

Curriculum Vitae
Mark L. Dell'Acqua, Ph.D.

1. Personal Information:

Current Position: Professor and Vice Chair of Pharmacology
Department of Pharmacology
School of Medicine
University of Colorado Denver
Anschutz Medical Campus, Mail Stop 8303
12800 E. 19th Ave
Aurora, CO 80045
Email: mark.dellacqua@ucdenver.edu
Phone: 303-724-3616

2. Education:

1985-1989, University of Maryland at College Park, B.S. Biochemistry *cum laude* with high honors in Chemistry, 1989. Advisor: John A. Gerlt, Ph.D.
1989-1995, Harvard University, Ph.D. Biochemistry, 1995. Advisor: Ernest G. Peralta, Ph.D.
1995-1999, Howard Hughes Medical Institute, Vollum Institute, Oregon Health Sciences University, Postdoctoral Training in Cell Biology and Neuroscience. Advisor: John D. Scott, Ph.D.

3. Academic Appointments:

1989-1995, Predoctoral Fellow, Department of Biochemistry and Molecular Biology, Harvard University.
1995-1997, Postdoctoral Fellow, Vollum Institute, Oregon Health Sciences University
1997-1999, Research Associate, Howard Hughes Medical Institute, Vollum Institute, Oregon Health Sciences University.
1999-2006, Assistant Professor, Department of Pharmacology, School of Medicine, University of Colorado at Denver and Health Sciences Center.
2006-2012, Associate Professor with tenure, Department of Pharmacology, School of Medicine, University of Colorado at Denver and Health Sciences Center.
2010-2019, Director, University of Colorado School of Medicine Advanced Light Microscopy Core
2010-present, Vice-Chair, Department of Pharmacology, University of Colorado School of Medicine
2012-present, Professor with tenure, Department of Pharmacology, University of Colorado School of Medicine
2014-present, Member Linda Crnic Institute for Down Syndrome, University of Colorado
2015-present, Member, Rocky Mountain Alzheimer's Disease Center, University of Colorado
2019-present, Director, University of Colorado School of Medicine NeuroTechnology Center

4. Other Professional Positions:

N/A

5. Honors, Special Recognition and Awards:

1989-1990, National Research Service Award- Molecular and Cell Biology Training Grant Awardee, Department of Biochemistry and Molecular Biology, Harvard University, Cambridge, MA.

1990-1995, Howard Hughes Medical Institute Predoctoral Fellowship, Department of Biochemistry and Molecular Biology, Harvard University, Cambridge, MA.

1995-1996, National Research Service Award- Cardiovascular Science Training Grant Awardee, Oregon Health Sciences University, Portland, OR.

2001-2004, American Heart Association Scientist Development Grant Award, Department of Pharmacology, School of Medicine, University of Colorado at Denver and Health Sciences Center

2002, Invited Speaker, ASPET symposium on “Local Signaling Complexes and Regulation of Ion Channels” at Experimental Biology 2002, New Orleans, LA.

2003, Invited Speaker, Endocrine Society symposium on “Subcellular Localization of Kinase/Phosphatase Signaling Complexes” at Endocrine Society Meeting 2003, Philadelphia, PA.

2004, Invited Grass Foundation Keynote Speaker, “Protein Kinase and Phosphatase Scaffold Proteins in Synaptic Plasticity”, University of New Mexico Neuroscience Day 2004.

2005 UCDHSC Department of Pharmacology Research Award

2007 UCDHSC Department of Pharmacology Teaching Award

2007 Session Chair and invited speaker, ASPET Symposium on “Imaging Localized cAMP Signaling Dynamics Organized by AKAP Scaffold Proteins & Phosphodiesterases” at Experimental Biology 2007, Washington, DC.

