

Robert M. Caudle, Ph.D
Curriculum Vitae
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PERSONAL:

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ORCID: 0000-0002-2394-4114

EDUCATION:

Baccalaureate:

BA:1977-1981 Humboldt State University, Arcata, CA

Graduate:

Ph.D.:1983-1988 University of Illinois at Chicago, Department of Pharmacology,
Chicago, IL – Lawrence Isaac, Ph.D. Graduate Advisor

Post-Doctoral:

1988-1991 University of Washington, Department of Pharmacology, Seattle, WA –
Charles Chavkin, Ph.D. Post-doctoral Advisor

ACADEMIC EXPERIENCE AND APPOINTMENTS:

2016-present Director of DMD Basic Sciences Education
2008-present Professor, Department of Oral & Maxillofacial Surgery, University of Florida
College of Dentistry
2008-present Adjunct Professor, Department of Neuroscience, University of Florida College
of Medicine
2005 Tenured, University of Florida College of Dentistry
2000-2008 Adjunct Associate Professor, Department of Neuroscience, University of
Florida College of Medicine
1998-2008 Associate Professor, Department of Oral & Maxillofacial Surgery & Diagnostic
Sciences, University of Florida College of Dentistry
1997-1998 Health Scientist Administrator, Behavioral Neurobiology Research Branch,
National Institute on Drug Abuse, National Institutes of Health
1995-1997 Senior Staff Fellow, Pain and Neurosensory Mechanisms Branch, National
Institute of Dental and Craniofacial Research, National Institutes of Health
1991-1995 Staff Fellow, Neurobiology and Anesthesiology Branch, National Institute of
Dental Research, National Institutes of Health
1982-1983 Organic Chemist, Shell Development Corporation, Agricultural Chemicals
Division, Modesto, CA

ADMINISTRATIVE/COMMITTEE EXPERIENCE

2021-2023 Accreditation Standard 2 Educational Program-Biomedical Sciences
Committee
2021 Chair - Standardized Grade Scale Workgroup (Curriculum Committee)

2019-present	Integrated National Board Dental Examination Workgroup (Curriculum Committee)
2017	Earlier Clinical Experiences subcommittee, University of Florida College of Dentistry Curriculum Committee
2017	Strategic Planning Education Working Group, UFCD
2017	Advisory Committee - University of Florida Term Professorship Awards
2016-present	University of Florida College of Dentistry Curriculum Committee
2016	University of Florida College of Dentistry Faculty Advisory Board, (Chair of the Constitution Committee)
2015-2018	Chair (2016) -University of Florida College of Dentistry, Constitution Committee
2015-2017	University of Florida College of Dentistry Student Performance Evaluation Committee
2013-2015	Educational Program – Biomedical Sciences Committee for Standard 2, Accreditation
2013-2015	Research Program Committee for Standard 6, Accreditation, Member
2010-2013	University of Florida College of Dentistry, Research Committee
2010	University of Florida College of Dentistry, Department of Oral and Maxillofacial Surgery Department Chair Search Committee
2009-2018	Health Sciences Center Student Conduct Committee
2009-2011	University of Florida College of Dentistry Student Performance Evaluation Committee
2009-2012	Vice Chair (2009-2010), Chair (2010-2011) - University of Florida College of Dentistry Promotion and Tenure Advisory Committee, Full Professor Member
2007-2008	University of Florida College of Dentistry Promotion and Tenure Advisory Committee, Associate Professor Member
2006-2008	Accreditation Self Study Committee – Standard 1 – Institutional Effectiveness
2006-2008	Accreditation Self Study Committee – Instruction
2004-2013	University of Florida Animal Care Services Faculty Advisory Committee
2003-2007	University of Florida College of Dentistry Research Space Advisory Committee
2002-2014	University of Florida Comprehensive Center for Pain Research Internal Advisory Board
2001-2009	University of Florida Pain Interest Group – Co-organizer.
2001	University of Florida College of Dentistry Faculty Search Committee for Pain Research Faculty
2000-2001	Research Program Committee - Accreditation and Strategic Planning, UFCD
1999-2000	University of Florida College of Dentistry and the University of Florida Brain Institute Faculty Search Committee
1999 - 2017	Safety Officer, Department of Oral & Maxillofacial Surgery, UFCD
1998	Organizing Committee for the symposium "The Glutamate Cascade: Common Pathways of Central Nervous System Disease States". National Institute on Drug Abuse, National Institutes of Health
1997-1998	Health Scientist Administrator, Behavioral Neurobiology Research Branch, National Institute on Drug Abuse, National Institutes of Health
1997-1998	Pain Interest Group, National Institute on Drug Abuse, National Institutes of Health

- 1997 Technical Evaluation Committee for National Institutes of Health Building 49 Animal Care Services contracts.
- 1997 Chair, National Institute of Dental Research, National Institutes of Health, Fellows Committee.
- 1997 National Institute of Dental Research, National Institutes of Health, Scientific Systems Core Facilities Oversight Committee.
- 1996 Leader - National Institute of Dental Research, National Institutes of Health Reorganization Workgroup
- 1996 National Institute of Dental Research, National Institutes of Health Strategic Planning Steering Committee
- 1995 National Institute of Dental Research, National Institutes of Health Strategic Planning Focus Groups
- 1993-1997 Neurobiology and Anesthesiology Branch, National Institute of Dental Research, National Institutes of Health, Representative on the Animal Care and Use Committee

PROFESSIONAL EXPERIENCE

- 2012-2020 President and co-Founder, Velocity Laboratories, LLC, Alachua, Florida
- 1998 Project Officer Training, National Institutes of Health
- 1997-1999 Guest Researcher, Pain and Neurosensory Mechanisms Branch, National Institute of Dental and Craniofacial Research, National Institutes of Health
- 1996-1997 Consultant for the Office of Alternative Medicine, National Institutes of Health
- 1995 Neuroscience Consultant to the National Center for Research Resources, National Institutes of Health

PROFESSIONAL ORGANIZATIONS

- Local:**
- Member, University of Florida McKnight Brain Institute
 - Member, Comprehensive Center for Pain Research
 - Member, University of Florida, Pain Research and Intervention Center of Excellence (PRICE)
 - Member, University of Florida Shands Cancer Center

National/International:

- Member, Society for Neuroscience
- Member, International Brain Research Organization
- Member, American Pain Society (1998-2019)
- Member, International Association for the Study of Pain
- Member, American Association for the Advancement of Science
- Member, International Association for Dental Research (1998-2021)
- Member, American Association for Dental Research (1998 – 2021)

HONORS AND AWARDS

- 2017-2020 University of Florida Term Professorship
- 2012 University Libraries Committee, University of Florida Open Access Award.
- 2012-2014 University of Florida Research Foundation Professor
- 2002 UFCD Class of 2005 Basic Science Teacher of the Year Nominee.

