

# Curriculum Vitae

## Personal information

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Michela (Micky) Marinelli

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## Degrees

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1997 Ph.D., Neuroscience and Pharmacology, University of Bordeaux 2, Bordeaux, France (summa cum laude)

1991 B.S. in Pharmacy, University of Rome La Sapienza, Rome, Italy (110/110 summa cum laude)

1986 International Baccalaureate, Ecole Internationale de Genève, Geneva, Switzerland/St. Stephen's School, Rome, Italy.

## Training

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- 1997- 2000 Post-doctoral fellow (with Professor F.J. White)  
Neuropsychopharmacology laboratory, Dept. of Cellular and Molecular Pharmacology  
Finch University of Health Sciences/The Chicago Medical School, North Chicago, IL, USA  
*Research topics: Behavioral and electrophysiological determinants of vulnerability to addiction.*
- 1992-1997 Graduate student (with Professor M. Le Moal and Dr. P.V. Piazza)  
Laboratoire des comportements adaptatifs, INSERM U259; Université de Bordeaux 2, Bordeaux, France.  
*Research topics: Glucocorticoid hormones, stress, dopamine & behavioral responses to addictive drugs.*
- 1989-1992 Student to obtain degree in Pharmacy (with Professor L. Angelucci and Dr. A. Catalani)  
Istituto di Farmacologia Medica II, University of Rome "La Sapienza", Rome, Italy  
*Research topics: Glucocorticoid hormones and adaptive behaviors; influence of the post-natal environment on the behavior, physiology and neurochemistry of adult rats.*
- 1989 Trainee in pharmaceutical techniques (with Dr. R. Gallotta)  
Gallotta Pharmacy, Rome, Italy  
*Research topics: Compounding and optimization of medications.*
- Sept 1989 Trainee in applied pharmacology (with Dr. N. Corsico)  
Bracco Pharmaceutical Industry, Milan, Italy  
*Research topics: Contrast media and anaphylactic reactions.*

## Academic appointments

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- Sept 2013-now The University of Texas at Austin, Austin, TX, USA**  
Research topics: neuroscience of motivated behavior  
*During my time at the University of Texas at Austin, I held the following titles*
- Sept 2017-now Associate Professor, Department of Neuroscience, College of Natural Sciences  
Affiliate or courtesy appointments in the Department of Neurology and the Department of Psychiatry and Behavioral Sciences (Dell Medical School) and the Division of Pharmacology and Toxicology (College of Pharmacy).
- Sept 2020-Aug 2026 Graduate Advisor, Interdisciplinary Neuroscience Program
- Sept 2019-May 2021 Associate Chair, Department of Neuroscience, College of Natural Science  
(note: I terminated this position when my husband became Chair of the department)
- Oct 2013-Sept 2017 Associate Professor, Division of Pharmacology and Toxicology, College of Pharmacy

- Aug 2003-July 2016**      **Rosalind Franklin University of Medicine and Science (RFUMS)**  
 (formerly Finch University of Health Sciences), North Chicago, IL, USA  
 Research topics: Cellular and molecular mechanisms of drug addiction
- During my time at the Rosalind Franklin University I held the following titles and maintained an adjunct title until 2015 because I continued teaching at this institution as guest lecturer*
- June 2010–July 2016    Adjunct Associate Professor, Dept. of Pharmaceutical Sciences, College of Pharmacy
- July 2007-July 2013    Director of Graduate Studies in Cellular and Molecular Pharmacology
- Mar 2007-Sept 2013    Associate Professor, Dept. of Cellular and Molecular Pharmacology
- Aug 2003-Mar 2007     Assistant Professor, Dept. of Cellular and Molecular Pharmacology
- Mar 2001 - July 2003**      **Université de Bordeaux 2, Bordeaux, France**  
 Chargé de Recherche (French equivalent of Assistant Professor).  
 Laboratoire des comportements adaptatifs, INSERM U259 (currently U588)  
 Research topics: Cellular and molecular mechanisms of vulnerability to drug addiction;  
 Role of gene/environment interactions in vulnerability to drug addiction.
- May 2000 - Mar 2001**      **Finch University of Health Sciences, Chicago Medical School, North Chicago, IL, USA**  
 Research Assistant Professor, Dept. of Cellular and Molecular Pharmacology  
 Research topics: Electrophysiological correlates of vulnerability to dopamine-related disorders.

### **Research Interests**

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Rodent models of drug addiction liability with focus on impact of stress, adverse events, punishment, sex, age

Role of the lateral preoptic area in motivation

Simple and common errors in published literature

Impact and alternatives to the use of restraint and seclusion in schools and psychiatric settings

Cognitive biases that impact learning in college students

Scholarship of teaching and learning in higher education

### **Recent Awards**

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- 2025                      Pillar award from Texas Blazers (the only official student organization at UT Austin) for exemplary service to the community
- 2023                      Rigor Champions Prize, NINDS/NIH (awarded in 2024) – [Link to description](#)
- 2022                      Teaching Excellence Award from the College of Natural Sciences, UT Austin
- 2020                      “Texas 10” – given to the 10 most inspiring professors at UT Austin (nominated by alumni and selected by the Alcalde magazine. These are professors that their former students, upon reflection and with the benefit of hindsight, consider having made a lasting impact on their lives). [Link to description](#).

### **Teaching-related activities at UT Austin**

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- 2024                      Chair of the curriculum committee for the Interdepartmental Neuroscience Program (INP). The curriculum committee had not met for numerous years. I am tasked to evaluate and improve the curriculum when it comes to topics taught, outcomes sought, methods of teaching and evaluating students, and sequencing.
- 2022-now                Member of the committee tasked to create a solid program in quantitative neuroscience for undergraduate students.

2020-now	Graduate student advisor for the INP. In addition to doing standard advisory activities, I helped reorganize qualifying exams and ensured that lectures for core courses have outcomes, and I helped the 16 instructors in the course write such outcomes. I also helped increase student monitoring.
2000-now	Member of the undergraduate teaching committee. We meet weekly to discuss teaching matters, course organization, and to design the curriculum.
2016-2017	Member of the “Pharmacotherapy taskforce” committee to revise the PharmD curriculum
2014-2015	Chair of Workgroup “Graduate and postdoctoral education/training” for the College’s Strategic Plan

## ***Classroom Teaching at UT Austin***

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### **Overview**

2017-now	Direct and teach one 3h/week course and one 1h/week course. Also teach selected lectures across diverse student bodies including undergraduate students, graduate students, students pursuing different healthcare professions, medical students, and psychiatry residents, as well as summer interns (high school students or undergraduate students).
2014-2017	Directed or co-directed one 6h/week course, two 3h/week courses, and one 4h/week course for PhD or PharmD students; additionally taught ~160 hours per year (classroom lectures/small-group exercises).

Role as guest instructor: I give one or more lectures in the course.

Role as instructor: I give one or more lectures in the course and participated in developing the curriculum for the course.

\* denotes my role as director or co-director of a course or section of a course.

### ***Undergraduate or graduate courses***

2026-now	<b>Communication skills in Neuroscience (NEU 185L, NEU 285L)</b> Topics: Key elements of talks, Information processing, Layout of talks, Infographics & concept maps, Visualizing data, Peer reviews. * Role: Course creator, director, and instructor (1 h/week in 2026 and 2h/week in 2027, to PhD students in the interdisciplinary Neuroscience Program)
2024-now	<b>LEADER (Leveraging Education, Access, Diversity, Experience, and Research) Research Program</b> Topic: Literature analysis. Role: Guest instructor (1-2 h/yr, to Undergraduate students in the LEADER research program)
2021-now	<b>Principles of Neuroscience II (NEU 382T)</b> Topic: Neuropeptides and neuromodulation. Role: Guest instructor (~1.5 h/yr to PhD students in the interdisciplinary Neuroscience Program)
2020-now	<b>Responsible conduct of science (NEU 185 and PGS 185)</b> Topic: Data management, and case studies. Role: Guest instructor (~1 h/yr to PhD students from various Colleges)
2020	<b>Career development for neuroscientists (NEU 394P)</b> Topic: The academic system: who’s hired? Role: Guest instructor (1.5 h/yr to PhD students and senior Undergraduate students from various Colleges)
2019-now	<b>Analytical skepticism (NEU 367S and NEU 385L)</b> Topics: Seeing, quantifying, and presenting data, Cognitive illusions, Scientific bias, Approaches to testing a hypothesis (experimental design), Assessing probabilities, Quantifying-analyzing data, Normalizing data. Link to description of the course <a href="#">presentation at CSICon (~15 min)</a> or <a href="#">presentation at C4R (watch first 10 min)</a> . * Role: Course creator, director, and instructor (4 h/week – 3h lecture and 1h discussion – to Undergraduate students mostly in the Neuroscience program and some PhD students in the Interdisciplinary Neuroscience program)

- 2018 **Neural systems II (NEU 335)**  
Topic: Drug addiction. Role: Guest instructor  
(2 h/yr to Undergraduate students in the Neuroscience program)
- 2016-2017 **Principles in Neuroscience (NEU 482T)**  
Topic: Neuropharmacology (pharmacokinetics and pharmacodynamics). Role: Guest instructor  
(~2 h/yr, to PhD students from the Institute for Neuroscience)
- 2015-2016 **Principles in Neuroscience (NEU 482T)**  
Topic: Grant writing. Role: Guest instructor  
(~8 h/yr, to PhD students from the Institute for Neuroscience)
- 2014-2023 **Young people and drugs (UGS 302 & UGS 303)**  
Topics: Animal models of addiction, factors that enhance vulnerability to addiction. Role: Guest instructor  
(~3 h/yr to first year Undergraduate students from various Colleges)
- 2014-2020 **Neurobiology of addiction (NEU 365W)**  
Topics: Psychostimulants, and (from 2019) animal models of addiction and principles in pharmacology.  
Role: Instructor  
(~3-6 h/yr, to Undergraduate students from various Colleges)
- 2014-2017 **Pharmacological mechanisms of addiction (PGS 388K & NEU 385L)**  
Topics: Animal models, Sedatives, Alcohol, Psychostimulants, Inhalants and solvents, Cannabinoids, Nicotine, Opioids, Hallucinogens, Genetics & Genomics, Medications and treatment, Hot topics  
\* Role: Course co-director (with Dr. R.O. Messing) and instructor  
(~3 h/week to PhD students from the Pharmacology and Toxicology, Institute for Neuroscience, or Institute for Cellular and Molecular Biology Program)
- 2014-2017 **Principles in Experimental Design & Biostatistics (PGS 388K, PGS 380S)**  
Topics: Cognitive biases, Experimental design theory and practice, Why we need statistics, Describing & presenting data (written, graph, oral), Introduction to statistics (focus on ANOVA, Chi Square, Confidence intervals, Pearson and Spearman Correlations, Power analysis), Normalizing data theory and practice, Brief notions on Multivariate analysis. \* Role: Course creator, director, and instructor  
(~3 h/week to PhD students from the Pharmacology and Toxicology, Biomedical Engineering, and Institute for Neuroscience)
- 2013-2016 **Oral and Written Communication for Scientists (PGS 478Q)**  
Topics: Scientific manuscripts (abstract, introduction, methods, results, discussion), Oral presentations (style and content) for lay or scientific audiences \* Role: Course co-director and instructor  
(4 h/week to PhD and MS students from different programs).