2008 Louisiana State University Neuroscience Center Chancellor’s Award Lecture

2010 Session Chair and Invited Speaker, FASEB Summer Conference on Protein Phosphatases, Steamboat Springs, CO

2011 University of Colorado Denver, Graduate School, Dean’s Mentoring Award

2011 University of California Davis, Training Program in Basic and Translational Cardiovascular Science Distinguished Speakers Seminar Series

2011 University of Colorado Department of Pharmacology Vice-Chair Service Recognition Award

2013 Chair and Meeting Organizer 4th International Meeting on Anchored cAMP Signaling Pathways, Denver, CO.

2013 University of Colorado Department of Pharmacology Vice-Chair Service Recognition Award

2014 University of Colorado Department of Pharmacology Research Award

2015 University of Colorado Department of Pharmacology Research Award

2015-2017 Conference Organizer, FASEB Scientific Research Conference on Ion Channel Regulation, July 2017 9-14, Steamboat Springs, CO

6. Membership in Professional Organizations:

Society for Neuroscience, 2000-present
American Society for Cell Biology, 2005-present.
American Society of Pharmacology and Experimental Therapeutics, 2006-present

7. Committees and Service:

CU-Anschutz Department of Pharmacology:

Member of Pharmacology Training Grant Faculty-2000-present
Member, Graduate Training Committee 2001-present
Member, Graduate Admissions and Recruiting Committee 2001-present
Member, Annual Report Committee 2003-2004
Chair, Fitzsimons Gala Committee 2003-2004
Member of Pharmacology Seminar Committee 2010-present
Chair, Neuropharmacology Faculty Search Committee 2010-2011
Vice-Chair, Pharmacology 2010-present
Member, Cancer Pharmacology Faculty Search Committee 2011-2013
Chair, Neuropharmacology Faculty Search Committee 2014-2015
Chair, Neuropharmacology Faculty Search Committee 2016-2017
Department Financial Administrator Search Committee Member 2018

CU-Anschutz Program in Neuroscience and NeuroTechnology Center (NTC):

Member of Neuroscience Training Grant Faculty-2000-present.
Member, Curriculum Committee 2002-2006.
Director, Core B-Rocky Mountain Neurological Disorders Core Center-Gene targeted vectors, 2004-2011.
Director, Core A-Rocky Mountain Neurological Disorders Core Center-Microscopy Core, 2011-2015
Member, Neuroscience Program Steering Committee, 2012
Director, Core B-Rocky Mountain Neurological Disorders Core Center-Nanoscopies Core, 2015-present
CNS/NTC Administrator Search Committee Member, 2018
Director, University of Colorado School of Medicine NeuroTechnology Center (NTC), 2019-present

CU-Anschutz, School of Medicine:

Member of Biological Sciences Program Faculty-2000-present
Member of Medical Scientist Training Grant Faculty-2001-present
Member, Microscopy Research Retreat Committee 2009
Member, Combined Light Microscopy Core Steering Committee 2010
Member, Strategic Planning Committee-Research-Neuroscience 2011-12
Member, Strategic Planning Committee-Research-Infrastructure 2011-12
Member, Chair of Anesthesiology Search Committee 2014-15
Director, Advanced Light Microscopy Core Facility 2010-2019
Member, Research Productivity Committee 2016-present
Member, Immunology and Microbiology Chair Search Committee, 2018

University of Colorado, Denver – Anschutz Medical Campus and Downtown Campus:

Member, Search Committee for Director, Office of Laboratory Animal Research 2005.
Univ. of Colorado Cancer Center-ACS Grant review- 2006

Member, Biomedical Sciences Graduate School Core Course subcommittee- 2008
Member, Graduate School Student Appeals Panel-2008
Univ. of Colorado Cancer Center-ACS Grant review- 2009
Member, External Review Committee CU-Denver Department of Chemistry- 2015
CCTSI K to R mock-study section grant review-2018
CCTSI Co-pilot grant reviewer-2018
Linda Crnic Institute for Down Syndrome Challenge Grant study section-2019

8. Licensure and Board Certification:

N/A

9. Inventions, Intellectual Property and Patents:

N/A

10. Review and Referee Work:

Grant Review Service:

American Heart Association-Molecular Signaling 2 study section 2002-2003
NIH-ZRG1 F03B Physiology, Pharmacology, & Molecular Structure study section 2005-2006 ad-hoc
CDMRP Alcohol Review Panel 2005
University of Colorado Cancer Center-ACS grant review panel 2006
NIH-SYN Synapses, Cytoskeleton, & Trafficking study section 2007-2009 ad hoc
NSF ad-hoc grant review 2008-present
Wellcome Trust (UK) ad-hoc Grant review 2008
NIH-NTRC study section 2009 ad hoc
Wellcome Trust (UK) ad-hoc Grant review 2011
DFG (Germany) ad-hoc Grant review 2012
NIH-SYN Synapses, Cytoskeleton, & Trafficking study section study section, chartered member 2010-2014
NIH ZRG1 IFCN-L (02) special emphasis panel 2017 ad hoc
NIH ZRG1 IFCN-L (02) special emphasis panel 2018 ad hoc
NIH ZRG1 IMST-D (02) special emphasis panel 2018 ad hoc
NIH ZRG1 MDCN-E(04) special emphasis panel 2018 ad hoc
NIH ZRG1 F03B Physiology, Pharmacology, & Molecular Structure study section 2019 ad-hoc

Journal Review:

Ad hoc reviewer 1999-present for: *Neuron*, *Cell Reports*, *Nature Neurosci.*, *J. Neurosci.*, *J. Biol. Chem.*, *PNAS*, *EMBO J.*, *Curr. Biol.*, *Mol. Cell Biol.*, *J. Exp. Cell Res.*, *Mol. Cell. Neurosci.*, *J Cell Biol.*, *Neuroscience*, *J. Dev. Neurobiol.*, *PloS One*, *J. Neurochem.*, *J. Neurophysiol.*, *Nat. Chem. Biology*, *Curr Opin Cell Biol*, *TIBS*, *Biochemistry*, *JoVE*, *Proc Natl Acad Sci USA.*, *J. Mol. Cell Cardiology*, *FEBS*, *PloS Bio*, *TINS*, *Molecular Pharmacology*, *eLife*, *Biological Psychiatry*, *Molecular Psychiatry*

Editorial Board Membership:

2014-present member *Molecular Pharmacology*

2016-present member *Faculty of 1000*

11. Invited Seminars and Presentations:

National:

- 2002 **Invited Speaker:** ASPET symposium on “Local Signaling Complexes and Regulation of Ion Channels” at Experimental Biology 2002, New Orleans, LA.
- 2002 **Invited Short Talk:** Keystone Symposium on “Protein Phosphorylation and Mechanisms of Cellular Regulation”, Taos, NM
- 2002 **Invited Seminar:** Oregon Health Sciences University, Vollum Institute Seminar, Portland, OR.
- 2003 **Invited Short Talk:** Keystone Symposium on “Signaling at Cell-Cell Contacts”, Keystone, CO
- 2003 **Invited Speaker:** Endocrine Society symposium on “Subcellular Localization of Kinase/Phosphatase Signaling Complexes” at Endocrine Society Meeting 2003, Philadelphia, PA
- 2003 **Invited Seminar:** Colorado State University, Neuroscience Program Seminar, Fort Collins, CO.
- 2003 **Invited Seminar:** University of North Dakota, School of Medicine, Dept. of Cell Biology and Anatomy Seminar, Grand Forks, ND.
- 2004 **Invited Short Talk:** in session on “Phosphatases in the Nervous System” at the FASEB Summer Conference on Protein Phosphatases, Snowmass, CO.
- 2004 **Invited Seminar:** University of Texas Health Sciences Center San Antonio, School of Medicine, Dept. of Physiology Seminar, San Antonio, TX.
- 2004 **Invited Seminar:** University of New Mexico, School of Medicine, Dept. of Neurosciences, SFN Grass Foundation Keynote Lecture for UNM Neuroscience Day, Albuquerque, NM.
- 2004 **Invited Presenter:** American Heart Association Research Symposium, New Orleans, LA.
- 2005 **Invited Speaker:** in session on “Compartmentalized Signaling in Neurons” at the Spring Brain Research Conference, Sedona, AZ talk (did not attend due to illness).
- 2005 **Invited Seminar:** University of Iowa, Neurosciences Program Seminar, Iowa City, IA.
- 2005 **Invited Seminar:** Albert Einstein College of Medicine, Dept. of Neuroscience Seminar, Bronx, New York, NY.
- 2006 **Invited Seminar:** SUNY at Stonybrook, Dept. of Pharmacology, Stonybrook, NY
- 2006 **Invited Short-talk:** in session on “Phosphatases in the Nervous System” at the FASEB Summer Conference on Protein Phosphatases, Snowmass, CO.
- 2007 **Chair and invited speaker:** Panel on “Postsynaptic Dynamics in Hippocampal Neurons” at the Winter Conference on Brain Research, Snowmass, CO
- 2007 **Chair and invited speaker:** ASPET Symposium on “Imaging Localized cAMP Signaling Dynamics Organized by AKAP Scaffold Proteins & Phosphodiesterases” during Experimental Biology 2007, Washington, DC.
- 2007 **Invited Seminar:** Emory University, Dept. of Pharmacology, Atlanta, GA
- 2007 **Chair and Invited Speaker:** session on “Neuronal AKAP Signaling Complexes” 2nd International Meeting on Anchored cAMP Signaling Complexes, Portland, OR
- 2008 **Invited Seminar:** Louisiana State University Neuroscience Center, Chancellor’s Award Lecture in Neuroscience, New Orleans, LA.