- 1998 On-The-Spot Award, National Institute of Drug Abuse
1985 Klaus R. Unna Scholarship, University of Illinois at Chicago, Awarded to the outstanding student in the Department of Pharmacology.

GRANT STUDY SECTIONS:

- 1999 NIH Study Section Special Emphasis Panel, IFCN-4
1999 NIH Study Section Special Emphasis Panel, IFCN-5
1999 Chairman, NIH Study Section Special Emphasis Panel, IFCN-8
1999-2002 NIH Study Section, IFCN-4
2000 NIH Study Section Special Emphasis Panel, IFCN-5
2000 Chairman, NIH Study Section Special Emphasis Panel, IFCN-4
2001 NIH Study Section Special Emphasis Panel, IFCN-2
2001 Chairman, NIH Study Section Special Emphasis Panel, IFCN-4
2002 National Institute on Drug Abuse Special Contract Review Panel for RFC No. N43DA-2-7709 (Topic 048)
2002 NIH Study Section Special Emphasis Panel, IFCN-5
2002 National Institute on Drug Abuse/NIH Cutting-Edge Basic Research Awards program, ZDA1 SRC(99)
2002 National Institute on Drug Abuse/NIH Cutting-Edge Basic Research Awards program, ZDA1 TXL-Q 14
2002 NIH Study Section Special Emphasis Panel, IFCN-4
2002 NIH Study Section Special Emphasis Panel, IFCN-4 02, Pharmacology of Memory and Feeding Study Section
2003 NIH Study Section Special Emphasis Panel, IFCN-4 09
2003 NIH Study Section Special Emphasis Panel, IFCN-4 06
2003 Chairman, NIH Study Section Special Emphasis Panel, IFCN-4 15M
2003 Chairman, NIH Study Section Special Emphasis Panel, IFCN-4 14M
2003 NIH Study Section Special Emphasis Panel, IFCN-4 16M
2003 NIH Study Section Special Emphasis Panel, RFC No. N44DA-3-7709 (Topic 048)
2003 NIH Study Section Special Emphasis Panel, IFCN5-04
2003 Chairman, NIH Study Section Special Emphasis Panel, ZRG1-SMI-02
2004 NIH Study Section Special Emphasis Panel, ZRG1-IFCN-B-04
2004 NIDA Study Section Special Emphasis Panel, RFP No. N43DA-4-7744 (Topic 068)
2004 NIDA Study Section Special Emphasis Panel, RFC No. N44DA-4-7734
2005 NIDA Study Section Special Emphasis Panel, RFC No. N44DA-5-7744 (Topic 068)
2005 NIH Study Section Special Emphasis Panel, ZDA1 LXF-L20 1
2005 NIH/NIDA Study Section Special Emphasis Panel, Loan Repayment Program
2005 NIH Study Section Special Emphasis Panel, ZRG1 IFCN-E (11)(B)
2005 National Institute on Drug Abuse/NIH Cutting-Edge Basic Research Awards program
2006 NIH/NIDCR Study Section Special Emphasis Panel, ZDE1 RK 41
2006 NIH/NIDA Study Section Special Emphasis Panel, Loan Repayment Program, ZDA1 LXF-L (30) (1)
2006 NIH/NIDA Study Section Special Emphasis Panel, ZDA1 MXG-S (19) (R)

2006 NIH Study Section Special Emphasis Panel, ZRG1 IFCN-E (11) (B)
2007 NIH Study Section Special Emphasis Panel, ZDA1 LXF-L (25) Loan Repayment
2007 NIH Study Section Special Emphasis Panel, ZRG1 IFCN-E (11)
2007 NIH Study Section Special Emphasis Panel, ZRG1 IFCN-E 11 B
2008 National Institute on Drug Abuse/NIH Cutting-Edge Basic Research Awards
program 2008/05 ZDA1 MXS-M (03) 1
2008 NIH Special Emphasis Panel/Scientific Review Group ZDA1 LXF-L (19) 1
2008 NIH Special Emphasis Panel/Scientific Review Group 2008/10 ZDA1 MXS-M
(01) 1
2009 NIDA-L Medication Development Research Subcommittee 2009/05
2009 National Institute on Drug Abuse Special Emphasis Panel, 2009/08 ZDA1 LXF-L
(01)
2009 National Institute on Drug Abuse Special Emphasis Panel, 2009/08 ZRG1 IFCN-
H (50) R, Central Nervous System Intersections of Drug Addiction, Chronic Pain
and Analgesia
2009 National Institutes of Health, 2009/10 ZRG1 IFCN-A (58) R, RFA OD-09-003:
Challenge Grants Panel 8