### ***Upper-division courses to professional schools (College of Pharmacy, Dell Medical School)***

- 2026-now **Neuroscience for psychiatrists**  
Topic: Hormones. Role: Instructor  
(~2 h/yr, to 1<sup>st</sup> year Psychiatry residents)
- 2021 **Addiction Psychiatry Fellowship**  
Topic: Neurobiology of addiction; Role: Coordinator and instructor for section “neurobiology of addiction”  
(~6-8h/yr to Psychiatry residents)
- 2020-2022 **PGY1 Adult Psychiatry Curriculum**  
Topic: Basics of evidence. Role: Course creator and instructor  
(~2-4 h/yr, to 1<sup>st</sup> year Psychiatry residents)
- 2020-2022 **Innovation, Leadership, and Discovery, Research Distinction Track (MS3 ILD)**  
Topic: Research design. Role: Creator of this section and instructor  
(~2-6 h/yr, 3<sup>rd</sup> year Medical student)

- 2017            **Foundations for Inter-Professional Collaborative Practice (S2017 IPE)**  
 Topics: Small-group collaborative exercises on Motivational interviewing, Addiction care, Error disclosure, Palliative care, applying TeamSTEPPS to transitions of care, Inter-professional collaborative practice. Role: Guest instructor (~18 h/yr, to Medical, PharmD, Nursing, and Social Work students)
- 2016-2019      **Physiology, Pathophysiology, and Drug Targets (PHM 480C)**  
 Topics: Seizures, Parkinson’s Disease, dementias, schizophrenia, addiction, anxiety, major depressive disorder, bipolar disorder, compare and contrast disorders, case studies. Role: Instructor (7 h/yr to PharmD students from the College of Pharmacy)
- 2016            **Pharmacotherapeutics III (PHM 685F)**  
 Topics: Surgical & pain, psychiatry, neurology, oncology.  
 \* Role: Course director for 14 faculty across 4 UT sites (no lecturing)  
 (6h/week; to PharmD students across 4 UT sites: Austin, El Paso, San Antonio, Rio Grande Valley)

***Community Teaching at UT Austin (selected topics)***

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These activities included lectures, workshops, discussions, and training activities for students at different stages of training.

- 2024-now        Yearly presentation and discussion with undergraduate students in the Neuroscience program on “why and how to apply to graduate school” (1 h/yr)
- 2018-now        Coordination of learning experiences and training activities for summer interns from Women in Neuroscience and local high schools. The foundation helps women, minority, and economically disadvantaged students pursue studies and careers in neuroscience. My role included coordinating and giving lectures, training, and discussions on research skills, data management, and career choices. It also included weekly reflections, lunch meetings, and discussions to ensure student progress and expectations were being met (duration of commitment varies across years, from minimum of ~2 h to maximum of ~40 h)
- 2024            Discussion of career paths and research with Dean’s Scholars (1.5 h)
- 2024            Discussion of career paths and research with students in the Synapse organization (1.5 h)
- 2021-now        Yearly lecture with live “online” demonstrations on animal models of addiction to high school students in the UT Summer Discovery Neuroscience course (1.5 h/yr)
- 2020            Instructor for the Interdisciplinary Neuroscience Program graduate-student bootcamp; coordinated and led activities on “perils in science,” including lectures, discussions, laboratory activities, and assessment
- 2018-2019      Science course for summer interns from different UT Austin programs (high school, undergraduate, minority fellowships, etc...). The course introduced students to the scientific method, scientific bias, reading, interpreting, and presenting data, and data management. (6 h/week for 6 weeks in 2018; ~10 h total in 2019)
- 2018, 2019      Instructor for the Interdisciplinary Neuroscience Program graduate-student bootcamp; coordinated and led activities on “behavioral neuroscience,” including lectures, discussions, laboratory activities, and assessment
- 2014            Q&A panel regarding the interview process for academic positions (Pharmacy Graduate Student Association) (1.5 h)
- 2014            Presentation and discussion on undergraduate research opportunities and the Undergraduate Research Mentorship (URM) program (1 h x two sessions)
- 2014            Sponsored and helped students in the Public Health program with their participation in the College of Natural Science "Think Big" Competition. The project focused on implementing an effective pharmaceutical take-back program

## ***Classroom Teaching at Rosalind Franklin University of Medicine and Science***

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### ***Chicago Medical School***

- 2006-2013 Cognitive Processing-Based Review for USMLE Step 1**  
Topics: Pharmacokinetics, clinical applications of pharmacokinetics, pharmacodynamics  
Role: Guest instructor  
(3 h/yr, to Medical students who have not passed USMLE step 1, from various Universities in the USA)
- 2003-2015 Foundations of medical pharmacology (MCMP 600A)**  
Topics: Basic principles in pharmacology, pharmacokinetics, clinical applications of pharmacokinetics, pharmacodynamics. Role: Instructor  
(7 h/yr, to 2<sup>nd</sup> year Medical students)  
Note: I traveled from Austin to Chicago to teach this course in 2014 and 2015
- 2003-2012 Medical pharmacology (MCMP 600A-C)**  
Topics: Small group problem-solving exercises on medications used to treat: Parkinson's, hypertension, cancer, asthma, diabetes, psychopharmacology. Role: Instructor  
(~8-12 h/yr, to 2<sup>nd</sup> year Medical students)

### ***College of Health Professions and College of Pharmacy***

- 2012-2014 Basic pharmacokinetics and pharmacodynamics (YPHS 600)**  
Topics: Drug absorption and pharmacodynamics. Role: Guest instructor  
(2h/yr, to 2<sup>nd</sup> year PharmD students in the College of Pharmacy).  
Note: I traveled from Austin to Chicago to teach this course in 2014
- 2012-2013 Intro Clinical Med for Physician Assistants (HPAS 538)**  
Topic: Pharmacokinetics. Role: Guest instructor  
(2 h/yr, to 2<sup>nd</sup> year students in the Physician Assistant program)
- 1999-2001 & 2003-2004 Pharmacotherapy (HPAS 601)**  
Topics: Physiology of blood pressure regulation, antihypertensive drugs and diuretics  
Role: Guest instructor  
(6 h/yr, to 2<sup>nd</sup> year students in the Physician Assistant program)

### ***School of Graduate and Postdoctoral Studies***

- 2011-2013 Principles in Experimental Design & Biostatistics (GIGP 514)**  
Topics: Cognitive biases, The scientific method, Basic statistical principles, Presenting data  
\* Role: Course creator, director, and instructor  
(~25-30 h/yr, to PhD students in the IGPBS program)
- 2009-2013 Research skills beyond the bench (GCMP608)**  
Topics: Scientific meetings, manuscripts, grants, research administrative duties.  
\* Role: Course creator, director, and instructor  
(~20-30 h/yr, to PhD students from various departments)
- 2007-2013 MCB II Molecular and Cellular Biology II (GIGP 502)**  
Topics: Principles of biomolecular action. Role: Instructor  
(~9 h/yr, to PhD students from the IGPBS program)
- 2006, 2012 Ethics in biomedical research (CGS 724)**  
Topics: scientific fraud, record-keeping, authorship. Role: Discussant  
(~2 h/yr, to PhD students from various programs)
- 2005-2013 Neuropharmacology I & II (GCMP 601 & GCMP 602)**  
Topics: Basic principles in pharmacology, techniques in neuropharmacology, experimental design

Role: Instructor  
(~10 h/yr, to PhD students from various departments)

**2005-2006 Brain frontiers: Advanced topics in neuroscience research (MTD 710)**  
Topics: Addiction, brain and behavior. Role: Guest instructor  
(6 h/yr, to PhD students from the Neuroscience Interdepartmental Program)

**2004-2006 Journal Club series, Dept. Cellular & Molecular Pharmacology**  
\* Role: course director

### ***Guest lectures and additional teaching and teaching-related activities***

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- 2017 Teaching mentor, University of Binghamton, Binghamton,**  
I was hired by Dr. Gloria Meredith, the newly appointed Dean of the College of Pharmacy at the University of Binghamton to train an Assistant Professor in teaching pharmacology, for topics of pharmacokinetics, clinical applications, and pharmacodynamics. Having previously observed my teaching, the Dean specifically selected me to ensure excellence in this training.
- 2005-03-09 Plasticity and regeneration (ANAT 521)**  
University of Illinois at Chicago, Chicago, IL. Role: Guest instructor (Course director: Dr. J.R. Unnerstall)  
Topic: Neuroadaptations of the dopamine system that may increase vulnerability to addiction.  
(1 h, to PhD students from the Department of Anatomy and Cell Biology)
- 2004-03-15 Medical sciences (M5330)**  
The University of Michigan, Ann Arbor, MI Role: Guest instructor (Course director: Dr. T.E. Robinson)  
Topic: Approaching addiction mechanisms through dopamine cell excitability  
(1 h, to PhD students from the Neuroscience program)
- 2002-2003 “Préparation à l’agrégation en sciences de la vie et de la Terre”**  
Program for France’s highly selective national teaching exam (agrégation) in life and earth sciences.  
University of Bordeaux 1, Talence, France  
Topics: Theories of drug dependence, mechanisms of drug action.  
Role: Instructor (Course director: Prof. J.M Cabelguen)  
(6 h/yr, to students of the “preparation à l’agrégation”)
- 2001-11-21 The use of electrophysiology in neuroscience research.**  
University of Bordeaux 2, Bordeaux, France  
\* Role: Course creator and instructor  
(1.5 h/yr, to PhD students from the neuroscience and pharmacology program).
- 2000-12-03 Statistics and data analysis**  
University of Bordeaux 2, Bordeaux, France  
\* Role: Course creator and instructor  
(2.5 h/yr, to PhD students from the neuroscience and pharmacology program).

## **Student Mentoring and Development**

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### **Commitment to mentorship**

2025: Certification from [CIMER](#) (Center for the Improvement of Mentored Experiences in Research, in academia).

### **Graduate and postdoctoral training**

#### Mentorship of graduate students leading to Master's or PhD degrees and of postdoctoral fellows

Mentored or co-mentored 7 students who earned their Master's or PhD degree in my lab, 1 MD/PhD student, and 4 post-docs.