- 2008 **Invited Speaker:** “Regulation of Neuronal L-type Calcium Channel and Activity and Signaling to the Nucleus by AKAP-anchored Calcineurin” at the FASEB Summer Conference on Calcium and Cell Function, Snowmass, CO
- 2008 **Invited Short Talk:** “Calcium-dependent Inactivation of Neuronal L-type Calcium Channel is Mediated by Localized Calcineurin Signaling” at the FASEB Summer Conference on Protein Phosphatases, Snowmass, CO
- 2009 **Chair and Invited Speaker:** session on “Regulation of Neuronal Ion Channels by AKAP Signaling Complexes” at the Winter Conference on Brain Research, Copper Mountain, CO.
- 2009 **Invited Speaker:** Great Lakes GPCR Symposium, Rochester, NY
- 2009 **Invited Seminar:** University of Washington, Department of Pharmacology, Seattle, WA
- 2010 **Invited Seminar:** University of Denver, Department of Biology, Denver, CO
- 2010 **Invited Seminar:** NIH Synaptic and Developmental Plasticity Interest Group, Synaptic Integration Seminar Series, Bethesda, MD
- 2010 **Invited Seminar:** Regis University, Neuroscience Senior Seminar, Denver, CO
- 2010 **Chair and invited Speaker:** session on “Targeting of Protein Phosphatases: Control of Neuronal Calcineurin-PP2B Signaling by Dynamic Scaffolding Interactions” at the FASEB Summer Conference on Protein Phosphatases, Steamboat Springs, CO
- 2010 **Invited Short Talk:** “AKAP79/150 palmitoylation is required for endosomal localization and regulation of postsynaptic structure and function.” Gordon Research Conference on Cell Biology of the Neuron. Waterville Valley, NH
- 2010 **Invited Seminar:** “Regulation of Excitatory Synaptic Plasticity and Signaling to the Nucleus by AKAP-anchored Calcineurin”, University of Tennessee Health Science Center, Department of Pharmacology, Memphis, TN.
- 2011 **Chair and invited speaker:** session on “Regulation of Neuronal Function by AKAP Signaling Complexes” at the Winter Conference on Brain Research, Keystone, CO.
- 2011 **Invited Seminar:** “Regulation of Excitatory Synaptic Plasticity by AKAP Signaling Complexes.” Neurobiology Seminar, University of Maryland, College Park, MD,
- 2011 **Invited Seminar:** “Regulation of Excitatory Synaptic Plasticity and Synapse to Nucleus Signaling by AKAP Signaling Complexes”, Neurobiology Section, NIH-NIEHS, Durham, NC.
- 2011 **Invited Short Talk:** “Regulation of AMPA Receptor Trafficking and Synaptic Plasticity by an AKAP-Calcineurin Signaling Complex” in session on “Ion Channel Trafficking” at the FASEB Summer Conference on Ion Channel Regulation, Steamboat Springs, CO.
- 2011 **Invited Seminar:** “AKAP-anchored Calcineurin Regulates L-type Calcium Channel Activity and Signaling to the Nucleus”, Training Program in Basic and Translational Cardiovascular Science Distinguished Speakers Seminar Series, Departments of Pharmacology and Cardiology, University of California- Davis, Davis, CA
- 2011 **Invited Seminar:** “Regulation of Neuronal L-type Calcium Channels by an AKAP Signaling Complex”, Stark Neuroscience Research Institute, Indiana University School of Medicine, Indianapolis, IN
- 2012 **Invited Speaker:** “Regulation of NMDA receptor-dependent Synaptic Plasticity by AKAP-anchored Calcineurin”, Winter Conference on Brain Research, Snowbird, UT.
- 2012 **Invited Short Talk:** “Isoform-specific binding of MKK7 to Calcineurin” FASEB Summer Conference on Protein Phosphatases, Snowmass, CO.
- 2013 **Invited Seminar:** “Coordination of Postsynaptic cAMP and Calcium Signaling by an AKAP Scaffold Protein”, Neuroscience Program, University of Texas Southwestern Medical Center, Dallas, TX.
- 2013 **Chair and invited speaker:** session on “Imaging Regulation of Postsynaptic Signaling, Scaffolding, and Trafficking Underlying Neuronal Plasticity” at the Winter Conference on Brain Research, Breckenridge, CO.
- 2013 **Invited Seminar:** “Regulation of Synaptic Plasticity by AKAP Signaling Complexes”, Department of Physiology, University of Maryland School of Medicine, Baltimore, MD.