2009 National Institute on Drug Abuse RFA-OD-09-004 entitled “Recovery Act
Limited Competition for NIH Grants: Research and Research Infrastructure
“Grand Opportunities” (RC2)
2009 National Institute on Drug Abuse Special Emphasis Panel, 2010/01 ZDA1 GXM-
A (07) 1, CEBRA Review
2010 National Institutes of Health, 2010/05 ZRG1 IFCN-B (03) M
2010 National Institutes of Health, 2010/08 ZDA1 LXF-L (01) - Loan Repayment
Program
2010 National Institutes of Health, 2010/10 ZRG1 IFCN-E (02) M
2010 National Institutes of Health, 2011/01 ZDA1 GXM-A (01) 1NIDA Research
Education and Science Education Program Review (R25)
2011 National Institutes of Health, 2011 ZRG1-IFCN-B-51
2011 National Institutes of Health, 2011/08 ZDA1 LXF-L (01) - Loan Repayment
2011 National Institutes of Health, 2011/10 ZRR1 RI-4 (01), COBRE 1, Part 2
2011 NIDA/NIH, ZDA1 GXM-A(01) Special Emphasis Panel
2012 National Institutes of Health, ZRG1 IFCN-B 51 R, RFA Panel: Challenge on the
Transition from Acute to Chronic Neuropathic Pain
2012 Chief Scientist Office, Scottish Government, St Andrew's House, Edinburgh EH1
3DG
2012 Qatar National Research Fund
2012 National Institutes of Health, 2012/08 ZDA1 LXF-L (01) 1, Loan Repayment
2012 National Institutes of Health, 2012/05 ZDA1 SXC-E (11) 1, Cutting-Edge Basic
Research Awards (CEBRA)(R21)
2012 National Institutes of Health Pain Consortium, Centers of Excellence in Pain
Education (CoEPEs)
2012 National Institutes of Health, 2013/01 ZRG1 ETTN-M (52) R, PAR12-077:
NINDS Competing Renewal Awards Of SBIR Phase II

2012	National Institutes of Health, 2013/01 ZRG1 ETTN-M (51) R, PAR09-259: Optimization of Small Molecule Probes For the Nervous System
2012	National Institutes of Health, 2013/01 ZRG1 ETTN-M (11) B, Small Business: Drug Discovery for Aging, Neuropsychiatric and Neurologic Disorders
2013	National Institutes of Health, ZRG1-IFCN-B-03M, Special Emphasis Panel: Member Conflicts: Pain and Hearing
2013	National Institutes of Health, Drug Discovery for Aging, Neuropsychiatric and Neurologic Disorders Small Business ETTN-M
2013	National Institutes of Health, 2013/08 ZDA1 LXF-L (01) 1, Loan Repayment
2013	NIH Initiative Concept Review, National Institute on Drug Abuse Office of Extramural Affairs Contract Review Branch
2013-2019	NIH 2014/01 ZRG1 ETTN-M (11) B, Small Business: Drug Discovery for Aging, Neuropsychiatric and Neurologic Disorders
2013-2019	NIH 2014/01 ZRG1 ETTN-M (50) RPAR11-304, Development of Appropriate Pediatric Formulations
2013, 2016	National Science Centre, Poland
2014-2021	NIH 2014/08 ZDA1 LXF-L (36) 1 NIDA Loan Repayment
2015	NIH, 2015/08 ZDA1 LXF-L (31) S
2017	NIH, N44DA-17, Contract Proposal Review, “Pain Mobile Remote Pain Management Systems”
2019	NIH, ETTN-B(18), Special Emphasis Panel
2019	NIH, Heal Initiative NCATs collaboration proposals
2020	NIH, ZRG1 ETTN-H (11)
2020	Chair, NIH, ETTN-H (14) Emerging Technologies and Training in Neurosciences IRG
2020	NIH, ZRG1 ETTN-H (11) - Small Business panel on Drug Discovery for Aging, Neuropsychiatric and Neurologic Disorders.
2021	NIH, ZRG1 ETTN-H (11) - Small Business: Drug Discovery for Aging, Neuropsychiatric and Neurologic Disorders.
2022 - present	NIH, Neurobiology of Pain and Itch
2022	NIH, 2023/01 ZNS1 SRB-S (11) 1, HEAL Initiative: Planning Studies for Initial Analgesic Development [Small Molecules and Biologics]

PRIMARY TEACHING RESPONSIBILITIES

2018-present	GMS 6705 - Functional Human Neuroanatomy
2017-present	GMS 6070-2B96 - Sensory Biology
2017-present	BMS 6020 - Clinical Neuroscience
2000-2017	GMS 6160 - Introduction to Oral Biology, UFCD
2000-2017	GMS 6161 - Introduction to Oral Biology, UFCD
2000-2003	GMS 6078 - Synaptic Function and Plasticity, University of Florida Interdisciplinary Program in Biomedical Sciences
2001-2003, 2010-2020	GMS 6022 - Introduction to Neuroscience, University of Florida Interdisciplinary Program in the Biomedical Sciences
2000-2001, 2010-present	DEN 5120C - Dental Neuroscience, UFCD

2002-2008	Director - DEN 5120C - Structure and Function of Body Systems I
2005-present	DEN 6678 - Adv Clin Dental Pharmacology
2002-2009, 2017-present	GMS 6711 - Neurobiology of Pain
2008-present	Director (2008 – 2020, 2022 – present) - DEN 6251 – The Science and Clinical Management of Dental Pain, Created the course and developed the content for the course. The course is required for all second-year dental students. 2020 – Redesigned DEN 6251 as an online course for the Covid-19 pandemic.
2012 - 2015	GMS 6023 - Principles of Neuroscience III – Neural Integration and Control
2012-2020	DEN 6680 - Principles of Craniofacial Biology & Emerging Therapies
2012-2020	DEN 6681 - Craniofacial Pathobiology
2014	DEN 7413C - Removable Partial Prosthodontics: Principles & Techniques
2014-present	BME 7980 - Doctoral Research
2014-2015	GMS 6711 - Neurobiology of Pain
2015-present	GMS 7979 – Advanced Research
2015-present	GMS 7980 - Research for Doctoral Thesis
2015-present	DEN 6910 – Supervised Research
2015-present	DEN 7540 – Oral Pathology