2026	Zorana Opachich	Master's Student, Interdisciplinary Neuroscience Program, UT Austin <b>Co-mentor</b> with Dr. R.O. Messing
2021-2024	Kevin Uribe	Postdoctoral fellow, Neuroscience, UT Austin, <b>Mentor</b> <i>Current position: Grants and contracts specialist, UT Austin, TX</i>
2020-2022	Adriana Gregory-Flores	Master's Student, Institute for Neuroscience, UT Austin, <b>Co-Mentor</b> with Dr. R.O. Messing <i>Current position: Technical associate, Guidehouse, Baltimore, ME</i>
2020-2021	Lauren Smith	Postdoctoral fellow, Dept. of Neuroscience, <b>Mentor</b> (NIAAA Training grant held in the College of Pharmacy, UT Austin) <i>Current position: Freelance science communicator consultant and writer</i>
2015-2016	Anna Mutti	Visiting Master's student from the University of Trento, Italy, <b>Mentor</b> <i>Current position: Postdoctoral researcher, Medizinische Universität Innsbruck, Innsbruck, Austria</i>
2014-2019	Adam Gordon	PhD Student, Institute for Neuroscience, UT Austin (NSF fellowship), <b>Mentor</b> <i>Current position: Assistant Professor, Rutgers University, NJ</i>
2014-2018	Matthew Pomrenze	PhD Student, Institute for Neuroscience, UT Austin (NSF fellowship) <b>Co-Mentor</b> with Dr. R.O. Messing <i>Current position: Postdoctoral fellow with Dr. Malenka, Stanford University, CA</i>
2014-2016	Ryan Will	PhD Student, Dept. of Psychology, UT Austin, <b>Co-Mentor</b> with Dr. J. Dominguez <i>Current position: Data scientist at Meta, Austin, TX</i>
2013	Robert Twining	Postdoctoral fellow, Dept. of Cellular & Molecular Pharmacology, Rosalind Franklin University, <b>Mentor</b> <i>Current position: Clinical Assistant Prof. Marquette University, Milwaukee, WI</i>
2009-2012	WaiChong (Vivian) Wong	MD/PhD Student, Dept. of Cellular & Molecular Pharmacology, Rosalind Franklin University, <b>Mentor</b> <i>Current position: Dermatologist at Skin Wellness Physicians, Naples, FL</i>
2007-2011	James McCutcheon	Postdoctoral fellow, Dept. of Cellular & Molecular Pharmacology, Rosalind Franklin University, <b>Mentor</b> <i>Current position: Professor in Biological Psychology, Department of Psychology, UiT The Arctic University of Norway, Tromsø, Norway</i>
2004-2008	Kelly Conrad	PhD Student, Dept. of Neuroscience, Rosalind Franklin University, <b>Co-Mentor</b> with Dr. M.E. Wolf <i>Current position: National Director - Field Medical Affairs, Neuro Pipeline at Ionis Pharmaceuticals, Nashville, TN</i>

### Supervision without formal advisor role

Mentored or co-mentored 3 students for whom I served as day-to-day supervisor but not the official advisor

2004-2005	Charles Rudick	PhD Student, Neuroscience Program, Northwestern University Dr. Heckmann advisor <i>Current position: Assistant Dean for Medical Student Education, Phase 1 Curriculum</i>
2001-2003	Frédéric Ambroggi	PhD Student - Thesis in neuroscience & pharmacology, Dr. Piazza advisor <i>Current position: Academic Researcher, Aix-Marseille University, France</i>
1998-2001	Cindy Brandon	PhD Student, Dept. of Cellular Biology and Anatomy, Dr. White advisor <i>Deceased. Previous position: Medical Information Specialist, Takeda</i>

### Graduate and professional student rotations

Mentored 20 PhD, 2 PharmD, 4 MS, and 6 MD students performing rotations in my lab; some continued to do a PhD in the lab

2024	Anuska Martinez	MD	Psychiatry, Dell Medical School, UT Austin
2024	Angel Phan	MD	Psychiatry, Texas Tech University, El Paso
2023	Zorana Opachich	PhD	Neuroscience, UT Austin
2023	Caroline Walsh	MD	Psychiatry, Dell Medical School, UT Austin
2022-2023	Nicholas Russell	PhD	Pharmacology & Toxicology, UT Austin
2020	Peyton Demetrovich	PhD	Neuroscience, UT Austin
2019	Leah Truckenbrod	PhD	Neuroscience, UT Austin
2017	Adrian Bates	PhD	Neuroscience, UT Austin
2017	Emma Brockway	PhD	Neuroscience, UT Austin
2016	Uzma Ahmed	PharmD	Pharmacology & Toxicology, UT Austin
2016	Katy Seloff	PhD	Neuroscience, UT Austin
2016	Philip Lambeth	PhD	Neuroscience, UT Austin
2015	Haoming Jiang	PhD	Pharmacology & Toxicology, UT Austin
2014	Isaac Perales	PharmD	Pharmacology & Toxicology, UT Austin
2011	Mark Bamman	MD	Summer Research Fellowship, RFUMS
2010	Dylan Burdette	PhD	IGPBS, RFUMS
2009	Michael DeMeyer	PhD	IGPBS, RFUMS
2008	Krishna Ganapathy Subramanian	PhD	IGPBS, RFUMS
2008	WaiChong (Vivian) Wong	PhD	IGPBS, RFUMS
2008	Karen Goldfarb	PhD	IGPBS, RFUMS
2006-2008	Steven Carr	MD	Summer Research Fellowship; MD with distinction, RFUMS
2006-2008	Harbinder Khangura	MD	Research experience, RFUMS
2004	Alexander Dec	PhD	Neuroscience, RFUMS
2004-2005	Vipin Yadav	PhD	Cellular and Molecular Pharmacology, RFUMS
2003-2004	Kelly Conrad	PhD	Neuroscience, RFUMS
2000	Somnath Basu	PhD	Neuroscience, RFUMS
1999	Kiryaki Sidiropoulou	PhD	Neuroscience, RFUMS
1998	Mark Fons	PhD	Cellular and Molecular Pharmacology, RFUMS
1996	Bruno Aouizerate	MS	Neuroscience & pharmacology, INSERM
1996	Frédéric Piat	MS	Neuropharmacology & drug addiction, INSERM
1995	Michèle Brun	MS	Neuropharmacology & drug addiction, INSERM
1994	Stéphane Le Maux	MS	Neuropharmacology & drug addiction, INSERM

RFUMS: Rosalind Franklin University (or its former name: Finch University of Health Sciences)

IGPBS: Interdisciplinary graduate program in biomedical sciences

INSERM: Institut national de la santé et de la recherche médicale

## ***Undergraduate training***

### Research assistants and volunteers

Mentored 34 undergraduate students who conducted research in my lab as volunteers, for credit, or for pay (\*)

2026-now	Caroline Freeman	BSA	Chemistry, UT Austin
2025-now	Anushka Mehrotra	BS	Biology, UT Austin
2025-now	Pari Baggu	BS	Biology, UT Austin
2025-now	Rithika Nagarajan	BS	Biology, UT Austin
2025-now	Pooja Mohalkar	BSA	Neuroscience, UT Austin
2025-now	Sashricaa Manoj	BSA	Neuroscience, UT Austin
2025-now	Sheevani Talati	BSA	Neuroscience, UT Austin
2024-now	Alisha Spears	BS	Neuroscience, UT Austin
2024-now	Shivali Chava	BS	Public Health, UT Austin
2024-now	Sid Vadlamani	BS	Biochemistry, UT Austin
2024-now	Jasmine Chou	BSA	Neuroscience, UT Austin
2024	Chole Lee	BSA	Neuroscience, UT Austin
2023-now	Anjana Reddy	BSA	Neuroscience, UT Austin
2022-2026	Lauren Sukhu	BSA	Biology, UT Austin
2021-2023	Lulu Eisenberg*	BSA	Neuroscience, UT Austin
2021-2022	Sabuhie Abdulrahman Zafar	BS	Neuroscience, UT Austin
2020-2023	Aarushi Sharma	BS	Neuroscience, UT Austin
2020-2022	Roxanna Shababi	BS	Neuroscience, UT Austin
2020-2021	Ishana Syed	BS	Neuroscience, UT Austin
2020-2021	Mazmu Islam	BS	Neuroscience, UT Austin
2020-2021	Neerul Gupta	BS	Psychology, UT Austin
2020-2021	Stephanie Noble-Hernandez	BS	Neuroscience, UT Austin
2019-now	Jason Tsai*	BS	Neuroscience, UT Austin
2019-now	Sofia Piperno*	BSA	Neuroscience, UT Austin
2018	Mary Fang	BS	Neuroscience, UT Austin
2018	Meredith Ramba	BS	Cells & organisms, Minerva College
2017-2018	Lydia Gordon-Fennell*	BS	Neuroscience, UT Austin
2017	Luis Barrientos	BS	Neuroscience, UT Austin
2015	Sahare Wazirali	BS	Neuroscience, Social inequality, Health policy, UT Austin
2009	Ben Bienia	BS	Chemistry & Biology, Lake Forest College
2009	Staphanie Feld	BS	Science in Nursing, Lake Forest College
2009	Bobby Hodges	BS	Biology, Lake Forest College
1997	Frank Soury	BS	Physiology, INSERM
1995	Sandrine Colpaert	BS	Physiology, INSERM

INSERM: Institut national de la santé et de la recherche médicale

### Summer internships (high school and undergraduate students)

Mentored 9 students in short-term summer research experiences in my lab

2023	Maria Rangel	Women in Neuroscience
2023	Nikita Jacob	Women in Neuroscience
2022	Aundrea Hodges	Women in Neuroscience
2018	Kayla Zinsmeyer	Ann Richards High School, Women in Neuroscience
2018	Pritika Paramasivam	Westwood High School, WCAAR summer internship
2018, 2019	Rishob Gupta	Westwood High School, WCAAR summer internship

2017	Sebastian Cordrey	UT Austin/Crockett High School Internship Program
2017	Niveya James	Summer High School Research Academy Program
2016, 2019	Lorraine-Rana Benhamou	WCAAR internship; Kaplan Hillman scholar, Women in Neuroscience
	WCAAR: Waggoner Center for Alcohol and Addiction Research	

Interdisciplinary mentorship (polymathic and Plan II undergraduate students)

Mentored 9 undergraduate students in Plan II (interdisciplinary honors program) and polymathic training tracks (broad, integrative training across disciplines) who completed projects either independently or in my lab (\*)

2025-now	Lauren Sukhu*	BSA	Polymathic Scholars, Biology UT Austin
2025-now	Cameron Boswell	BSA	Polymathic Scholars, Neuroscience UT Austin
2025-now	Shubhranshu Mishra	BSA	Polymathic Scholars, Neuroscience UT Austin
2024-2025	Ren Daley	BS	Polymathic Scholars, Neuroscience UT Austin
2024-2025	Luke Martin	BS	Plan II Honors, Neuroscience UT Austin
2022-2023	Kris Hipolito	BSA	Polymathic Scholars, Neuroscience UT Austin
2022-2023	Willa Scanlon*	BS	Plan II Honors. School of Social Work, UT Austin
2021-2022	Sreya Yalamanchili	BA	Plan II Honors, Neuroscience, UT Austin
2020-2021	Sarah Muir	BA	Plan II Honors, Psychology, UT Austin

**Student committees**

Graduate and theses committees

Served on 38 PhD and 2 MS thesis committees; 6 students conducted research in my lab and the others did not