- 2013 **Meeting Organizer and invited speaker:** 4th International Meeting on Anchored cAMP Signaling Complexes, “Imaging postsynaptic AKAP signaling”, Aurora, CO.
- 2013 **Invited Seminar:** “Organization of Postsynaptic cAMP and Calcium Signaling by an AKAP Scaffold Protein” 12/2013, Department of Pharmacology, University of Vermont, Burlington, VT.
- 2014 **Chair and invited speaker:** session on “Regulation of the Dendritic Sine Actin Cytoskeleton and Membrane Trafficking in Health and Disease” at the Winter Conference on Brain Research, Steamboat Springs, CO.
- 2014 **Invited Seminar:** “Regulation of Synaptic Plasticity by an AKAP Scaffold Protein” 2/2014 Department of Pharmacology, University of California, Irvine, Irvine, CA.
- 2014 **Invited Seminar:** “Organization of Postsynaptic cAMP and Calcium Signaling by an AKAP Scaffold Protein” 4/2014, Department of Neuroscience, Johns Hopkins University, Baltimore, MD.
- 2014 **Invited Seminar:** “Organization of Postsynaptic cAMP and Calcium Signaling by an AKAP Scaffold Protein” 5/2014, Institute of Molecular Medicine and Genetics, Georgia Regents University, Augusta, GA.
- 2014 **Invited Speaker:** “Palmitoylation of the scaffold protein AKAP79/150 by DHHC2 regulates postsynaptic membrane trafficking and plasticity mechanisms” 11/2014, Mini-symposium on “Activity-Dependent Regulation of Synaptic Organization and Function by Palmitoylation”, Society for Neuroscience Annual Meeting, Washington, DC.
- 2015 **Invited Speaker:** “Organization of postsynaptic cAMP and Ca²⁺ signaling by an AKAP scaffold protein”, 1/2015, the Winter Conference on Brain Research, Big Sky, MT.
- 2015 **Invited Speaker:** “Calcineurin regulation of neuronal calcium channel activity and signaling to the nucleus”, 5/2015, 19th International Symposium on Calcium Binding Proteins and Calcium Function in Health and Disease: CaBP19, Nashville, TN.
- 2015 **Invited Speaker:** “Regulation of AMPA receptor subunit composition during synaptic plasticity by anchored kinase and phosphatase signaling”, 6/2015, Excitatory Synapses and Brain Function Gordon Research Conference, Newport, RI.
- 2015 **Invited Seminar:** “Organization of postsynaptic cAMP and Ca²⁺ signaling by an AKAP scaffold protein”, 11/2015, Department of Integrated Biology and Pharmacology, University of Texas Health Sciences Center at Houston, Houston, TX.
- 2015 **Invited Seminar:** “Organization of postsynaptic cAMP and Ca²⁺ signaling by scaffold proteins”, 11/2015, Department of Chemistry, University of Colorado-Denver, Denver, CO.
- 2016 **Invited Speaker:** “Amyloid beta postsynaptic signaling through AKAP-anchored calcineurin”, 1/2016, the Winter Conference on Brain Research, Breckenridge, CO.
- 2016 **Invited Seminar:** “Regulation of synaptic plasticity by anchored kinase and phosphatase signaling” 3/2016, Department of Physiology, University of Texas Health Sciences Center at San Antonio, San Antonio, TX.
- 2016 **Invited Seminar:** “Regulation of Synaptic Plasticity by Anchored Kinase and Phosphatase Signaling ” 04/2016, Neuroscience Program, Colorado State University, Fort Collins, CO.
- 2016 **Invited Short-talk:** “L-type Ca²⁺ Channel and STIM1 Regulation of Dendritic Spine ER Structural Plasticity and Excitation-Transcription Coupling” 06/2016 Cell Biology of the Neuron Gordon Research Conference, Waterville Valley, NH.
- 2016 **Invited Short-talk:** “Amyloid Beta Postsynaptic Signaling through AKAP-anchored Calcineurin” 07/2016 FASEB Science Research Conference on Protein Phosphatases, Steamboat Springs, CO.
- 2017 **Invited Speaker:** “Regulation of synaptic plasticity by AKAP palmitoylation”, 01-02/2017, the Winter Conference on Brain Research, Big Sky, MT.
- 2017 **Invited Seminar:** “Regulation of Synaptic Plasticity by Anchored Kinase and Phosphatase Signaling ” 03/2016, Neuroscience Program, University of Colorado, Boulder, CO.