RESEARCH AND GRANT ACTIVITY

2022-2027	National Institutes of Health, National Institute of Arthritis and Musculoskeletal and Skin Diseases, “Innervation of the knee and TMJ” Co-PI: K. Allen, Co-PI: R. Caudle, Co-PI: A. Almarza
2022-2024	University of Florida Opportunity Grant, “Developing A New All-optical High-throughput Electrophysiology System For Personalized Drug Discovery” Co-PI: Xin Tang, Co-PI: R. Caudle, Co-PI: H. Khoshbouei, Co-PI: C. McCurdy
2020-2025	National Institutes of Health, National Institute on Drug Abuse, 1R01DA053071-01, “Opioid and cannabinoid interactions in pain and reward” Co-PI: J. Neubert, Co-PI: R. Caudle
2019-2022	National Institutes of Health, National Institute of Dental and Craniofacial Research, 1R43DE029379-01, “Therapeutic in situ analgesic implant for improved oral-facial post-operative pain” Co-PI: G. Beaton, Co-PI R. Caudle
2019-2022	Facial Pain Research Foundation, “Exploring Neuropeptide Guided Botulinum Light Chain for use in Blocking Pain Transmission” PI: R. Caudle
2018-2019	Friedman Consultants, “Operant Model Testing of Polymeric Analgesics” PI: R. Caudle
2018-2019	UFCD Seed Grant, “Low Dose Naltrexone for Treating Chronic Pain” PI: R. Caudle
2018-2023	National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, 1R01AR071431-01, “OA Pathogenesis beyond Cartilage: A preclinical study of the sources of OA pain”, PI: Kyle Allen, Co-PI R. Caudle
2018-2019	Veterans Administration, 36C24E18P0192, Animal research contract, PI: R. Caudle
2017-2019	Veterans Administration, AGR DTD 10-18-2017, “Mechanism of Gulf War Illness”, PI: Q. Zhou, Co-I: R. Caudle

- 2017-2019 Veterans Administration, 1101CX001477-01, “Mechanisms of Gulf War Illness”, PI: Q. Zhou, Co-I: R. Caudle
- 2015-2016 Facial Pain Research Foundation, “Mapping Towards A Cure Identification of Neurophysiologic Signatures of Trigeminal Neuralgia Pain”, Co-PI: J. Neubert, Co-PI: R. Caudle
- 2015-2017 Office of the Director, National Institutes of Health, 1R43OD020158-01, “Generation of hairless rat pain models” PI: R. Mills, Co-I: R. Caudle (Grant author)
- 2015-2016 PRICE, “Preclinical model of chemotherapy induced peripheral neuropathy” PI: R. Caudle
- 2014-2015 UFCD Seed Grant, “Mechanisms of Chemotherapy Induced Peripheral Neuropathy in TRPM8 Expressing Trigeminal Ganglion Neurons” PI: R. Caudle
- 2013-2014 PRICE-UFSCC, “Characterization of Chemotherapy Induced Peripheral Neuropathy and the Expression of Transient Receptor Potential Channels in a Murine Model” PI: R. Caudle
- 2010-2013 National Institute on Drug Abuse, National Institutes of Health, R21 DA030044, “Morphine Induced Alterations in NMDA Subunit Expression” PI: R. Caudle
- 2010-2013 National Institute on Drug Abuse, National Institutes of Health, R44 DA026220, “Operant Behavioral Instrument for Measuring Neuropathic Trigeminal Pain in Rodents” Co-PIs: R. Mills, J. Neubert, and R. Caudle
- 2009-2010 National Institute on Drug Abuse, National Institutes of Health, R43 DA026220, “Operant Behavioral Instrument for Measuring Neuropathic Trigeminal Pain in Rodents” Co-PIs: R. Mills, J. Neubert, and R. Caudle
- 2006-2008 National Institute of Dental and Craniofacial Research, National Institutes of Health, R21 DE016704, “Novel Operant Thermal Assessment of Orofacial Pain” Co-PI: J. Neubert, Co-PI: R. Caudle
- 2006-2012 National Institute of Neurological Diseases and Stroke, National Institutes of Health, R01 NS045614-01A2S1, “Dynorphin Modulation of N-Methyl-D-Aspartate (NMDA) Receptor Function”, PI: R. Caudle
- 2005-2012 National Institute of Neurological Diseases and Stroke, National Institutes of Health, R01 NS045614, “Dynorphin Modulation of N-Methyl-D-Aspartate (NMDA) Receptor Function”, PI: R. Caudle
- 2004-2005 University of Florida McKnight Brain Institute BSCRTF grant, “Dynorphin Modulation of N-Methyl-D-Aspartate (NMDA) Receptor Function”, PI: R. Caudle
- 2003-2005 National Institute on Drug Abuse, National Institutes of Health, R21 DA16562, “Targeted Cholera Toxin for the Treatment of Hyperalgesia”, PI: R. Caudle
- 2002-2003 University of Florida McKnight Brain Institute BSCRTF grant, “Alterations in spinal cord 5-HT, GABA and NMDA receptors following central nervous system trauma”, PI: R. Caudle
- 2001-2003 Christopher Reeve Paralysis Foundation, “Dynorphin Modulation of N-Methyl-D-Aspartate (NMDA) Receptor Function”, PI: R. Caudle
- 2000-2001 University of Florida McKnight Brain Institute BSCRTF grant, “Regulation of N-Methyl-D-Aspartate (NMDA) Receptor Function by the Opioid Peptide Dynorphin”, PI: R. Caudle
- 2000-2002 National Institute on Drug Abuse, National Institutes of Health, R03 DA13166, “Nociception and NMDA Receptor Phosphorylation”, PI: R. Caudle

- 1999-2000 University of Florida Brain Institute BSCRTF grant, "Regulation of spinal cord N-methyl-D-aspartate (NMDA) receptor phosphorylation", PI: R. Caudle
- 1998-1999 National Institute of Dental Research, National Institutes of Health Intramural Emerging Scientific Opportunities Grant, PI: R. Caudle
- 1991 National Research Service Award, National Institute on Drug Abuse, National Institutes of Health, F32 DA 05426, "Effect of Morphine Tolerance on Endogenous Opioid Action", PI: R. Caudle
- 1990-1991 National Science Foundation Fellow
- 1984 Sigma Xi Grant in Aid of Research- Awarded for research on dynorphin in the spinal cord, PI: R. Caudle
- 1984-1987 United States Public Health Service Predoctoral trainee