2026-now	Amy Howard	PhD	Champagne	Psychology	UT Austin, TX
2026	Zorana Opachic	MS	Marinelli/Messing	Neuroscience	UT Austin, TX
2023-now	Bailey Remmers	PhD	Dobbs	Neuroscience	UT Austin, TX
2020-2022	Adriana Gregory-Flores	MS	Marinelli/Messing	Neuroscience	UT Austin, TX
2018-2023	Dylan Kirsh	PhD	Lippard	Neuroscience	UT Austin, TX
2019	Isis Gil Miravet	PhD	Miquel	Psychology	Univ. Jaume I, C. Plana, Spain
2017-2019	Joel Shillinglaw	PhD	Morrisett	Pharm/Tox	UT Austin, TX
2017-2018	Phillip Lambeth	PhD	Morrisett	Neuroscience	UT Austin, TX
2017	Alicia Avelar	PhD	Beckstead	Neuroscience	UT San Antonio, TX
2014-2106	Shannon Zandy	PhD	Gonzales	Pharm/Tox	UT Austin, TX
2014-2020	Adam Gordon	PhD	Marinelli	Neuroscience	UT Austin, TX
2014-2018	Matthew Pomrenze	PhD	Messing/Marinelli	Neuroscience	UT Austin, TX
2014-2016	Ryan Will	PhD	Dominguez	Psychology	UT Austin, TX
2013-2016	Emily Hankosky*	PhD	Gulley	Psychology	Univ. Ill Champaign Urb, IL
2012	Marguerite Matthews	PhD	Moghaddam	Neuroscience	Univ. Pittsburgh, PA
2011-2015	Daniel Thomases	PhD	Tseng	Cell & Molec Pharm	RFUMS, IL
2011-2015	Andrew Scheyer	PhD	Wolf	Neuroscience	RFUMS, IL
2011-2012	Stephanie Ebner	PhD	Roitman	Psychology	Univ. Illinois Chicago, IL
2010-2015	Shannon Blume	PhD	Rosenkranz	Cell & Molec Pharm	RFUMS, IL
2010-2011	Holden Brown	PhD	Ragozzino	Neuroscience	Univ. Illinois Chicago, IL
2009-2013	Wei Zhang	PhD	Rosenkranz	Cell & Molec Pharm	RFUMS, IL
2009-2012	WaiChong (Vivian) Wong	MD/PhD	Marinelli	Cell & Molec Pharm	RFUMS, IL
2009-2012	Xuan Li	PhD	Wolf	Neuroscience	RFUMS, IL
2009-2012	Xiaoting Wang	PhD	Wolf	Neuroscience	RFUMS, IL
2007-2010	Alexander Dec	PhD	West	Neuroscience	RFUMS, IL
2007-2010	Jeremy Reimers	PhD	Wolf	Neuroscience	RFUMS, IL

2007-2009	Woojin Song	MS/PhD	Kosson	Psychology	RFUMS, IL
2006-2010	Amy Herrold	PhD	Napier	Pharmacology	Loyola University, IL
2006-2008	Amanda Raskowski	PhD	Urban	Psychology	RFUMS, IL
2005-2010	Robin Voigt	PhD	Napier	Pharmacology	Loyola University, IL
2005-2007	Maud Morshedi	MD/PhD	Meredith	Cell & Molec Pharm	RFUMS, IL
2005	Amy Herrold	MS	Napier	Pharmacology	Loyola University, IL
2005	Lionel Dahan	PhD	Chouvet	Neuroscience	University Lyon, France
2004-2008	Evgenia Megalou	PhD	Frost	Cell Bio & Anatomy	RFUMS, IL
2004-2008	Kelly Conrad	PhD	Wolf/Marinelli	Neuroscience	RFUMS, IL
2004-2007	Amy Boudreau	MD/PhD	Wolf	Neuroscience	RFUMS, IL
2004-2005	Anna Hallbergson	MD/PhD	Peterson	Neuroscience	RFUMS, IL
2004	Danting Liu	MS	West	Neuroscience	RFUMS, IL
2003-2005	Charles Rudick	PhD	Heckman	Neurobiol/Physiol	Northwestern Univ., IL
2002-2005	Frédéric Ambroggi	PhD	Piazza	Neurosci/Pharm	Univ Bordeaux, France

### Qualifying exam committees

Served as examiner on 26 qualifying exam committees for both breadth (general knowledge) and depth (specialized) portions  
 \* indicates general knowledge portion only.

2023	Britt Mardis*	PhD	Phelps	Neuroscience	UT Austin, TX
2023	Kat Motovilov*	PhD	Brager & Colgin	UT Austin, TX	UT Austin, TX
2022	Hioroichi Yoshida*	PhD	Seidemann	Neuroscience	UT Austin, TX
2022	Bailey Remmers	PhD	Dobbs	Neuroscience	UT Austin, TX
2022	Yuezhong Liu*	PhD	Wei	Neuroscience	UT Austin, TX
2018	Nicole Keller	PhD	Dunsmoor	Neuroscience	UT Austin, TX
2018	Emma Brockway	PhD	Drew	Neuroscience	UT Austin, TX
2018	Dylan Kirsh	PhD	Lippard	Neuroscience	UT Austin, TX
2017	Joel Shillinglaw	PhD	Morrisett	Pharm/Tox	UT Austin, TX
2017	Phillip Lambeth	PhD	Morrisett	Neuroscience	UT Austin, TX
2016	Adam Gordon	PhD	Marinelli	Neuroscience	UT Austin, TX
2015	Tira Meyers	PhD/MS	Morrisett	Pharm/Tox	UT Austin, TX
2015	Matthew Pomrenze	PhD	Messing	Neuroscience	UT Austin, TX
2011	Shannon Blume	PhD	Rosenkranz	Cell & Molec Pharm	RFUMS, IL
2009-2013	Wei Zhang	PhD	Rosenkranz	Cell & Molec Pharm	RFUMS, IL
2009-2012	WaiChong (Vivian) Wong	MD/PhD	Marinelli	Cell & Molec Pharm	RFUMS, IL
2009-2012	Xuan Li	PhD	Wolf	Neuroscience	RFUMS, IL
2009-2012	Xiaoting Wang	PhD	Wolf	Neuroscience	RFUMS, IL
2006-2010	Steven Carr	MD	Marinelli	MD with distinction	RFUMS, IL
2006	Randy Leitermann	PhD	Urban	Neuroscience	RFUMS, IL
2006	Jeremy Reimers	PhD	Wolf	Neuroscience	RFUMS, IL
2005, 2006	Alexander Dec	PhD	West	Neuroscience	RFUMS, IL
2004-2007	Michael Vercillo	MD	Meredith	MD with distinction	RFUMS, IL
2004	Kelly Conrad	PhD	Wolf/Marinelli	Neuroscience	RFUMS, IL
2003, 2004	Victor Marinescu	PhD	Frost	Cell & Molec Pharm	RFUMS, IL
2003, 2004	Evgenia Megalou	PhD	Frost	Cell Bio & Anatomy	RFUMS, IL

## **Faculty development workshops**

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Conducted workshops for faculty at UT Austin.

- 2026-04-09 CIMER workshop on effective mentoring skills to faculty in Computer Sciences. Topics covered: Group dynamics (group-oriented and self-oriented behaviors), maintaining effective communications, aligning expectations, fostering independence, promoting professional development, and cultivating ethical awareness. (7 h)
- 2025-10-07 & 2024-10-08 “Cognitive Biases and common errors impacting research.” Required workshop for the Responsible Conduct of Research for NIH/NSF-funded researchers. (1h/yr)
- 2021 (fall) Writing workshop for junior faculty, postdoctoral fellows, and graduate students covering information processing, ways to describe data, and the structure of a paper (sentences, paragraphs, overall) (12 h)
- 2014-09-10 “Faculty survival” series: “What I wish I had been told when I joined the College of Pharmacy faculty”, UT Austin (2 h)

## **Talks**

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Gave ~ 100 talks at international meetings, national meetings, or Universities. Talks are organized by category.

### **Invited talks about my teaching abilities and developing programs**

Invitations to present teaching practices and strategies, and to discuss the design of programs in education in science.

- 2025-09-10 “Creating and teaching scientific rigor courses”. C4R25 Community for rigor 2025 conference, Philadelphia, PA. [Link to the 10-min presentation \(with additional 20 min of discussion\)](#).
- 2025-04-23 “Teaching Scientific Rigor” NIH/NINDS showcase of programs and activities (online webinar). This webinar featured some recipients of the NIH/NINDS Rigor Champions Prize. I was invited to present my teaching of scientific rigor through the course Analytical Skepticism. [Link to the 10-min presentation \(see min 45-55 for my portion\)](#) (link also provide in list of courses taught).
- 2024-12-03 “Designing Engaging Pharmacology Courses Using Videos.” JoVE (online webinar). I was honored to be asked to serve as an expert teacher, demonstrating innovative strategies for creating engaging content in pharmacology education.
- 2023-03-30 Public talk on “Opportunity Through Discovery” – a discussion on the WiN program, to provide training, teaching and research opportunities to women of underrepresented minorities.” (OLLI-LAMP)
- 2022-10-23 “Analytical Skepticism in the Classroom.” CISCon (Conference for the Center for Scientific Inquiry), Las Vegas, NV. I was one of six individuals selected to present at this international conference, where I delivered a talk showcasing the design and impact of the course Analytical Skepticism. The presentation highlighted how the course equips students to think critically about science. [Link to the ~15 min presentation.](#)

### **Invited talks on cognitive biases**

Invitations to present work on cognitive biases and their impact on scientific thinking and interpretation of data.

- 2025-12-09 “How the brain deceives itself: bias, error, & the illusion of objectivity”. Neurology Grand Rounds, UT Austin [Link to the ~45 min presentation.](#)
- 2025-05-16 “The illusions of objectivity in science”, Graduate student distinguished lecture. Dept. of Pharmacology, Toxicology & Neuroscience, Louisiana State University, Shreveport, LA.
- 2021 Four public talks to the lay public on the same theme: “The Fooled Brain: How We Are Easily Misted When Processing Data and Making Decisions,” presented in Austin TX in these venues:  
-2021-06-10 UT Tower Fellows  
-2021-06-09 Metropolitan breakfast club  
-2021-10-07 OLLI-LAMP (Osher Lifelong Learning Institute - Learning Activities for Mature People)

-2021-02-25 UT Brainstorms (presentation to the Austin public) during “Texas science festival”. [Link to the ~45 min presentation](#). (~2300 views) and [link to interview](#).

2019-09-17 “How cognitive illusions interfere with science”. WCAAR (Waggoner Center for Alcohol and Addiction Research) seminar series, Austin, TX

2019-04-23 Public talk on “Analytical Skepticism”, aimed at helping the lay public critically evaluate scientific news OLLI-LAMP (Osher Lifelong Learning Institute - Learning Activities for Mature People)

### ***Invited talks about my research***

Talks at international and national meetings and at universities, focused on my research on drug addiction. Most are podium presentations; some are panel discussions. Talks are organized in two categories, according to type of venue.

Talks for the lay public are labeled “(Lay)”

#### *Talks/Seminars at international and national meetings or panels, or at center retreats*

2022-05-22 “Effects of methylphenidate and methylphenidate plus fluoxetine on cocaine self-administration and reinstatement of cocaine seeking behavior”. Dopamine 2022 meeting, Montreal, Canada. Panel organizer: H. Steiner. Panel title: “SSRI antidepressants potentiate effects of psychostimulants on forebrain circuits and behavioral markers for addiction liability”.