- 2017 **Invited Seminar:** Northwestern University, Feinberg School of Medicine, Department of Pharmacology, “Regulation of Synaptic Plasticity by Anchored Kinase and Phosphatase Signaling”, 09/2017, Chicago, IL
- 2017 **Invited Seminar:** Loyola University Chicago, Stritch School of Medicine, “Regulation of Neuronal Excitation-Transcription Coupling by L-type Ca²⁺ Channel Signaling Complexes”, 09/2017, Maywood, IL
- 2017 **Invited Seminar:** University California Davis, Neuroscience Center, “Regulation of Synaptic Plasticity by Anchored Kinase and Phosphatase Signaling” 10/2017, Davis, CA.
- 2018 **Invited Seminar:** University of Illinois, Neuroscience Program, “Regulation of Neuronal Excitation-Transcription Coupling by L-type Ca²⁺ Channel Signaling Complexes”, 04/2018, Urbana-Champaign, IL
- 2019 **Invited Speaker:** the Winter Conference on Brain Research, “Regulation of Neuronal Excitation-Transcription Coupling by L-type Ca²⁺ Channel Signaling Complexes”, 01-02/2019, Snowmass, CO.
- 2019 **Invited Speaker:** Excitatory Synapses and Brain Function Gordon Research Conference, “Regulation of Synaptic Plasticity by Anchored Kinase/Phosphatase Signaling and Ca²⁺-permeable AMPARs”, 06/2019, Manchester, NH.
- 2019 **Invited Speaker:** TBD 10/2019, Banbury Meeting - CaMKII and its Role as a Self-tuning Structural Protein at the Synapse. Cold Spring Harbor, NY.
- 2020 **Invited Seminar:** TBD 04/2021, University of California-Irvine, Irvine, CA.