REFEREED PUBLICATIONS

- Caudle, R.M., Siegel, G. and Wood, W.F.: Preparation of propyl-N,N-diethylsuccinimate: An insect repellent. *J. Chem. Ed.* 59 (1982) 1069-1070.
- Caudle, R.M. and Isaac, L.: Intrathecal dynorphin (1-13) results in an irreversible loss of the tail-flick reflex in rats. *Brain Res.* 435 (1987) 1-6.
- Caudle, R.M. and Isaac, L.: A novel interaction between dynorphin (1 - 13) and an N-methyl-D-aspartate site. *Brain Res.* 443 (1988) 329-332.
- Caudle, R.M. and Isaac, L.: The Influence of dynorphin (1-13) on spinal reflexes in the rat. *JPET* 246 (1988) 508-513.
- Caudle, R.M. and Chavkin, C.: Mu opioid receptor activation reduces inhibitory post synaptic potentials in hippocampal CA3 pyramidal cells of rat and guinea pig. *JPET* 252 (1990).1361-1369.
- Wagner, J.J., Caudle, R.M., Neumaier, J.F. and Chavkin, C.: Stimulation of endogenous opioid release displaces mu receptor binding in rat hippocampus. *Neurosci.* 37 (1990) 45-53.
- Wimpey, T.L., Caudle, R.M. and Chavkin, C.: Chronic Morphine exposure blocks opioid effects on both the early and late inhibitory post synaptic potentials in hippocampal CA1 pyramidal cells. *Neurosci. Lett.* 110 (1990) 349-355.
- Caudle, R.M., Wagner, J.J. and Chavkin, C.: Endogenous opioids released from the perforant path modulate norepinephrine actions and inhibitory postsynaptic potentials in guinea pig CA3 pyramidal cells. *JPET* 258 (1991) 18-26.
- Wagner, J.J., Caudle, R.M. and Chavkin, C.: Kappa opioids decrease excitatory transmission in the dentate gyrus of the guinea pig hippocampus. *J. Neurosci.* 12 (1992) 132-141.
- Simmons, M.L., Wagner, J.J., Caudle, R.M. and Chavkin, C.: Endogenous opioid regulation of norepinephrine release in guinea pig hippocampus. *Neurosci. Lett.* 141 (1992) 84-88.
- Caudle, R.M.: The demonstration of long latency potentials in the CA1 region of the rat hippocampal slice. *Brain Res.* 613(2) (1993) 247-251.
- Caudle, R.M. and Williams, G.M.: The misuse of analysis of variance to detect synergy in combination drug studies. *Pain* 55 (1993) 313-317.
- Caudle, R.M., Chavkin, C. and Dubner, R.: Kappa2 opioid receptors inhibit NMDA receptor mediated synaptic currents in guinea pig CA3 pyramidal cells. *J. Neurosci.* 14 (1994) 5580-5589.
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- Caudle, R.M., Mannes, A.J. and Iadarola, M.J.: Activation of spinal kappa2 opioid receptors. *Emerging Therapeutic Targets* 1 (1997) 109-112.

- Caudle, R.M., Mannes, A.J., Iadarola, M.J.: GR89,696 is a kappa2 agonist and a kappa1 antagonist in the guinea pig hippocampus. *JPET* 283 (1997) 1342-1349.
- Caudle, R.M. and Dubner, R.: Ifenprodil blocks the excitatory effects of the opioid peptide dynorphin in the CA3 region of the guinea pig hippocampus. *Neuropeptides* 32 (1998) 87-95.
- Mannes, A.J., Caudle, R.M., O'Connell, B.C., and Iadarola, M.J.: Adenoviral gene transfer to spinal cord neurons: Intrathecal versus intraparenchymal administration. *Brain Research* 793 (1998) 1-6.
- Caudle, R.M., Finegold, A.A., Mannes, A.J., Tobias, M.D., Kenshalo, D.R., Iadarola, M.J.: Spinal k_1 and k_2 opioid binding sites in rats, guinea pigs, monkeys and humans. *NeuroReport* 9 (1998) 2523-2525.
- Benoliel, R., Eliav, E., Mannes, A.J., Caudle, R.M., Leeman, S. and Iadarola, M.J.: Actions of intrathecal diphtheria toxin-substance P fusion protein on models of acute and chronic pain. *Pain* 79 (1999) 243-253.
- Eliav, E., Herzberg, U. and Caudle, R.M.: GR89,696 blocks hyperalgesia and allodynia in rat models of peripheral neuritis and neuropathy. *Pain* 79 (1999) 255-264.
- Mannes A.J., Olah Z, Caudle R.M., Iadarola M.J.: Gene therapy for pain: In vitro and in vivo expression of beta endorphin using a replication defective adenoassociated virus *Anesthesiology Suppl. S*, 91 (1999) A879.
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- Caudle, R.M., Karai, L., Mena, N., Cooper, B.Y., Mannes, A.J., Perez, F.M., Iadarola, M.J. and Olah, Z.: Resiniferatoxin induced loss of plasma membrane in vanilloid receptor expressing cells. *Neurotoxicology* 24 (2003) 895-908.
- Caudle, R.M., Perez, F.M., King, C., Yu, C.-G. and Yeziarski, R.P.: N-methyl-D-aspartate receptor subunit expression and phosphorylation following excitotoxic spinal cord injury in rats. *Neurosci. Lett.* 349 (2003) 37-40.
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- Katz, J., Bhattacharyya, I., Farkhondeh-Kish, F., Perez, F.M., Caudle, R.M., Heft, M.: Expression of the receptor of advanced glycation end products in gingival tissues of type 2 diabetes patients with chronic periodontal disease: a study utilizing immunohistochemistry and RT-PCR. *J. Clin. Periodontol.*, 32 (2005) 40-44.
- Katz, J., Caudle, R.M., Bhattacharyya, I., Stewart, C.M., Cohen, D.M.: Receptor for advanced glycation end products (RAGE) upregulation in human gingival fibroblasts incubated with nornicotine. *J. Periodontol.*, 76 (2005) 130-133.

