

Employment – Current:

- Online Instructor – CCCOnline, 2021-current
Anatomy and Physiology
- Adjunct Professor – Community College of Denver, 2019-current
Anatomy and Physiology (Accelerated Bio 201/202, Bio 2102, 2101)
- Instructor Human Cadaver Workshop – Red Rocks Community College, 2018-current
Demonstration, Instruction, Prosection
- Adjunct Professor – Red Rocks Community College, 2017-current
Physiology and Pathophysiology (PAS605, PAS508, PAS6021, PAS6047, PAS6472), team taught for Physician Assistants
- Adjunct Professor – Front Range Community, 2015-current
Anatomy and Physiology (In person: Bio 2101, Bio 2102, Bio 1111, and Bio 106; Online or Hybrid: Bio2101, Bio 2102, Bio 1004, Bio 1111)

Education/Employment – Previous:

- Assistant Professor – National American University, 2015-2019
Anatomy and Physiology (1 and 2), Human Movement in Occupation, Online Independent Study
- Adjunct Professor – Central Wyoming College, 2014-2015
Anatomy and Physiology, Biology
- Account Manager – Carl Zeiss Microscopy, 2012-2013
Biosciences
- Staff Scientist Vanderbilt University School of Medicine, 2010-2012
Division of Clinical Pharmacology
- Postdoc Vanderbilt University School of Medicine, 2003-2010
Division of Clinical Pharmacology
Atrial Remodeling in cultured cardiomyocytes, canine and human atrial tissue
- PhD University of Colorado at Boulder - 2003
Integrative Physiology – Cellular Cardiac Physiology, *Mentor: Russell L. Moore, PhD*
- MS University of Colorado at Boulder - 1998
Kinesiology and Applied Physiology – Cellular Cardiac Physiology
- BA Regis University, Denver, Colorado - 1995
Graduated with High Honors, Physiology/Ex. Science

Fellowships/Grants/Awards:

- OER Grant - Comparison of different current OER's for suitability in Bio202 classes at FRCC – Anita Miller (Lead)
- NIH/National Center for Research Resources/Vanderbilt Institute for Clinical and Translational Research (Principal Investigator), 2008-10 (*translational/clinical research, investigator training, research optimization, regulatory compliance, patient safety, pilot studies, innovation in research methodology*)
- Environmental Toxicology Training Grant - Vanderbilt Univ Center for Molecular Toxicology 2008–09
- American Heart Association Postdoctoral Fellowship, Mace (Principal Investigator, 0625270B) 2006-08
- Cardiovascular Pharmacology Training Grant-Vanderbilt Univ., Department Pharmacology, 2004–06
- Clinical Pharmacology Fellow Teaching Award - Vanderbilt Univ School of Medicine, 2006
- Dean’s Graduate Fellow, University of Colorado at Boulder, 1999-00
- Summa Cum Laude, Regis University, 1995
- Dean’s List, Regis University, 1993-95

Professional Development and Training - Scientific:

- UCSD NIH/NIGMS Summer Course: Pharmacology and Translational Biology, 2006 Laurence L. Brunton, PhD
- Research Assistant, Univ of Colorado at Boulder, Cellular Cardiac Physiology Laboratory, 1996-99
Principle Investigatory and Professor: Russell L. Moore, PhD
- Editorial Assistant, American Physiological Society, Journal of Applied Physiology, 1998-99
Editors: Russell L. Moore and Douglas R. Seals

Professional Development and Training - Teaching:

- Active Learning Institute, Fall 2022
- Hacking D2L: Tips, Tricks and Cool Tools in D2L to be More Efficient and get the Most of LMS Training, Red Rocks Community College, Spring 2021
- Essentials of Online Learning, Front Range Community College, Spring 2020
- Instructor Residency Program (IRP), Community College of Denver, Fall 2019-2020
Topics: Equity and inclusion, teaching philosophy (approximately 15 hrs over 1 semester)
- Colorado Learning and Teaching with Technology Conference, August 2019 workshops
OER for the Long Haul
High Quality OER for Online : Where to Start, What to Consider
Using Video to make you Case Studies Leap off the Page
Video and Active Learning for Better Engagement and Course Outcomes
Video killed the Radio Star, but Saved Online Instructors
Exposed: The Truth about Lecture Capture
Innovation for a Equitable Future
Adaptive Courseware Transforming Learning to Improve Student Success
Eliminating Gender Bias in Large First Year Courses
- Intercultural Competence I, II and III, Red Rocks Community College, 2019-2020
- Active Learning Workshop, 2018
- Mental Health First Aid USA Certification, National Council for Behavioral Health, 2018
- Accessibility 101: Red Rocks Community College, 2017
- Hybrid and Online Learning, Front Range Community College, 2017
- Teaching with Purpose: Front Range Community College, 2017
- Teaching with the SMART Board – Front Range Community College - 2016, 2017
- Teaching Portfolio as a Tool for Success – Front Range Community College - 2016
- Active Learning in the Flipped Classroom – Front Range Community College - 2016
- D2L: Gradebook – Front Range Community College - Front Range Community College - 2016
- Bullying Prevention for Higher Education Faculty – Front Range Community College – 2016
- Diversity Benefits for Higher Education - Front Range Community College – 2016
- Preventing Discrimination and Sexual Violence: Title IX, VAWA, and Clery Act for Faculty and Staff – Front Range Community College, 2016 - 2021
- Assessapaloosa – 2015
How to make time for Active Learning
Enhancing Student Preparation using Interactive Video
Rubrics for Writing Assessment
- Technology in Education Conference – Carrol College, Helena MT - 2014

Service:

- Foundation Scholarship Reviewer – 2018-2020
- Admission Selection Committee - National American University, 2016
- Program Advisory Committee – National American University, 2016
- Nashville Metro School District (High School Level), American Heart Association/Vanderbilt University Science - Outreach - Cardiovascular anatomy, physiology, health issues, 2004-10
- Internal Departmental Program Review Committee, 2003
- Division of Continuing Education, University of Colorado at Boulder
- External Departmental Review Council - Graduate Student Departmental Representative, 2000
- External Review - University of Colorado, Boulder, Department of Kinesiology and Applied Physiology 2000

Notable Scientific Presentations (additional presentations on request):

- *“Molecular determinants of remodeling rapidly stimulated atrial myocytes”* American Heart Association Greater Southeast Affiliate Leadership Summit, St Petersburg, FL, 2008
- Grand Rounds Clinical Pharmacology, Vanderbilt Univ. School of Medicine, yearly 2006-08
- Ion Channel Seminar, Vanderbilt Univ. School of Medicine, *“Molecular determinants of atrial myocyte remodeling”* twice yearly 2005-06

Additional Teaching:

- **Open Laboratory Tutor** - Front Range Community College, Anatomy and Physiology (Bio201, Bio202), 2015-2021
- **English Language Tutor** - Taught English composition in ESL format for Russian high school students, 2009-2010
- **Outreach Instructor** - Taught cardiovascular anatomy, physiology and relevant health issues by lecture and human heart lab experience, American Heart Association/Vanderbilt University Science Outreach, 2004-2010
- **Teaching Assistant** - Department of Kinesiology and Applied Physiology, Univ. of Colorado at Boulder, Biomechanics, Scientific Writing, Exercise Physiology, Colloquium for Kinesiology, 1999-01
- **Mentor** - Discovery Channel Young Scientist Challenge 2007 Finalist - Shalom Rottman-Yang, Project question: *“Do heart cells meet energy demands by increasing mitochondria?”*
- **Research Assistant** Cellular Cardiac Physiology Lab, Univ. of Colorado at Boulder - Taught basic laboratory techniques, animal care and treadmill training, cardiomyocyte isolation, patch clamping and fluorescence microscopy techniques to undergraduates, graduate students and fellows, 1999-01

Publications:

Sidorova TN*, LV Yermalitskaya, **LC. Mace***, KS Wells, SS Davies, LJ Roberts, SI Dikalov, CG Glabe, V Amarnath, JV Barnett, and KT Murray. Reactive γ -Ketoaldehydes Promote Protein Misfolding and Preamyloid Oligomer Formation in Rapidly-Activated Atrial Cells. *J Mol and Cell Cardiol.* 79: 295-302, 2015.

Sidorova TN*, **LC Mace***, KS Wells, LV Yermalitskaya, Pei-Fang Su, Y Shyr, JB. Atkinson, AB. Fogo, JK Prinson, JG. Byrne, MR Petracek, JP Greelish, SJ Hoff, SK Ball, CG Glabe, NJ Brown, JV Barnett, and KT Murray. Hypertension is Associated with Preamyloid Oligomers in Human Atrium: A Missing Link in Atrial Pathology? *J Am Coll Cardiol* 65: 2014.

