pre-doctoral Fellowship Award (PI: Cruz-Almeida)

Source: VARR&D Office of Academic Affiliations

Title: Utility of thalamic metabolites and sensory testing in neuropathic pain conditions after spinal cord injury using MRS and QST.

Dates of Approved Project: 09/2009 - 08/2011

Role: PI

Project Number: T32 NS007492 (PI: Bixby)

Source: National Institute of Neurological Diseases and Stroke

Title: Predoctoral training program in the neurosciences

Dates of Approved Project: 08/2006 - 7/2008

Role: Pre-Doctoral Fellow

11. TEACHING RESPONSIBILITIES:

2007-2011	Instructor, NEU100: Introduction to Neuroscience, University of Miami
2010-2011	Instructor, Remote Learning Neurotrauma Lecture Series, University of Miami
2010-2011	Instructor, Neurotrauma Summer Research Fellowship Journal Club, University of Miami
2012-2014	Co-Instructor, DEN6001: Evidenced-based Dentistry, University of Florida
2013-2019	Co-Instructor, DEN6251: Science & Clinical Management of Dental Pain, University of Florida
2013-2014	Co-Instructor, DEN5013: Ethical and Professional Issues in Dentistry, University of Florida
2013-2016	Co-Instructor, GMS6417: Integrative Aging Physiology, University of Florida

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C.V.

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- 2014, 2020 Co-Instructor, DEN5221: Oral Health Management and Psychosocial Issues Over the Lifespan, University of Florida
- 2013-2017 Co-Instructor, Dental Summer Research Scholars Program, Proper Use of Statistics for Clinicians, University of Florida
- 2015- present Course Director, GMS6711: Neurobiology of Pain, University of Florida
- 2015- present Lecturer, GMS6893: Clinical Translational Sciences Seminar, University of Florida
- 2016- present Course Director, GMS6895: Clinical Translational Sciences Journal Club, University of Florida
- 2017- 2020 Course Director, GMS6771: Clinical Neuroscience of Aging, University of Florida
- 2019- present Co-Instructor, DEN6001: Evidenced-based Dentistry, University of Florida
- 2020- present Course Director, DEN6251: Science & Clinical Management of Dental Pain, University of Florida
- 2024- present Co-Course Director, Convergence Team Science in Pain, University of Florida

12. MENTORING:

a. Predoctoral Mentor/Preceptor:

University of Miami:

Daysi Martinez (URM)

Collin Hill (URM)

Cara Coleman

Jessica Johnson

University of Florida:

a) Undergraduate Students:

1. Genesis Nieves (URM, medical school)
2. Michael Havel (University Scholars Program, dental school)
3. Alexandra Nelson
4. Lorraine Hoyos (University Scholars Program, medical school)
5. Isabella Hower (University Scholars Program, graduate school)
6. Rachna Sannegowda (University Scholars Program, medical school)
7. Brandon Apagueno (URM, graduate/medical school)
8. Josue Cardoso (URM)
9. Travis Sampiero (graduate school)
10. Darlin Ramirez (University Scholars Program, URM, graduate school)
11. Sudha R. Dhulipala (University Scholars Program, medical school)
12. Jessie Somerville (University Scholars Program, graduate school)
13. Dinia Salmeron (University Scholars Program, URM)
14. Corey Nack (Summer Neuroscience Internship Program, graduate school)

15. Quintin Kidder (graduate school)
16. Naikia Kumar (URM)
17. Kimia Targhi (URM)
18. Nicole Fenestra
19. Jessica Reade (University Scholars Program)
20. Sophia McCray
21. Ali Victorio
22. Jason Liu
23. Katarzyna Bezen
24. Vanessa Davila (URM)
25. Bryce Murillo (URM)
26. Chavier Laffitte Nodarse (URM)
27. Barbara Gonzales Alarcon (URM)
28. Elijah Jackson (URM)
29. Andrea Bentacourt (URM)
30. Ariana Robinson (URM)

b) Graduate Students:

1. Denny Fe Agana (URM, PhD- Epidemiology, Member)
2. Desiree Lussier (URM, PhD- Psychology, Co-Chair)
3. Ania Lipat (URM, MS- Applied Physiology & Kinesiology, Co-Chair)
4. Abigail Schmitt (PhD- Applied Physiology & Kinesiology, Member)
5. Ariana Brice-Tutt (PhD- Pharmacodynamics, Member)
6. Abigail Wilson (PhD- Physical Therapy, Member)
7. Taylor Yeater (PhD- Biomedical Engineering, Member)
8. Rachel Ho (PhD- Applied Physiology & Kinesiology, Member)
9. Dennine Marshall (PhD- Nursing, Member)
10. Tamara Ordonez Diaz (PhD- Biomedical Engineering, Member)
11. Jacob Lee Griffith (PhD- Biomedical Engineering, Member)
12. Carlos Cruz (PhD- Biomedical Engineering, Member)
13. Jerin Mathew (PhD-Physiotherapy, University of Otago, New Zealand)
14. Ania Lipat (URM, PhD- Applied Physiology & Kinesiology, Chair)
15. Kristina Bell (URM, PhD- Neuroscience, Chair)
16. Rachael Ajiboye (URM, PhD- Nursing, Member)
17. Julia D. Johnston (PhD- Psychology, University of South Carolina)
18. Alejandro Dorado Calderon (PhD- Neuroscience, Universitat de les Illes Balears, Spain)
19. Logan Rodgers (PhD- Rehabilitation Science, Member)
20. Jinhan Park (PhD- Applied Physiology & Kinesiology, Member)
21. Alexis Benoit ((PhD- Biomedical Engineering, Member)
22. Kaitlin Southern (PhD- Biomedical Engineering, Member)

c) **Post-doctoral/ Junior Faculty Mentoring**

1. Anupama Kathiresan, MD (Post-doctoral fellow)
2. Ellen Terry, PhD (Post-doctoral fellow, Junior Faculty)
3. Irina Velsko, PhD (Post-doctoral fellow)
4. Naveen Allin, PhD (Post-doctoral fellow)
5. Luciana Branco-de-Almeida, DDS (Post-doctoral fellow)
6. Joseph Gullett, PhD (Post-doctoral fellow)
7. Juan Mora, MD (Junior Faculty)
8. Keesha Roach, PhD (Post-doctoral fellow, Junior Faculty, University of Tennessee)
9. Soamy Montesino Goicolea, MD (Post-doctoral fellow, Junior Faculty)
10. Pedro A. Valdes Hernandez, PhD (Post-doctoral fellow, Junior Faculty)
11. Carolina Maciel, MD (Junior Faculty)
12. Jennifer Nichols, PhD (Junior Faculty)
13. Meredith Berry, PhD (Junior Faculty)
14. Alisa Johnson, PhD (Junior Faculty)
15. Jessica Petersen, PhD (Post-doctoral fellow)
16. Larissa Strath, PhD (Post-doctoral fellow, Junior Faculty)
17. Antoinette Spector, DPT, PhD (Junior Faculty, Northwestern University)
18. Rachel Ho, PhD (Post-doctoral fellow)
19. Ariana Brice-Tutt, PhD (Post-doctoral fellow)
20. Julia Sheffler, PhD (Junior Faculty, Florida State University)
21. Javier Tamargo, PhD, RD (Post-doctoral fellow)
22. Ruth Quintana, PhD (Post-doctoral fellow)
23. Muhammad Abbas, PhD (Post-doctoral fellow)
24. Joshua Crow, PhD (Junior Faculty, Augusta University)
25. Keren Machol, MD (Junior Faculty, Baylor College of Medicine)
26. Amanda Elton, PhD (Junior Faculty, UF Department of Psychiatry, College of Medicine)
27. Abbas Mohammed, PhD (Post-doc, University of Florida)

13. BIBLIOGRAPHY

a. Peer-Reviewed Manuscripts

1. **Cruz-Almeida Y**, Mehta B, Haelterman NA, Johnson AJ, Heiting C, Ernberg M, Orange D, Lotz M, Boccanfuso J, Smith SB, Pela M, Boline J, Otero M, Allen K, Perez D, Donnelly C, Almarza A, Olmer M, Balkhi H, Wagenaar J, Martone M; RE-JOIN Consortium Investigators. Clinical and biobehavioral phenotypic assessments and data harmonization for the RE-JOIN research consortium: Recommendations for common data element selection. *Neurobiol Pain*. 2024 Aug 22;16:100163. doi: 10.1016/j.ynpai.2024.100163. PMID:

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3. Johnson AJ, Peterson JA, Vincent HK, Manini T, **Cruz-Almeida Y**. Body composition and body mass index are independently associated with widespread pain and experimental pain sensitivity in older adults: a pilot investigation. *Front Pain Res (Lausanne)*. 2024 Jul 1;5:1386573. doi: 10.3389/fpain.2024.1386573. PMID: 39015155; PMCID: PMC11250474.
4. Ordonez Diaz T, Vasilopoulos T, Wright TW, **Cruz-Almeida Y**, Nichols JA. A multi-modal evaluation of experimental pain and psychological function in women with carpometacarpal osteoarthritis. *Osteoarthr Cartil Open*. 2024 Aug 23;6(4):100515. doi: 10.1016/j.ocarto.2024.100515. PMID: 39286574; PMCID: PMC11402392.
5. Tamargo JA, Strath LJ, **Cruz-Almeida Y**. High-impact pain is associated with epigenetic aging among middle-aged and older adults: Findings from the Health and Retirement Study. *J Gerontol A Biol Sci Med Sci*. 2024 Jun 10;glae149. doi: 10.1093/gerona/glae149. Epub ahead of print. PMID: 38855906.
6. Klejc K, **Cruz-Almeida Y**, Sheffler JL. Addressing Pain Using a Mediterranean Ketogenic Nutrition Program in Older Adults with Mild Cognitive Impairment. *J Pain Res*. 2024 May 23;17:1867-1880. doi: 10.2147/JPR.S451236. PMID: 38803693; PMCID: PMC11129704.
7. Tamargo JA, **Cruz-Almeida Y**. Food insecurity and epigenetic aging in middle-aged and older adults. *Soc Sci Med*. 2024 May 7;350:116949. doi: 10.1016/j.socscimed.2024.116949. Epub ahead of print. PMID: 38723585.
8. Tamargo JA, Johnson AJ, **Cruz-Almeida Y**, Sibille KT. Measurement of Pain Frequency Associated with Knee Osteoarthritis: Future Directions. *J Pain*. 2024 Apr 30:104545. doi: 10.1016/j.jpain.2024.104545. Epub ahead of print. PMID: 38697495.
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- pain. *Front Pain Res (Lausanne)*. 2024 Feb 28;5:1351602. doi: 10.3389/fpain.2024.1351602. PMID: 38486872; PMCID: PMC10938582.
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 11. Vincent HK, Johnson AJ, Sibille KT, Vincent KR, **Cruz-Almeida Y**. Weight-cycling over 6 years is associated with pain, physical function and depression in the Osteoarthritis Initiative cohort. *Sci Rep*. 2024 Jan 19;14(1):1738. doi: 10.1038/s41598-024-52366-z. Erratum for: *Sci Rep*. 2023 Oct 9;13(1):17045. PMID: 38242955; PMCID: PMC10798958.
 12. Ho RLM, Park J, Wang WE, Thomas JS, **Cruz-Almeida Y**, Coombes SA. Lower individual alpha frequency in individuals with chronic low back pain and fear of movement. *Pain*. 2024 May 1;165(5):1033-1043. doi: 10.1097/j.pain.0000000000003098. Epub 2023 Nov 29. PMID: 38112575; PMCID: PMC11018483.
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 15. Spector AL, Quinn KG, **Cruz-Almeida Y**, Fillingim RB. Chronic Pain Among Middle-Aged and Older Adults in the United States: The Role of Everyday Discrimination and Racial/Ethnic Identity. *J Pain*. 2024 May;25(5):104439. doi: 10.1016/j.jpain.2023.11.022. Epub 2023 Dec 7. PMID: 38065467; PMCID: PMC11058034.
 16. **Cruz-Almeida Y**, Tamargo J, Strath LJ. Epigenetic Aging: A Socio-Biological Link to Chronic Pain? *J Pain*. 2024 Feb;25(2):572-573. doi: 10.1016/j.jpain.2023.11.007. Epub 2023 Nov 18. PMID: 37984508.
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- Chronic Knee Pain. *Front Pain Res (Lausanne)*. 2022 Jul 12;3:868546. doi: 10.3389/fpain.2022.868546. PMID: 35903307; PMCID: PMC9314648.
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c. Books or Chapters

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- b.** Lysne P, and ***Cruz-Almeida Y**. 2016. *Encyclopedia of Clinical Neuropsychology, 2nd Edition*. Macular degeneration. Springer.