International:

- 2004 **Invited Speaker:** Spring Hippocampal Research Conference session on “Compartmentalized Signaling in Hippocampal Pyramidal Cells”, Grand Cayman, BWI.
- 2005 **Invited Speaker:** 1st International Meeting on Anchored cAMP Signaling Events, Berlin, Germany
- 2006 **Invited Seminar:** University of British Columbia, Brain Research Center, Vancouver, BC, Canada.
- 2009 **Invited Seminar:** University of Lausanne, Department of Pharmacology, Lausanne, Switzerland
- 2009 **Poster Presenter:** Excitatory Synapses and Brain Function Gordon Research Conference, Les Diablerets, Switzerland.
- 2010 **Invited Seminar:** University of Innsbruck, Department of Physiology, Innsbruck, Austria.
- 2010 **Session Chair and Invited Speaker:** session on “Neuronal AKAP Signaling Complexes” 3rd International Meeting on Anchored cAMP Signaling Complexes, Oslo, Norway.
- 2016 **Invited Seminar:** “Regulation of Synaptic Plasticity by Anchored Kinase and Phosphatase Signaling” Centro De Biologia Molecular Severo Ochoa, University Of Madrid, Madrid, Spain
- 2016 **Session Chair and Invited Speaker:** 5th International Meeting on Anchored cAMP Signaling Complexes, “Regulation of Synaptic Plasticity by Anchored Kinase and Phosphatase Signaling”, Zermatt, Switzerland.
- 2017 **Invited Seminar:** “Regulation of Synaptic Plasticity by Anchored Kinase and Phosphatase Signaling” University of Tokyo, Tokyo, Japan.
- 2017 **Invited Speaker:** International Ion Channel Conference, “L-type Ca²⁺ Channel and STIM1 Regulation of Dendritic Spine ER Structural Plasticity and Excitation-Transcription Coupling” Qingdao, China
- 2018 **Invited Speaker:** European Ca²⁺ Channel Meeting, “Regulation of Dendritic Ca²⁺ Signals and Excitation-Transcription Coupling by L-type Ca²⁺ Channels” Alpbach, Austria.
- 2019 **Invited Speaker:** FASEB Scientific Research Conference on Ion Channel Regulation, Regulation of Neuronal Excitation-Transcription Coupling by L-channel Ca²⁺ Spikes, July 2019, Lisbon, Portugal.

2020 **Invited Speaker:** TBD June 2020, Symposium- The Neuronal Synapse: Molecular and Cellular Mechanisms of Plasticity and Stability, Hamburg, Germany

12. Teaching Record:

Medical Students, UCHSC/UC-AMC:

Presentations:

2001-2002, Lecturer: Medical Pharmacology (PHCL6000) Opiate Analgesics I and II.
2002-2003, Lecturer: Medical Pharmacology (PHCL6000) Opiate Analgesics I and II.
2003-2004, Lecturer: Medical Pharmacology (PHCL6000) Opiate Analgesics I and II.
2004-2005, Lecturer: Medical Pharmacology (PHCL6000) Opiate Analgesics I and II.
2005-2006, Lecturer: Medical Pharmacology (PHCL6000) Opiate Analgesics I and II.
2005-2006, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2006-2007, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.
2006-2007, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2007-2008, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.
2007-2008, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2008-2009, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.
2008-2009, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2009-2010, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2010-2011, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.
2010-2011, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2011-2012, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.
2011-2012, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2012-2013, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.
2012-2013, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2013-2014, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.
2013-2014, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2014-2015, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.
2014-2015, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2015-2016, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.
2015-2016, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2016-2017, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.
2016-2017, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2017-2018, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.
2017-2018, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers
2018-2019, Lecturer: Nervous System (IDPT6001) Opiate Analgesics I and II.

2018-2019, Lecturer: Molecules to Medicine, (IDPT5002) Cell Signaling II; G protein-coupled receptors and second messengers

Administration:

2000-2001, Reviewer: Medical Pharmacology (PHCL 6000) General Anesthetics I, II, and II; Narcotics I and II.

2002-2003, Co-director: Medical Pharmacology (PHCL6000)

Dental Students, UCHSC:

Administration:

2000-2001, Reviewer: Dental Pharmacology (DSBS 6600) Opiate Analgesics, Anti-inflammatory agents, peripheral analgesics, antihistamines, non-prescription drugs.