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- Del Valle-Pinero, A., Suckow, SK, Zhou, Q, Verne, GN and Caudle, RM: N-methyl-D-aspartate Receptors Activation Increases In Vivo colonic contractility after trinitrobenzene sulfonic acid (TNBS)-induced colitis. The 5th NIH Pain Consortium Symposium: Moving Towards Personalized Pain Management. National Institutes of Health. Bethesda, Maryland. Abstract 2010.
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- Nolan, T.A., Neubert, J.K., Jenkins, A.C. and Caudle, R.M.: Altered expression of NMDA NR1 splice variants in the medial pain system of rats expressing placebo analgesia. Society for Neuroscience Abstract, 2011.
- Anderson, E.M. and Caudle, R.M.: Long term changes in motivation during aversive conditions following morphine withdrawal are predicted by altered NMDAR1 splicing in the amygdala. Society for Neuroscience Abstract, 2012.

- Mustafa G, Anderson EM, Bokrand-Donatelli Y, Neubert JK, Caudle RM.: Antinociceptive effect of a conjugate of Substance P and Light chain of Botulinum neurotoxin Type A in a murine model. Society for Neuroscience Abstract, 2012.
- Bokrand-Donatelli Y, Caudle RM, Neubert JK: In the rat operant model, Intraperitoneal resiniferatoxin injections alter both nociceptive and non-nociceptive behaviors. Society for Neuroscience Abstract, 2012.
- Newsom, J, Holt, JL, Neubert, JK, Caudle, RM, Ahn, AH: A high density of TRPM8 expressing sensory neurons in specialized structures of the head. Society for Neuroscience Abstract, 2012.
- Del Valle-Pinero, AY, Majors, BL, Martino, AC, Anderson, EM, Caudle, RM, Henderson, WA: Tu1443 Altered Vasoactive Intestinal Peptide (VIP) Expression in Patients With Chronic Abdominal Pain (CAP), Gastroenterology, 2012:142(5): S-834
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- Rohrs E, Caudle RM, Neubert JK, Allan K: A Novel Operant-based Behavioral Assay of Mechanical Allodynia in the Orofacial Region of Rats. Biomedical Engineering Society Abstract, 2015
- Caudle RM, Caudle SL, Ahn AH, Neubert JK: Sex Differences in Response to Cool Temperatures in Mice. International Association for Dental Research Meeting Abstract, 2016
- Leite-Panissi, CR, Neubert, JK, Caudle, RM: Involvement of TRPV-1 receptors on thermal nociception in rats subjected to intraarticular persistent inflammation. Society for Neuroscience Abstract, 2017
- Colon-Perez, LM, Febo, M, Caudle, RM, Zuo, J, Zhou, Q: Topological changes in brain connectivity following visceral inflammation. Society for Neuroscience Abstract, 2018
- Borissova J, Febo M, Bruijnzeel A, Caudle RM, Setlow B, Neubert JK: Effects of Cannabis Smoke and THC on Rodent Pain Behaviors. Assay Guidance Manual Symposium: The opioid crisis and the future of addiction and pain therapeutics; Opportunities, Tools and Technologies. NIH 2019.
- Colon-Perez LM, Zuo J, Febo M, Caudle RM, Verne GN, Zhou Q: Alterations in brain functional connectivity in an animal model of colitis. DDW 2019 Abstract # 3154802.
- Neubert JK, Brice-Tutt AC, Febo M, Sharma A, Bruijnzeel AW, Murphy NP, Setlow B, Caudle RM: Evaluation of opiate effects on pain and reward seeking using a novel operant model. International Narcotics Research Conference Abstract 2021.
- Donertas-Ayaz B, Redler T, Brao R, Zou J, Boltz S, Caudle SL, Neubert JK, Caudle RM: Anti-nociceptive effect of a conjugate of CGRP and light chain of botulinum neurotoxin type A. The American Society for Pain & Neuroscience Abstract 2021.
- Friedman CD, Beaton G, Caudle RM: Surgical Pain Modeling with An Operant Orofacial Pain Assessment Device (OPAD). Abstract: #6460, American College of Surgeons Clinical Congress 2022 Scientific Forum

BOOKS/CHAPTERS/MONOGRAPHS:

- Caudle, R.M., Swearingen, E. and Chavkin, C.: Endogenously released opioids inhibit inhibitory post-synaptic potentials in guinea pig CA3 pyramidal cells and rat dentate granule cells. International Narcotics Research Conference (INRC), Progress in Clinical and Biological Research 328:5-8, 1990, Eds. Quiron, R. Jharnandas, K. and Gianolulakis, C., Alan R. Liss inc.
- Neubert, J.K., Caudle, R.M., Dolce, C., Toro, E.J., Bokrand-Donatelli, Y. and Holliday, L.S.: Neural Modulation of Orthodontic Tooth Movement, Orthodontics (2011), ISBN 978-953-307-298-2.

Caudle, R.M.: Memory in Astrocytes: A Hypothesis, Models and Applications of Chaos Theory in Modern Sciences, Ed. Elhadj Zeraoulia, CRC Press/Taylor & Francis, USA (2011), ISBN 978-1-57808-722-8

Iadarola M, Sapio M, Caudle R, Fitzgerald D, Mannes A (2021) Interventional administration of highly selective, neuronally directed agents for long term pain control, in Neuraxial Drugs . Yaksh T, ed. , in press.