Sidorova TN*, **LC Mace***, Wells KS, Yermalitskaya LV, Su PF, Shyr Y, Byrne JG, Petracek MR, Greelish JP, Hoff SJ, Ball SK, Glabe CG, Brown NJ, Barnett JB, and Murray KT. Quantitative Imaging of Preamyloid Oligomers, a Novel Structural Abnormality, in Human Atrial Samples. *J Histochem Cytochem*, 62: 479-487, 2014.

Murray KT and **LC Mace**. Preventing Atrial Fibrillation: More Evidence to Turn Up the Heat, *J Cardiovasc Electr*, August 30, 2010.

Mace LC, LV Yermalitskaya, Y Yi, A Morgan, Z Yang and KT Murray. Transcriptional remodeling of rapidly-stimulated HL-1 atrial myocytes exhibits concordance with human atrial fibrillation. *J Mol and Cell Cardiol.* 47(4): 485-92, 2009.

Murray KT, **LC Mace** and Z Yang. Nonantiarrhythmic drug therapy for atrial fibrillation. *Heart Rhythm* 4, S88-90, 2007.

Reis J, L Zhang, S Cala, KN Jew, **LC Mace**, L Chung, RL Moore, YC Ng. Expression of phospholemman and its association with Na⁺,K⁺-ATPase in skeletal muscle: effects of aging and exercise training. *J Appl Physiol.* 99, 1508-1515, 2005.

Mace LC, BM Palmer, DA Brown, KN Jew, JM Lynch, JM Glunt, TA Parsons and RL Moore. Influence of age and run training on cardiac Na⁺/Ca²⁺ exchange. *J Appl Physiol* 95: 1994-2003, 2003.

Ng YC, M Nagarajan, KN Jew, **LC Mace**, and RL Moore. Exercise training differentially modifies age-associated alteration in expression of Na⁺-K⁺-ATPase subunit isoforms in rat skeletal muscles. *Am J Physiol.* 285 (*Regul Integr Comp Physiol*): R733-R740, 2003.

Palmer BM, MC Olsson, JM Lynch, **LC Mace**, SM Snyder, S Valent, and RL Moore. Chronic run training suppresses β -adrenergic response of rat cardiomyocytes and isovolumic left ventricle. *Am J Physiol* 277 (*Heart Circ Physiol*): H2136-H2144, 1999.

Abstract - Oral:

Mace LC, Y Yi, X Hu, Z Yang and KT Murray. Transcriptional profile of rapidly-stimulated atrial myocytes: Conservation with human atrial fibrillation. *Circulation* 114 (8):II-236, 2006.

Abstracts - Posters:

Sidorova TN, **LC Mace**, LV Yermalitskaya, S Davies, LJ Roberts, CC Glabe, JV Barnett, and KT Murray. Reactive β -Ketoaldehyde Products of Lipid Peroxidation Promote Protein Misfolding and Preamyloid Oligomer Formation in Experimental Atrial Fibrillation, *Circulation* 2013, 128, A13925.

Mace LC, LV Yermalitskaya, MR Petracek, JP Greelish, SJ Hoff, SK Ball, KS Wells, CG Glabe, CA Meisch, CN Bowling, LL Murphy, JB Atkinson, DW Byrne, JV Barnett, NJ Brown and KT Murray. Preamyloid Oligomers Are Present In Human Atrium And Are Associated With Post-Operative Atrial Fibrillation, *Circulation* 2011.

Mace LC, LV Yermalitskaya, Z Yang and KT Murray. The time course of remodeling in rapidly stimulated atrial myocytes: Early electrophysiologic and molecular determinants. *FASEB J* 22:1155.5, 2008.

Mace LC, Y Yi, X Hu, Z Yang and KT Murray. Cellular remodeling in rapidly stimulated atrial myocytes and tissue. *The FASEB J* 20:A321, 2006.

Mace LC, Z Yang, X Hu and KT Murray. Electrical remodeling in rapidly-stimulated, isolated canine atrium. *Biophys J*, 90:545a, 2006.

Reis JJ, SE Cala, KN Jew, **LC Mace**, RL Moore and YC Ng. Expression of phospholemman in aged skeletal muscle: effect of exercise training. *FASEB J*, Experimental Biology 2004.

Mace, LC, BM Palmer, JM Lynch, TA Parsons, JY Cheung and RL Moore. Influence of age and training on cardiac Na⁺-Ca²⁺ exchange. *FASEB J* 1: A117, 2003.

Outside Activities

Leadership Training (98 hours completed), 2008 – 2011, Team building, coaching techniques, team and individual goal setting, time management.

Platinum Principles Business Etiquette Course 2010