2018-05-04 “Factors that influence vulnerability to addiction”. Plenary talk for the 16th annual retreat of the Center for Biomedical Neuroscience, San Antonio, TX.

2018-02-09 “Biological factors that determine diversity and vulnerability to drug use and relapse: science-based studies in rodents”. TRSA (Texas Research Society on Alcoholism). 28th Annual Meeting, Austin, TX. Panel organizers: M. Marinelli and L. Holleran Steiker. Panel title: “A Bio-Psycho-Social-Spiritual model: Interdisciplinary, evidence-based perspectives on substance use disorders and related risk among youth and emerging adults”

2016-01-28 “The lateral preoptic area: a new role in cocaine seeking”. WCBR (Winter Conference on Brain Research). 49th Annual Meeting, Breckenridge, CO. Panel organizer: D. Barker. Panel title: “The place of the lateral preoptic area–lateral hypothalamic continuum in the control of adaptive and pathological motivated behavior”.

2014-03-21 “Dopamine reward circuits and their relevance to addiction”. WCAAR Advance (2nd Annual meeting of the Waggoner Center for Alcohol and Addiction Research), Austin, TX.

2013-04-29 “Adolescence: a period of increased vulnerability to cocaine addiction” Annual Neuroscience Symposium at Kent State University: The neuroscience of mental health, Kent, OH.

2011-08-09 “Dopamine neuron activity and addiction liability”. Gordon Research Conference on Catecholamines, Lewiston, ME. Meeting organizers: RM Carelli and A Bonci.

2010-11-15 “Adolescent rats are more vulnerable to drug addiction than adult rats”. Society for Neuroscience Press Conference, San Diego, CA.

2009-10-17 “Animal models of addiction: What do they mean and how good are they?”. Society for Neuroscience, “Meet the experts” series. Chicago, IL.

2009-06-03 “Factors that enhance vulnerability to addiction”. Joint Service Drug Laboratory Training Symposium, Naval Station, Great Lakes, IL. Host: JJ Snyder.

2009-01-26 “Dopamine neuron activity and relationship to addiction”. WCBR (Winter Conference on Brain Research). 42nd Annual Meeting, Copper Mountain, CO. Panel organizer: K Franz. Panel title: “The fountain of youth: is adolescent plasticity part of the story?”.

2008-10-01 “Factors affecting vulnerability to cocaine addiction: a systems approach”. International Symposium on Drug Addiction, Kunming, China. Meeting organizers: X Zhuang, A Bonci, L Xu.

- 2008-05-07 “Effects of stress on dopamine neurons of the ventral tegmental area and interaction with drugs of abuse”. Meeting on Alcoholism and Stress: A Framework for Future Treatment Strategies, Volterra, Italy. Symposium organizer: MS Brodie.
- 2008-01-30 “Dopamine neuron activity and relationship to addiction”. WCBR (Winter Conference on Brain Research) 41st Annual Meeting, Snowbird, UT. Panel organizer: F Georges. Panel title: “Drugs of abuse: what dopamine neurons do and don’t do!”.
- 2007-11-02 “Developmental changes in the dopamine reward system and addiction”. First annual Julius Axelrod Satellite Symposium at the Society for Neuroscience meeting, San Diego, CA. Sponsors: NIMH, NIDA, NINDS.
- 2007-07-12 “Dopamine neuron activity in animal models of drug addiction”. Impulse Control Disorders in Parkinson’s Disease Workshop, Toronto, Canada. Workshop director: M Stacy.
- 2007-02-26 “Greater excitability of midbrain dopamine cells in adolescent vs. adult rats”. Keystone Symposium on Neurobiology of Addiction, Santa Fe, NM. Symposium organizer: LW Role. Symposium title: “Focus on vulnerability states”.
- 2007-01-29 Workshop panelist at the WCBR (Winter Conference on Brain Research) 40th Annual Meeting, Snowmass, CO. Workshop on “Dopaminergic burst firing and behavior: are you and I talking about the same thing?”. Workshop organizer: K Anstrom Kelly.
- 2006-01-10 “Behavioral and electrophysiological consequences of adolescent exposure to psychostimulant drugs in rats”. Pharmacology, Biochemistry & Behavior Conference, 7th Meeting: Adolescence: Alcohol, Drugs and Mental Disorders, Morzine, France. Symposium organizer: WA Carlezon.
- 2005-11-13 “Stress- and drug-induced plasticity of dopamine neurons: relevance to addiction”. Neuroscience annual meeting, Washington DC. Symposium title: “Neuroplasticity induced by abused drugs: is it relevant to addiction?”. Symposium organizers: Y Shaham and WA Carlezon.
- 2005-06-01 “Electrophysiological correlates of addiction liability”. 4th Dutch Endo-Neuro-Psycho Meeting, Doorwerth, The Netherlands. Symposium organizer: GM Ramakers.
- 2005-04-05 “Adolescent exposure to stimulants: Consequences on addiction liability”. XXXV International Congress of Physiological Sciences, ASPET (American Society for Pharmacology and Experimental Therapeutics), San Diego, CA. Symposium title: “Adolescent drug abuse: long-term effects of exposure of the developing brain to drugs of abuse”. Symposium organizers: KA Cunningham and RN Pechnick.
- 2004-07-18 “Dopamine neuronal activity codes for addiction liability”. FASEB (Federation of American Societies of Experimental Biology), meeting on “Modern scientific approaches to drug addiction: Relationship with behavior”, Tucson, AZ. Symposium title: “Psychostimulants”. Symposium organizers: FJ White and P O’Donnell.
- 2004-05-01 “Stress, dopamine neurons and self-administration”. SOBP (Society of Biological Psychiatry) 59th Annual Meeting, New York, NY. Symposium title: “Basic models and clinical neuroscience of stress induced drug relapse”. Symposium organizer: JF Neumaier.
- 2004-02-25 “Impulse activity of dopamine cells and vulnerability to cocaine addiction”. WCNP (Winter Conference on Neural Plasticity) 16th Annual Meeting, St. Lucia, West Indies. Symposium organizer: DC Cooper. Symposium title: Motivation and reward in plasticity and learning.
- 2004-01-29 “Stress, dopamine neurons and behavioral response to psychostimulant drugs”. WCBR (Winter Conference on Brain Research) 37th Annual Meeting, Copper Mountain, CO. Panel title: “Stress, drug abuse, and synaptic plasticity”. Panel organizer: Y Shaham.
- 2003-12-09 “Changes in impulse activity of midbrain dopamine cells associated with psychostimulant addiction”. ACNP (American College of Neuropsychopharmacology) 42nd Annual Meeting, Puerto Rico. Symposium title: “The language of the dopamine neuron: what spike activity tells us about function”. Symposium organizers: AA Grace and M Marinelli.

- 2003-07-11 “The interaction between glucocorticoid hormones and dopamine transmission modulates the behavioral response to addictive drugs”. IBRO 6th World Congress of Neuroscience, Prague, Czech Republic.. Symposium organizers: RC Malenka and M Diana.
- 2002-06-24 “Corticoids and aminergic interactions”. CINP (Collegium Internationale Neuro-Psychopharmacologicum) XXIII Meeting, Montreal, Canada. Symposium organizer: J Herbert.
- 2001-09-11 “Glucocorticoid regulation of dopaminergic activity in the nucleus accumbens”. EBBS/EBPS 1st Joint Meeting, Marseille, France. Symposium organizer: KA Cunningham.
- 2000-06-19 “Electrophysiological correlates of enhanced vulnerability to cocaine self-administration”. College on Problems of Drug Dependence (CPDD), 62nd Annual Meeting, San Juan, Puerto Rico.. Symposium organizer: L. Gold.

Talks/Seminars at Universities, research centers, or community centers

- 2024-10-16 “What is the Role of the Lateral Preoptic Area in Reward?” Dept. Anatomy & Cell Biology, University of Illinois at Chicago, Chicago, IL. Host: A. Miguelez Fernandez
- 2019-03-27 (Lay) “The craving brain”. Parent Enrichment Program, St. Andrew’s Episcopal School (presentation to parents of high school students), Austin, TX. Host: L. Duchon
- 2018-10-17 “Factors and pathways that lead to addiction”. Behavioral Neuroscience Seminar Series, Department of Psychology, UT Austin, Austin, TX. Host: M. Monfils
- 2018-10-08 “Factors and pathways that lead to addiction”. ICHAN School of Medicine, New York, NY. Host: P. Kenny
- 2018-09-29 (Lay) “The craving brain: a conversation about vulnerability to drug addiction”. UT Brainstorms (presentation to the Austin public), Austin, TX. [Link to the ~45 min presentation](#) (~3000 views)
- 2018-08-31 “Factors and pathways that enhance addiction liability”. Cognition and Neuroscience Program, The University of Texas at Dallas, TX. Host: C. McIntyre
- 2018-05-15 “Towards Solving the Problem of Substance Misuse and Addiction among Youth and Emerging Adults”, Pop-up institute Summit, Austin, TX. Presenter/discussant in the panel “Wellness of campus and beyond”.
- 2018-05-04 “Factors that influence vulnerability to addiction”. Plenary talk for the 16th annual retreat of the Center for Biomedical Neuroscience, San Antonio, TX.
- 2018-04-25 “Towards Solving the Problem of Substance Misuse and Addiction among Youth and Emerging Adults”, Coffee talks, Pop-up institute Austin, TX. “Adolescence, stress, and punishment: how these factors impact the risk for addiction”. [Link to the ~20 min presentation](#)
- 2018-04-02 (Lay) “The Neurobiology of Drug Addiction/Revising our Current Thinking of Addiction”. YSAPC (Travis County Youth Substance Abuse Prevention Coalition), bi-monthly meeting, Austin, TX. Hosts: M Muñoz and S. Rainbolt
- 2018-02-28 (Lay) “Understanding rats and the neurological bases of addiction”. CSR (Center for Students in Recovery), SOAR (Seminar on Addiction Research), Austin, TX. Host: J. Harris
- 2018-02-20 (Lay) “Revising our current thinking about addiction”. OLLI-LAMP (Osher Lifelong Learning Institute - Learning Activities for Mature People) lecture series, Austin, TX. Host: W. Whitney
- 2018-01-27 (Lay) Panel member after the presentation “The addicted brain: a conversation about drug addiction” by R.O. Messing. UT Brainstorms (presentation to the Austin public), Austin TX.
- 2017-10-14 (Lay) Panel member after the presentation “The miswired brain, a conversation about autism” by A. Brumback. UT Brainstorms (presentation to the Austin public), Austin TX.
- 2017-09-13 “Measuring reward response in rodents, using DSM-5 criteria”. WCAAR (Waggoner Center for Alcohol and Addiction Research) seminar series, Austin, TX. Host: R.O. Messing