PATENTS:

Methods of Treating Chronic Pain, US Patent # 6,596,269

Apparatus and Method for Assessing Operant Facial Pain, US Provisional Patent # 60/600,669

Targeted Cholera Toxin for the Treatment of Hyperalgesia, US Provisional Patent # 60/669,802,
Serial No. PCT/US06/13239

Targeted CRISPR/Cas9 Compositions, Systems, and uses thereof, US Provisional Patent #
62/266,079

EDITORIAL BOARDS:

Anesthesia & Analgesia – Reviewer

Anesthesiology – Reviewer

Biochemical Pharmacology – Reviewer

Biological Psychiatry – Reviewer

Brain and Behavior – Reviewer

Brain Research – Reviewer

British Journal of Pharmacology – Reviewer

Frontiers in Neuropharmacology – Associate Editor (2015 – present)

Frontiers in Molecular Neuroscience – Reviewer

Frontiers in Pharmacology – Translational Pharmacology - Guest Associate Editor (2020 - 2021) –
Research Topic: Verification of Animal Pain Models by Reverse Translation

International Association for Dental Research – 2003 annual meeting Abstract Reviewer

Journal of Biological Chemistry – Reviewer

Journal of Dental Research – Editorial Board (2002 - 2004)

Journal of Neurochemistry – Reviewer

Journal of Neurophysiology – Reviewer

Journal of Neuroscience – Reviewer

Journal of Pain – Reviewer

Journal of Pain Research – Editorial Board (2008 - present)

Journal of Pharmacology and Experimental Therapeutics – Reviewer

JoVE Behavior – Editorial Board (2013 - present)

Life Sciences – Reviewer

Molecular and Cellular Neuroscience – Reviewer

Molecular Neurobiology - Reviewer

Molecular Pain – Reviewer

Neurogastroenterology and Motility – Reviewer

Neuroscience – Reviewer

Neuroscience Letters – Reviewer

Osteoarthritis and Cartilage - Reviewer

Pain – Reviewer

Pain Research and Treatment - Reviewer

Pharmacological Research – Reviewer
Pharmacology Biochemistry and Behavior – Reviewer
Pharmacology Research & Perspectives – Reviewer
Physiology and Behavior – Reviewer
PLoS One – Reviewer
Science Translational Medicine - Reviewer
Spinal Cord – Reviewer
The Open Journal of Dentistry – Reviewer
Toxins – Reviewer

MENTORING ACTIVITY:

High School:

2011 Courtney Keene, Student Science Training Program, University of Florida

Undergraduate:

1994 and 1995 Janice Ho, Summer Intern, National Institute of Dental Research, National Institutes of Health

2000 -2001 Christopher King – Post-baccalaureate research experience.

2001 Raphael Ason – Summer research program for entering dental students, Class of 2005

2001 Kelly Clayton – Undergraduate research

2002-2003 Jen Liang - Undergraduate research, University of Florida Scholar.

2002-2003 David Mansour - Undergraduate research

2002 Manik Bedi - Undergraduate research

2002-2004 Anthony Gammichia - Undergraduate research

2002-2003 Jinette Bell - University Minority Mentor Program

2002-2005 Daniel Martinez - University Minority Mentor Program/ University of Florida Scholar.

2003 Elana Oliver - Undergraduate research

2004 Wael Sadek DMD – Post Graduate Research Experience

2004 Ehsan Sharaf-Eldeen – Undergraduate Honors Thesis Research Advisor

2005 Matthew Martin (Medical Student, Case Western Reserve) – Summer Research

2005-2007 Ingrid Paredes – Undergraduate Honors Thesis Research Advisor

2007-2008 Amy Price – Undergraduate Research

2008-2009 Ruan Cox – Undergraduate Research

2010-2012 Daniel Castillo – Undergraduate Research

2015-2016 Thomas Wang – Undergraduate Research

2015-2018 Grant Gallup – Undergraduate Research

2017-2018 Dianet C. Ramirez – Research Track DMD Student

2020-present Summer Boltz – Undergraduate Research Assistant

2021 Sarika Karri – BME Undergraduate Research Thesis Committee member

2021-present Lauren Fritz – Undergraduate Research Assistant

2022 University Scholars Program

2021-present My’Tasha Benson– Undergraduate Research Assistant

2022 University Scholars Program

Graduate:

2001-2002	Jintana Napaporn, Ph.D. Department of Pharmaceutics, College of Pharmacy, Member of Faculty Advisory Committee
2002-2006	Kris Rau. Ph.D. Department of Neuroscience, College of Medicine, Member of Faculty Advisory Committee
2005	Anthony Rodrigues, Ph.D. Department of Neuroscience, College of Medicine, Member Ph.D. Dissertation Committee
2003-2006	Anzir Moopen, DMD, MS, Department of Orthodontics, College of Dentistry, Member of Faculty Advisory Committee
2004-2009	Arseima Y. DelValle-Pinero, Ph.D. Department of Neuroscience, College of Medicine, Thesis Advisor
2004-2008	Heather Rossi, Ph.D. Department of Neuroscience, College of Medicine, Member of Faculty Advisory Committee
2005-2008	Melanie Wexel, DMD, MS, Department of Orthodontics, College of Dentistry, Member of Faculty Advisory Committee
2005-2009	Joslyn Ahlgren, Ph.D., Department of Physiological Sciences, College of Veterinary Medicine, Member of Faculty Advisory Committee
2006	Christopher King, Ph.D., Department of Neuroscience, Member of Dissertation Committee
2006-2009	Shelby Suckow, Ph.D., Department of Neuroscience, College of Medicine, Thesis Advisor
2009-2010	Ignacio Sarria, Ph.D. Candidate, Department of Neuroscience, Member of Faculty Advisory Committee
2009-2013	Ethan Anderson, Ph.D., Department of Neuroscience, College of Medicine, Thesis Advisor
2011-2012	Daniel Bass, DMD, MS, Department of Orthodontics, Member of Faculty Advisory Committee
2012-2016	Heidi Kloefkorn, Ph.D., Department of Biomedical Engineering, Member of Faculty Advisory Committee
2012-2016	Eric Rohrs, Ph.D., Department of Biomedical Engineering, Member of Faculty Advisory Committee
2012-2016	Scott Hardin, DMD, Ph.D., Department of Neuroscience, Member of Faculty Advisory Committee
2015-2017	Brittany Jacobs, Ph.D., Department of Biomedical Engineering, Member of Faculty Advisory Committee
2015-2017	Laura Bowden, DMD, MS, Department of Orthodontics, Member of Faculty Advisory Committee
2016-2018	Kenneth Gilbert, DMD, MS, Department of Orthodontics, Member of Faculty Advisory Committee
2016-2019	Gabrielle Zuzo, DDS, MS, Department of Orthodontics, Member of Faculty Advisory Committee
2016-2018	Sydney Jones, DMD, MS, Department of Orthodontics, Member of Faculty Advisory Committee
2017-2020	Kelsey Cronauer, DMD, MS, Department of Orthodontics, Member of Faculty Advisory Committee