- 2016-04-13 “Adolescents don’t fear punishment in the face of reward: possible involvement of dopamine”. WCAAR (Waggoner Center for Alcohol and Addiction Research) seminar series, Austin, TX. Host: R.A. Harris
- 2015-09-02 “The lateral preoptic area: a new role in cocaine addiction”. WCAAR (Waggoner Center for Alcohol and Addiction Research) seminar series, Austin, TX. Host: R.A. Harris
- 2014-10-16 “Factors that influence vulnerability to addiction: a focus on age and stress”. Neurobiology Seminar Series. UT San Antonio, San Antonio, TX. “Host: M. Wanat
- 2014-09-24 “Stress, youth, and dopamine: interactions that lead to drug addiction”. Behavioral Neuroscience seminar series, UT Austin, Austin TX. Host: J. Dominguez
- 2014-01-29 “Mechanisms underlying addiction liability: a work in progress”. WCAAR (Waggoner Center for Alcohol and Addiction Research) seminar series, Austin, TX. Host: R.A. Harris
- 2013-04-16 “Dopamine neuron activity and addiction liability”. Interdepartmental Program in Neuroscience, The University of Utah, Salt Lake City, UT. Host: A Schwager (Graduate student)
- 2012-07-10 “Dopamine neuron activity and addiction risk”. Center for Neuroscience, University of Pittsburgh, Pittsburgh, PA. Host: B Moghaddam
- 2012-04-06 “Factors that influence addiction liability: insights from rodent studies”. Dept. of Psychiatry and Behavioral Sciences, Northwestern University, Feinberg School of Medicine, Chicago, IL Host: E Goulding
- 2011-11-08 “Addiction risk and excitability of dopamine neurons”. Pharmacology/Toxicology, The University of Texas at Austin, Austin, TX. Host: RA Morrisett
- 2011-06-16 “Dopamine neuron activity & relationship to vulnerability to addiction”. Dopamine Club series for South Texas Universities, University of San Antonio, San Antonio, TX. Host: DJ Lodge
- 2010-11-24 “Animal models of addiction”. Dept. Cellular and Molecular Pharmacology, Rosalind Franklin University of Medicine and Science, North Chicago, IL. Host: K-Y Tseng
- 2010-10-08 “Age, stress, and dopamine neurons: factors facilitating cocaine addiction”. Alcohol and Drug Abuse Research Program, Washington State University, Pullman, WA. Host: Y Dong.
- 2010-03-12 “Stress, drugs, and dopamine: interactions that increase addiction liability”. Dept. of Physiology and Biophysics, University of Illinois at Chicago, Chicago, IL. Hosts: Graduate students in the Physiology and Biophysics program.
- 2009-11-03 “Stress, drugs, and dopamine cells: Interactions that promote addiction liability”. Integrative Neuroscience Research Center, Marquette University, Milwaukee, WI. Host: JR Mantsch.
- 2009-10-07 “Stress, drugs, and dopamine cells: Interactions that promote addiction liability”. Dept. of Biology, Loyola University North Shore Campus. Chicago, IL. Hosts: JJ Kelly and LR Lucas.
- 2009-04-07 “Dopamine neurons and drug addiction liability: Studies in rodent models”. Depts. of Biology & Psychology (Neuroscience Minor), Loyola University North Shore Campus, Chicago, IL. Host: LR Lucas.
- 2009-02-19 “Dopamine neuron activity signals predisposition to drug addiction: behavioral and electrophysiological studies in rodents”. Dept. of Biological Sciences, University of Illinois at Chicago, Chicago, IL. Host: MF Roitman.
- 2008-05-21 “Is the adolescent brain more susceptible to addiction?”. Dept. of Pharmacology, Rush University Medical Center, Chicago, IL. Host: TC Napier.
- 2008-03-11 “Stress, drugs, and dopamine cells: Interactions that promote addiction liability”. Dept. of Pharmacology, University of Washington, Seattle WA. Host: PEM Phillips.
- 2007-10-12 “Stress, drugs, and plasticity of dopamine neurons: relevance to drug addiction”. Dept. of Molecular Pharmacology and Biological Chemistry, Northwestern University, Chicago, IL. Host: M Dubocovich.
- 2007-09-12 “Stress, drugs, and plasticity of dopamine neurons: relevance to drug addiction”. Dept. of Pharmacological and Experimental Therapeutics, Boston University School of Medicine, Boston, MA. Host: RC Pierce.

- 2007-03-27 “Stress, drugs, and plasticity of dopamine neurons: relevance to addiction”. Dept. of Pharmacological and Physiological Science, Saint Louis University School of Medicine, St. Louis, MO. Host: DS Zahm.
- 2006-09-20 “Stress, drugs, and plasticity of dopamine neurons: relevance to drug addiction”. Gallo Clinic and Research Center, UCSF, Emeryville, CA. Host: A Bonci.
- 2006-03-15 “Stress, drugs and plasticity of dopamine neurons: relevance to cocaine addiction”. Dept. Pharmacology, Loyola University Medical Center, Maywood, IL. Host: A Marchese.
- 2006-03-01 “Life events, plasticity of dopamine neurons, and drug addiction”. Dept. Cellular & Molecular Pharmacology. RFUMS/Chicago Medical School, North Chicago, IL. Host: JA Potashkin.
- 2005-11-04 “Dopamine: the mastermind for drug addiction”. Dept. Pharmacology & Toxicology Indiana University School of Medicine, Gary, IN . Host: SP Sivan.
- 2005-06-07 “Electrophysiological correlates of addiction liability”. Rudolf Magnus Institute of Neuroscience, University Medical Center, Utrecht, The Netherlands. Host: GM Ramakers.
- 2005-04-27 “Stress-induced plasticity of midbrain dopamine neurons: implications for addiction liability”. Behavioral & Neuroscience Dept. NIDA/IRP/NIH, Baltimore, MD. Host: Y Shaham.
- 2005-02-18 “Activity of dopamine neurons signals vulnerability for cocaine addiction”. Dept. Pharmacology & Toxicology, University of Texas Medical Branch, Galveston, TX. Host: KA Cunningham.
- 2004-06-10 “Impulse activity of midbrain dopamine neurons: a marker for cocaine addiction?”. The Vollum Institute, Portland, OR. Host: JT Williams
- 2003-02-28 “Tracking addiction through impulse activity of dopamine cells”. Dept. Anesthesia & Critical Care. The University of Chicago, Chicago, IL. (Job talk) Hosts: J Moss and J Apfelbaum.
- 2002-01-08 “Dopamine cell activity and vulnerability to cocaine self-administration”. Advanced Issues in Behavioural Neuroscience, Swiss Federal Institute of Technology (ETH), Schwerzenbach, Zurich, Switzerland. Hosts: J Feldon and A Jongen-Rêlo.
- 2002-12-16 “What factors may lead to addiction? A systems approach using cellular and behavioral analyses”. Dept. Anesthesia & Critical Care. The University of Chicago, Chicago, IL. (Job talk) Hosts: J Moss and J Apfelbaum.
- 2002-11-25 “What factors may lead to addiction? A systems approach using cellular and behavioral analyses”. Dept. Cellular & Molecular Pharmacology. FUHS/The Chicago Medical School, North Chicago, IL. Host: FJ White.
- 2001-07-06 “A global approach to the study of biological bases of vulnerability to drugs”. Doctoral School of Neuroscience, University of Siena, Siena, Italy. Host: A Tagliamonte.
- 2001-05-16 “Corrélations électrophysiologiques de la vulnérabilité aux drogues” (Electrophysiological correlates of vulnerability to drugs of abuse). Institut François Magendie, Bordeaux, France. Host: C Mulle.
- 2001-04-23 “Predisposition of midbrain dopamine neurons to cocaine addiction: electrophysiological and behavioral studies in rodents”. Behavioral & Neuroscience Dept. NIDA/IRP/NIH, Baltimore, MD. Host: Y Shaham.
- 2001-01-11 “Electrophysiological differences in midbrain dopamine neurons that underlie vulnerability to cocaine addiction”. Dept. Psychiatry, UT Southwestern University, Dallas, TX. Host: EJ Nestler.
- 2000-10-11 “Traits and states that influence cocaine addiction: electrophysiological and behavioral studies in rodent models”. Dept. Cellular & Molecular Pharmacology, FUHS/The Chicago Medical School, North Chicago, IL. Host: FJ White.
- 2000-10-04 “Traits and states that influence vulnerability to drug addiction: electrophysiological and behavioral studies”. Dept. Psychiatry, University of Chicago, Chicago, IL. Host: H DeWit.
- 1997-03-13 “Role of glucocorticoids hormones in the behavioral and dopaminergic effects of drugs of abuse”. Dept. Neuroscience, FUHS/ Chicago Medical School, North Chicago, IL. Host: FJ White.

## **Service**

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### **Service to the scientific community**

- 2023-now Board member for “Women in Neuroscience”. The foundation helps first-time college students, or students who faced adversities (both male and female) to pursue studies and careers in neuroscience.
- 2022-now Member of the PAIMI council in Texas (PAIMI: Protection and Advocacy for Individuals with Mental Illness). Under the PAIMI program, protection and advocacy agencies like Disability Rights Texas are authorized to investigate abuse and neglect and rights violations in all public and private facilities and community settings, including hospitals, nursing facilities and group homes – and to oversee the effectiveness of state agencies that license and regulate these programs.
- 2015-2021 Member of the board of Scientific Counselors for the National Institute of Drug Abuse (NIDA)/NIH
- Served on 30 grant review sessions for: NIH, Texas Education Agency, Department of Defense, Natural Sciences and Engineering Research Council of Canada, Neurological Foundation of New Zealand, and University-sponsored grants.
  - Associate editor for *Frontiers in Neuroscience* (current), and *European Journal of Neuroscience* (past).
  - Reviewer of 5-24 manuscripts per year, according to the year, for different peer-reviewed scientific journals including *Biological Psychiatry*, *European Journal of Neuroscience*, *Frontiers in Addiction Research*, *JAMA network*, *Neuropsychopharmacology*, *Neuron*, *Neuroscience*, *Neuroscience & Biobehavioral Reviews*, *Proceedings of the National Academy of Sciences*, *Psychopharmacology*, *Synapse*, *Journal of Neurophysiology*, *Journal of Neuroscience*.

### **Service to societies or organizations**

- 2017-2023 Councilor, European Behavioural Pharmacology Society (EBPS)
- 2013-2020 Monthly participant in “Austin Humanists at Work”, providing needed goods to persons experiencing homelessness in the Austin community (set up tables and assembly line serving our patrons, organized distribution of goods and food, interacted with patrons)
- 2006-2008 Secretary of the Chicago Chapter of the Society for Neuroscience (SfN).
- 2005-2007 Organizer, with Dr. Celeste T. Napier, of “Chicago Dopamine & Friends”, designed to promote interactions amongst Chicago-land scientists who are interested on the topic of “dopamine”.
- 2004-2006 Councilor for the Great Lakes Chapter of the American Society for Pharmacology and Experimental Therapeutics (ASPET).
- 2006 Chair of the Psychopharmacology Social, Society for Neuroscience meeting, Atlanta, GA

### **Service to UT Austin (selected items only)**

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#### **University or College-level**

- 2024-now Member of the teaching awards committee for the College of Natural Sciences and for the Department of Neuroscience
- 2014-2017 Member of the Financial Aid Committee for the College of Pharmacy
- 2015-2017 Member of the Academic Support Committee for the College of Pharmacy
- 2014-2015 Chair of Workgroup “Graduate and postdoctoral education/training” for the College of Pharmacy’s Strategic Plan

## **Department-level**

2022-now	Member of the Departmental Academics Affairs Committee for the Department of Neurology
2018-2023	Reviewer of annual Faculty Annual Report "FAR" for Neuroscience (member of committee 2018-2023 & chair of committee 2019, 2020, 2022, 2023)
2019-now	Member (2019-now) or chair (2022, 2023) of committees for 6-year review and mid-term probationary review for different faculty members for the Department of Neuroscience
2020-2023	Member of search committees for 5 tenure-track faculty, 1 teaching-track faculty, and 1 lab-teaching faculty
2015-2017	Member of the Graduate Studies Admissions Committee (Pharmacology & Toxicology, College of Pharmacy)

## **Funding – Grants**

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### **Active**

2026	Minnesota Disability Law Center research grant "The Effects of School Seclusion on Children with Disabilities", \$25,000 direct costs. Role: Co-PI (07-01-2026-12-31-2026),
2025-2027	NIH/NIDA (R03DA062825) "Age and sex-differences in reward responding after punishment", \$100,000 direct costs. Role: PI (07/01/2025-06/30/2027).