2017-present	Taylor Yeater, Ph.D. Candidate, Department of Biomedical Engineering, Member of Faculty Advisory Committee
2018-2020	Rosalie Brao, DMD, MS, Department of Orthodontics, Member of Faculty Advisory Committee
2018-2021	Kelsey Ebach, DMD, MS, Department of Orthodontics, Member of Faculty Advisory Committee
2018-2021	Katherine Kapernaros DMD, MS, Department of Orthodontics, Member of Faculty Advisory Committee
2019-2022	Spencer Matthews DMD, MS, Department of Orthodontics, Member of Faculty Advisory Committee
2020-present	Eric Rabinowitz DMD, MS Candidate, Department of Orthodontics, Member of Faculty Advisory Committee
2020-present	Krystal Gage DMD, MS Candidate, Department of Orthodontics, Member of Faculty Advisory Committee
2020-present	Nathan G Reuter DMD, MS, Department of Orthodontics, Member of Faculty Advisory Committee
5/2020-8/2020	Alec Simonson – DMD student summer research program

Post-Doctoral:

2000-2001	Narasaiah Mena, Ph.D.
2008-2009	Christopher King, Ph.D.
2008-2010	Todd Nolan, Ph.D.
2010-2012	Yvonne Bokrand-Donatelli Pharm. D.
2011-2013	Golam Mustafa, Ph.D.
2020 – present	Basak Ayaz, Ph.D
2021 - present	Bruna Balbino, Ph.D.

Faculty:

2008-2010	John K. Neubert, DDS, Ph.D. – Assistant Professor Department of Orthodontics, University of Florida College of Dentistry, Mentor
2011-2018	Wellington Rody, DMD – Assistant Professor Department of Orthodontics, University of Florida College of Dentistry, Member of Advisory Committee
2014-2015	Christie Ramos Andrade Leite-Panissi, D.D.S., Ph.D., Dept. Morphology, Physiology and Basic Pathology, Ribeirão Preto Dentistry School, Brasil
2020-present	Xin Tang, Ph.D. – Assistant Professor Department of Mechanical & Aerospace Engineering, University of Florida College of Engineering

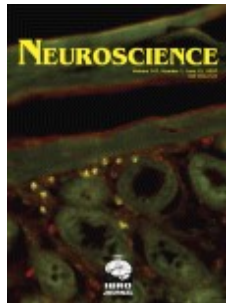
PRESENTATIONS:

1996	Guest lecturer American University Senior Seminar Series, "Gene therapy using viruses"
1996	Invited Speaker University of Maryland School of Dentistry, "Multiple roles of the endogenous opioid peptide dynorphin in nociception."
1997	Guest lecturer American University Senior Seminar Series, "Novel pain therapies"
1999	Organizer and Co-Chairman, Society for Neuroscience Symposium, "Exciting new advances in pain research and treatment using receptor internalization technologies."

- 2000 Invited Speaker National Institute of Dental and Craniofacial Research, National Institutes of Health, "Cultivating professional relationships: A pathway to employment".
- 2000 Invited Speaker National Institute of Dental and Craniofacial Research, National Institutes of Health, "The multiple roles of dynorphin in nociception".
- 2001 Organizer and Co-Chairman, Society for Neuroscience Ancillary Symposium, "Translation of Genetic Research to Pain Treatment".
- 2007 Invited speaker - Cyber Therapy 2007 - Bridging Basic Pain Research, Conventional Pain Treatments and VR Pain Treatments, "Understanding Pain, Past to Present"
- 2013 University of Florida Department of Physiological Sciences - Exploiting agonist induced G-protein coupled receptor internalization to manipulate neuron function
- 2014 Invited speaker – Spring Brain Conference - Targeting Central Nociceptive Neurons with the Light Chain of Botulinum Toxin A
- 2018 Invited Speaker – University of Florida Mini Medical School, *Ouch! The Experience of Pain*. Presentation Title: "Mr. Mouse can you tell me where it hurts? Exploring the biochemistry of pain transmission."
- 2019 Invited Speaker - Facial Pain Research Foundation Meeting – "Exploring Neuropeptide Guided Botulinum Light Chain for use in Blocking Pain Transmission"
- 2022 Invited Speaker - Facial Pain Research Foundation Meeting – "Exploring Neuropeptide Guided Botulinum Light Chain for use in Blocking Pain Transmission"

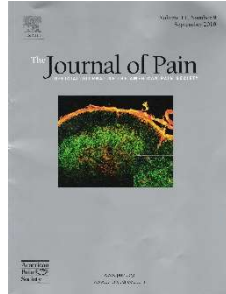
MISCELLANEOUS:

- 1992-1998 Organizer for an introduction to NIH research for Elementary school children.
- 1999 Science Fair Judge, Lincoln Middle School, Gainesville, FL
- 1999-2000, 2003-2004 Career Day Speaker, Kimball Wiles Elementary School, Gainesville, FL
- 2001-2002 Treasurer, Kimball Wiles Elementary School Safety Patrol Boosters, Gainesville, FL
- 2002-2005 Forensics Judge, Eastside High School, Gainesville, FL
- 2007 Cover Photomicrograph on *Neuroscience*, Volume 147(1).



- 2008-2009 Treasurer, Eastside High School Thespian Boosters, Gainesville, FL
- 2008-2009 Assistant Softball Coach, Lincoln Middle School
- 2010 Cover Photomicrograph on *The Journal of Pain*, Volume 11(9)

Curriculum Vitae – Robert M. Caudle, Ph.D.
January 20, 2023



2011-2012
2015-present

President Gainesville High School Softball Boosters, Gainesville, FL
Member, Kimball Wiles Elementary School Advisory Committee,
Gainesville, FL

2014-2021

Assistant Softball Coach, Gainesville High School, Gainesville, FL,
2016 – 7A State Champions