### **Completed**

2017-2025	NIH/NIDA (R01DA042206) "The lateral preoptic area: a novel regulator of VTA activity and cocaine seeking", \$1,187,500 direct costs. Role: PI (08/01/2017-07/31/2022 no cost extension to 07/31/2025)
2018-2023	DoD (PR171296) "Protein Kinase C Epsilon Inhibitors to Treat Pain", \$1,104,861 direct costs. Role: Co-I (PI: R.O. Messing and J. Levine), (08/09/2018-08/31/2021, no cost extension 08/21/2023)
2017-2020	NIH/NIDA (R03 DA044562) "Crossing an electric barrier to obtain cocaine: age and sex difference", \$100,000 direct costs. Role: PI (08/15/2018-07/31/2019, no cost extension to 07/31/2020)
2014-2017	NIH/NIDA (1R01 DA036978) "Cellular basis of nicotine-induced aversion", \$420,000 direct costs. Role: Co-I (PI: D.S. McGehee) (04/01/14 - 03/31/19, my portion until 03/31/17)
2012-2016	NIH/NIDA (R21DA031916) "Risk of cocaine addiction after methylphenidate plus SSRI combination treatment", \$275,000 direct costs. Role: PI (05/01/12 - 04/30/14, no cost extension 04/30/16)
2011-2014	NIH/NIDA (1R21 DA031577) "Afferents modulating VTA activity and their plasticity after self-administration", \$250,000 direct costs. Role: PI (06/01/11 - 05/31/13, no cost extension 05/31/14)
2011-2013	Seed grant (Brain Research Foundation) "Habenular modulation of dopamine neurons and its relevance for cocaine addiction", \$40,000 direct costs. Role: PI (10/01/11-09/30/12, no cost extension to 8/31/13)
2006-2012	NIH/NIDA grant (5R01 DA020654) "Adolescent cocaine abuse: electrophysiology & behavior", ~\$975,000 direct costs. Role: PI (07/01/2006-06/30/2011, no cost extension to 06/30/2012)
2009-2011	NIH/NIDA competitive revision application (3R01 DA020654-04S1), part of the American Recovery and Reinvestment Act of 2009, \$250,000 direct costs. Role: PI (09/30/2009-09/29/2011)
2009	NIH/NIDA student supplement (3R01 DA020654-03S1), part of the American Recovery and Reinvestment Act of 2009, \$8,193 direct costs. Role: PI (6/15/09-8/31/09)
2005-2006	Pilot research Grant from the RFUMS/Chicago Medical School (1 year), \$ 25,000 direct costs. Role: PI
2001-2002	MILDT research grant (Mission Interministérielle de Lutte contre la Drogue et la Toxicomanie; Inter-ministerial Mission Fighting against Drug and Addiction), Paris, France. Role: Co-PI, with P.V. Piazza, 60,000 euros direct costs.
1999-2001	Young Investigator Award Grant from the National Alliance for Research on Schizophrenia and Depression (NARSAD), \$ 60,000. Role: PI

- 1997 Post-doctoral fellowship from the “Société de Secours des Amis des Sciences” (Society Aiding the Friends of Science), Paris, France.
- 1996 Post-doctoral fellowship from the “Fondation pour la Recherche Médicale” (Foundation for Medical Research), Paris, France. Note: Pharmacy degree in Italy allowed obtaining “post-doctoral” fellowship in France.
- 1992-1995 Doctoral scholarship from the Ministry of Scientific Research, Italy.
- Mar-May 1994 International research fellowship from the European Science Foundation, Strasbourg, France.
- Jan-Jul 1993 Scholarship from the International research fellowship from the CNR (Consiglio Nazionale delle Ricerche; National Council on Research), Rome, Italy.
- 1991-1992 Doctoral fellowship from the pharmaceutical industry Sigma Tau, Rome, Italy.

## **Publications**

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### **Peer-reviewed publications**

*Google Scholar h-index: 44 and cited 10,000 times (Google Scholar). Relative Citation Ratio: 3.09 (cited 3x more than average scholar in my field). In the list below, (n) = times cited (as of May 2026, from Web of Science).*

1. Catalani A, Marinelli M, Scaccianoce S, Nicolai R, Muscolo LAA, Korányi L, Piazza PV, Angelucci L. Progeny of mothers drinking corticosterone during lactation has lower stress-induced corticosterone secretion and better cognitive performance. *Brain Res* (1993) 624:209-215. (117)
2. Marinelli M, Piazza PV, Deroche V, Maccari S, Le Moal M, Simon H. Corticosterone circadian secretion differentially facilitates dopamine-mediated psychomotor effect of cocaine and morphine. *J Neurosci* (1994) 14:2724-2731. (116)
3. Jodogne C, Marinelli M, Le Moal M, Piazza PV. Animals predisposed to develop amphetamine self-administration show higher susceptibility to develop contextual conditioning of both amphetamine-induced hyperlocomotion and sensitization. *Brain Res* (1994) 657:236-244. (60)
4. Piazza PV, Marinelli M, Jodogne C, Deroche V, Rougé-Pont F, Maccari S, Le Moal M, Simon H. Inhibition of corticosterone synthesis by metyrapone decreases cocaine-induced locomotion and relapse of cocaine self-administration. *Brain Res* (1994) 658:259-264. (147)
5. Deroche V, Marinelli M, Maccari S, Le Moal M, Simon H, Piazza PV. Stress-induced sensitization and glucocorticoids. I Sensitization of dopamine-dependent locomotor effects of amphetamine and morphine depends on stress-induced corticosterone secretion. *J Neurosci* (1995) 15:7181-7188. (223)
6. Rougé-Pont F, Marinelli M, Le Moal M, Simon H, Piazza PV. Stress-induced sensitization and glucocorticoids. II Sensitization of the increase in extracellular dopamine induced by cocaine depends on stress-induced corticosterone secretion. *J Neurosci* (1995) 15:7189-7195. (176)
7. Marinelli M, Le Moal M, Piazza PV. Acute pharmacological blockade of corticosterone secretion reverses food restriction-induced sensitization of the locomotor response to cocaine. *Brain Res* (1996) 724:251-255. (61)
8. Piazza PV, Barrot M, Rougé-Pont F, Marinelli M, Maccari S, Abrous N, Simon H, Le Moal M. Suppression of glucocorticoid secretion and antipsychotic drugs have similar effects on the mesolimbic dopaminergic transmission. *Proc Natl Acad Sci USA* (1996) 93:15445-15450. (108)
9. Marinelli M, Rougé-Pont F, De Jésus Oliveira C, Le Moal M, Piazza PV. Acute blockade of corticosterone secretion decreases the psychomotor stimulant effects of cocaine. *Neuropsychopharmacology* (1997) 16:156-161. (59)
10. Marinelli M, Rougé-Pont F, Deroche V, Barrot M, De Jésus Oliveira C, Le Moal M, Piazza PV. Glucocorticoids & behavioral effects of psychostimulants I: Locomotor response to cocaine depends on basal levels of glucocorticoids. *J Pharm Exp Ther* (1997) 281:1392-1400. (74)

11. Deroche V, Marinelli M, Le Moal M, Piazza PV. Glucocorticoids & behavioral effects of psychostimulants II: Cocaine intravenous self-administration and reinstatement depend on glucocorticoid levels. *J Pharm Exp Ther* (1997) 281:1401-1407. (158)
12. Marinelli M, Aouizerate B, Barrot M, Le Moal M, Piazza PV. Dopamine-dependent responses to morphine depend on glucocorticoid receptors. *Proc Natl Acad Sci USA* (1998) 95: 7742-7747. (101)
13. Marinelli M, Le Moal M, Piazza PV. Sensitization to the motor effects of contingent infusions of heroin but not of  $\mu$  agonist RU 51599. *Psychopharmacology* (1998) 139:281-285. (22)
14. Marinelli M, Barrot M, Simon H, Oberlander C, Dekeyne A, Le Moal M, Piazza PV. Pharmacological stimuli decreasing nucleus accumbens dopamine can act as positive reinforcers but have a low addictive potential. *Eur J Neurosci* (1998) 10:3269-3275. (34)
15. Rodriguez JJ, Montaron MF, Petry KG, Arrousseau C, Marinelli M, Premier S, Rougon G, Le Moal M, Abrous DN. Complex regulation of the expression of the polysialylated form of the neuronal cell adhesion molecule by glucocorticoids in the rat hippocampus. *Eur J Neurosci* (1998) 10:2994-3006. (83)
16. Montaron MF, Petry KG, Rodriguez JJ, Marinelli M, Arousseau C, Rougon G, Le Moal M, Abrous DN. Adrenalectomy increases neurogenesis but not PSA-NCAM expression in aged dentate gyrus. *Eur J Neurosci* (1999) 11:1479-1485. (111)
17. Barrot M, Marinelli M, Abrous DN, Rougé-Pont F, Le Moal M, Piazza PV. Functional heterogeneity in dopamine release and in the expression of Fos-like proteins within the rat striatal complex. *Eur J Neurosci* (1999) 11:1155-1166. (67)
18. Barrot M, Marinelli M, Abrous DN, Rougé-Pont F, Le Moal M, Piazza PV. The dopaminergic hyper-responsiveness of the shell of the nucleus accumbens is hormone-dependent. *Eur J Neurosci* (2000) 12: 973-979. (168)
19. Marinelli M, White FJ. Enhanced vulnerability to cocaine self-administration is associated with elevated impulse activity of midbrain dopamine neurons. *J Neurosci* (2000) 20:8876-8885. (218)
20. Barrot M, Abrous DN, Marinelli M, Rougé-Pont F, Le Moal M, Piazza PV. Influence of glucocorticoids on dopaminergic transmission in the rat dorsolateral striatum. *Eur J Neurosci* (2001) 13:812-818. (49)
21. Brandon CL, Marinelli M, Baker LK, White FJ. Enhanced reactivity and vulnerability to cocaine following methylphenidate treatment in adolescent rats. *Neuropsychopharmacology* (2001) 25:651-661. (212)
22. Lu W, Marinelli M, Xu D, Worley PR, Wolf ME. Amphetamine and cocaine do not increase Narp expression in rat ventral tegmental area, nucleus accumbens or prefrontal cortex, but Narp may contribute to individual differences in responding to a novel environment. *Eur J Neurosci* (2002) 15:2027-2036. (16)
23. Rougé-Pont F, Mayo W, Marinelli M, Gingras M, Le Moal M, Piazza PV. The neurosteroid allopregnanolone increases dopamine release and dopaminergic response to morphine in the rat nucleus accumbens. *Eur J Neurosci* (2002) 16:169-173. (87)
24. Marinelli M, Piazza PV. Interaction between glucocorticoid hormones stress and psychostimulant drugs. *Eur J Neurosci* (2002) 16:387-394. (336)
25. Shalev U, Marinelli M, Baumann MN, Piazza PV, Shaham Y. The role of corticosterone in food deprivation-induced reinstatement of cocaine seeking. *Psychopharmacology* (2003) 168:170-176. (102)
26. Marinelli M, Cooper DC, Baker L, White FJ. Impulse activity of midbrain dopamine neurons modulates drug-seeking behavior. *Psychopharmacology* (2003) 168:84-98. (83)
27. Brandon CL, Marinelli M, White FJ. Adolescent exposure to methylphenidate alters the activity of rat midbrain dopamine neurons. *Biol Psych* (2003) 54:1338-1344. (84)
28. Mathon DS, Ramakers GM, Pintar JE, Marinelli M. Decreased firing frequency of midbrain dopamine neurons in mice lacking mu opioid receptors. *Eur J Neurosci* (2005) 21:2883-2886. (14)
29. Marinelli M, The many facets of the locomotor response to a novel environment test: Theoretical comment on Mitchell et al. (2005). *Behav Neurosci* (2005) 119:1144-1151. (Commentary) (28)

30. Marinelli M, Rudick CN, Hu X-T, White FJ. Excitability of dopamine neurons: modulation and physiological consequences. *CNS Neuro Disord Drug Targets* (2006) 5:79-97. (123)
31. Cagniard B, Beeler JA, Britt JP, McGehee DS, Marinelli M, Zhuang X. Dopamine scales performance in the absence of new learning. *Neuron* (2006) 51:541-547. (101)
32. Hommel JD, Trinko R, Sears RM, Georgescu D, Liu ZW, Gao XB, Thurmon JJ, Marinelli M, DiLeone RJ. Leptin receptor signaling in midbrain dopamine neurons regulates feeding. *Neuron* (2006) 51:801-810. (732)
33. Conrad KL, Tseng KY, Uejima JL, Reimers JM, Heng L-J, Shaham Y, Marinelli M, Wolf ME. Formation of accumbens GluR2-lacking AMPA receptors mediates incubation of cocaine craving. *Nature* (2008) 454:118-121. (721)
34. Geisler S, Marinelli M, DeGarmo B, Becker ML, Freiman AJ, Beales M., Meredith GE, Zahm DS. Prominent activation of brainstem and pallidal afferents of the ventral tegmental area by cocaine. *Neuropsychopharmacology* (2008) 33:2688-2670. (69)
35. Jhou TC, Geisler S, Marinelli M, DeGarmo BA, Zahm DS. The mesopontine rostromedial tegmental nucleus: a structure targeted by the lateral habenula that projects to the ventral tegmental area of tsai and substantia nigra compacta. *J Comp Neurol* (2009) 513:566-596. (381)
36. Ambroggi F, Turiault M, Milet A, Deroche-Gamonet V, Parnaudeau S, Balado E, Barik J, van der Veen R, Maroteaux G, Lemberger T, Schütz G, Lazar M, Marinelli M, Piazza PV, Tronche F. Stress and addiction: glucocorticoid receptor in dopaminergic neurons facilitates cocaine seeking. *Nat Neurosci* (2009) 12:247-249. (139)
37. McCutcheon JE, Marinelli M. Age matters. *Eur J Neurosci* (2009) 29:997-1014. (247)
38. McCutcheon JE, White FJ, Marinelli M. Individual differences in dopamine cell neuroadaptations following cocaine self-administration. *Biol Psych* (2009) 66:801-803. (25)
39. Melis M, Diana M, Enrico P, Marinelli M, Brodie MS. Ethanol and acetaldehyde action on central dopamine systems: mechanisms, modulation, and relationship to stress. *Alcohol* (2009) 43:531-539. (49)
40. Zahm DS, Becker ML, Freiman AJ, Strauch S, Geisler S, Meredith GE, Marinelli M. Fos after single and repeated self-administration of cocaine and saline in the rat: emphasis on the basal forebrain and recalibration of expression. *Neuropsychopharmacology* (2010) 35:445-463. (66)
41. Steiner H, Van Waes V, Marinelli M. Fluoxetine potentiates methylphenidate-induced gene regulation in addiction-related brain regions: Concerns for use of cognitive enhancers? *Biol Psych* (2010) 67:592-594. (28)
42. Conrad KL, Ford KE, Marinelli M, Wolf ME. Dopamine receptor expression and distribution dynamically change in the rat nucleus accumbens after withdrawal from cocaine self-administration. *Neuroscience* (2010) 169:182-194. (71)
43. Conrad KL, McCutcheon JE, Cotterly LM, Ford KA, Beales M, Marinelli M. Persistent increases in cocaine-seeking behavior after acute exposure to cold swim stress. *Biol Psych* (2010) 68:303-305. (37)
44. Van Waes V, Beverley J, Marinelli M, Steiner H. Selective serotonin reuptake inhibitor antidepressants potentiate methylphenidate (Ritalin)-induced gene regulation in the adolescent striatum. *Eur J Neurosci* (2010) 32:435-447. (33)
45. McCutcheon JE, Wang X, Tseng KY, Wolf ME, Marinelli M. Calcium-permeable AMPA receptors are present in nucleus accumbens synapses after prolonged withdrawal from cocaine self-administration but not experimenter-administered cocaine. *J Neurosci* (2011) 31:5737-5743. (153)
46. McCutcheon JE, Loweth JA, Ford KA, Marinelli M, Wolf ME, Tseng KY. Group I mGluR activation reverses cocaine-induced accumulation of calcium-permeable AMPA receptors in nucleus accumbens synapses via a protein kinase C-dependent mechanism. *J Neurosci* (2011) 31:14536-14541. (114)
47. McCutcheon JE, Conrad KL, Carr SB, Ford KA, McGehee DS, Marinelli M. Dopamine neurons in the ventral tegmental area fire faster in adolescent rats than in adults. *J Neurophysiol* (2012) 108:1620-1630. (97)
48. Wong WC, Ford KA, Pagels NE, McCutcheon JE, Marinelli M. Adolescents are more vulnerable to cocaine addiction: behavioral and electrophysiological evidence. *J Neurosci* (2013) 33:4913-4922. (76)

49. Wang X, Cahill ME, Werner C, Christoffel D, Golden S, Xie Z, Loweth J, Marinelli M, Russo S, Penzes P, Wolf ME. Kalirin-7 mediates cocaine-induced AMPA receptor and spine plasticity, enabling incentive sensitization. *J Neurosci* (2013) 33:11012-11022. (41)
50. Marinelli M, McCutcheon JE. Heterogeneity of dopamine neuron activity across traits and states. *Neurosci* (2014) 282:176-197. (114)
51. Wong WC, Marinelli M. Adolescent-onset of cocaine use is associated with heightened stress-induced reinstatement of cocaine seeking. *Addiction Biol* (2016) 21:634-645. (19)
52. Hankosky ER, Westbrook SR, Haake RM, Marinelli M, Gulley JM. Reduced sensitivity to reinforcement in adolescent compared to adult Sprague-Dawley rats of both sexes. *Psychopharmacology* (2018) 235:861-871. (14)
53. Gordon-Fennell AG, Will RG, Ramachandra V, Gordon-Fennell LJ, Dominguez JM, Zahm DS, Marinelli M. The lateral preoptic area: a novel regulator of reward seeking and neuronal activity in the ventral tegmental area. *Front Neurosci* (2020) 13:1-17. (20)
54. Gordon-Fennell AG, Gordon-Fennel LJ, Marinelli M. The lateral preoptic area and its projection to the ventral tegmental area regulate the activity of neurons in the ventral tegmental area and drive paradoxical reward behaviors. *Front Syst Neurosci* (2020) 14:1-71. (9)
55. Pomrenze MB, Marinelli M. Love it or leave it: differential modulation of incentive motivation by CRF neurons. *Biol Psych* (2021) 89:1113-1115. (0)
57. Lamoureux L, Beverley JA, Marinelli M, Steiner H. Fluoxetine potentiates methylphenidate-induced behavioral responses: enhanced locomotion or stereotypies and facilitated acquisition of cocaine self-administration. *Addiction Neuroscience* (2023) 9:100131. (3)
58. Lamoureux L, Beverley JA, Steiner H, Marinelli M. Methylphenidate with or without fluoxetine triggers reinstatement of cocaine seeking behavior in rats *Neuropsychopharmacology* (2024) 49:953-960 (3)
59. Gregory-Flores A, Bonet IJ, Desai S, Levine J, McHardy S, Kraker H, Clanton NA, Lococo PM, Russell N, Fleischer C, Messing RO, Marinelli M. A novel small molecule PKC epsilon inhibitor reduces hyperalgesia induced by paclitaxel or opioid withdrawal. *Journal of Clinical Investigation Insight* (2025) 10(8):e186805. (2)

### ***Book Chapters & Research Monographs***

60. Piazza PV, Marinelli M, Rougé-Pont F, Deroche V, Maccari S, Simon H, Le Moal M. Stress, glucocorticoids and mesencephalic dopaminergic neurons: a pathophysiological chain determining vulnerability to psychostimulant abuse. *NIDA Monogr Rev* (1996) 163: 277-299.
61. Marinelli M, Cooper DC, White FJ. Electrophysiological correlates of enhanced vulnerability to cocaine self-administration. In: Phenotypic differences in drug effects related to behavioral traits versus states. *NIDA Monogr Rev* (2001) 181:46-48.
62. Marinelli M, Piazza PV. Influence of hormonal and environmental factors in the sensitivity to psychostimulants. In: *Molecular basis of drug addiction*. R. Maldonado (Ed). Humana Press Inc., Totowa, NJ (2003) pp. 133-159.
63. Marinelli M, Piazza PV. Glucocorticoid hormones, individual differences, and behavioral and dopaminergic responses to psychostimulant drugs. In: *Handbook on stress and the Brain*. T Steckler, NH Kalin, JMHM Reul (Eds). Elsevier Science, Amsterdam, The Netherlands (2005) Vol 15, pp. 89-111.
64. Marinelli M. Dopaminergic reward pathways and effects of stress. In: *Stress and Addiction: Biological and Psychological Mechanisms*. M al'Absi (Ed). Elsevier Science, Amsterdam, The Netherlands (2007) pp. 41-83.
65. Marinelli M. Dopamine. In: Gellman, M.D. (Es). *Encyclopedia of Behavioral Medicine*. Springer, Cham. pp. 699-700.

### ***Papers presented at scientific meetings and published abstracts***

Presented research in poster-form 111 times at national and international meetings (list available upon request).