2001-2002, Co-director: Dental Pharmacology (DSBS6600)

Graduate Students, UCHSC/UC-AMC:

Presentations:

2000-2001, Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Subcellular Targeting of Signaling Enzymes by Anchoring, Scaffolding and Adapter Proteins. Lecturer: Graduate-Receptors and Cell Signaling (PHCL 7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II.

2001-2002, Lecture: Graduate-Frontiers in Pharmacology (PHCL7600) Subcellular Targeting of Signaling Enzymes by Anchoring, Scaffolding and Adapter Proteins. Lecturer: Graduate Pharmacology (PHCL7620) Cholinergic Neurotransmission I-IV.

Lecturer: Graduate-Receptors and Cell Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II.

2002-2003, Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling.

Lecturer: Graduate Pharmacology (PHCL 7620). Muscarinic Cholinergic Transmission, Glutamatergic Excitatory Synaptic Transmission and Plasticity, G-protein coupled receptors and scaffold proteins.

Lecturer: Graduate-Receptors and Cell Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II.

2003-2004, Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling.

Lecturer: Graduate Pharmacology (PHCL 7620). Muscarinic Cholinergic Transmission, Glutamatergic Excitatory Synaptic Transmission and Plasticity, RGS proteins and GPCR-scaffold protein interactions.

Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II.

Lecturer: Graduate-Molecular and Cellular Neurobiology (NRSC7600) Glutamatergic Excitatory Synaptic Transmission and Plasticity.

2004-2005, Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling.

Lecturer: Graduate Pharmacology (PHCL 7620). Muscarinic Cholinergic Transmission, Glutamatergic Excitatory Synaptic Transmission and Plasticity, RGS proteins and GPCR-scaffold protein interactions.

- Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II.
Lecturer: Graduate-Molecular and Cellular Neurobiology (NRSC7600) Glutamatergic Excitatory Synaptic Transmission and Plasticity.
- 2005-2006, Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling.
Lecturer: Graduate Pharmacology (PHCL 7620). Muscarinic Cholinergic Transmission, Glutamatergic Excitatory Synaptic Transmission and Plasticity, RGS proteins and GPCR-scaffold protein interactions.
Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II.
Lecturer: Graduate-Fundamentals of Neurobiology (NRSC7610) Glutamatergic Excitatory Synaptic Transmission and Plasticity.
- 2006-2007, Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling.
Lecturer: Graduate Pharmacology (PHCL 7620). Muscarinic Cholinergic Transmission, Regulation of G-protein signaling, Glutamatergic Excitatory Synaptic Transmission, and Synaptic Plasticity,
Lecturer: Graduate-Receptors and Signaling (PHCL7606) G protein Coupled Receptors and Second messengers, Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II.
Lecturer: Graduate-Fundamentals of Neurobiology (NRSC7610) Glutamatergic Excitatory Synaptic Transmission and Synaptic Plasticity.
- 2007-2008, Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling.
Lecturer: Graduate Pharmacology (PHCL 7620). Adrenergic and Muscarinic Cholinergic Transmission, Regulation of G-protein signaling, Glutamatergic Excitatory Synaptic Transmission, and Synaptic Plasticity, NIH mock site visit
Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II.
Lecturer: Graduate-Fundamentals of Neurobiology (NRSC7610) Hippocampus Learning Memory: Glutamatergic Excitatory Synaptic Transmission and Synaptic Plasticity.
- 2008-2009, Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling.
Lecturer: Graduate Pharmacology (PHCL 7620). Adrenergic and Muscarinic Cholinergic Transmission, Regulation of G-protein signaling, Glutamatergic Excitatory Synaptic Transmission, and Synaptic Plasticity, NIH mock site visit
Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II
- 2009-2010, Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling.
Lecturer: Graduate Pharmacology (PHCL 7620). Adrenergic and Muscarinic Cholinergic Transmission, Regulation of G-protein signaling, GPCR paper discussion, Glutamatergic Excitatory Synaptic Transmission, and Synaptic Plasticity. Excitatory Synaptic Plasticity Paper Discussion.
Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II
- 2010-2011, Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling.
Lecturer: Graduate Pharmacology (PHCL 7620). GPCR I: Adrenergic and Muscarinic Cholinergic Transmission, GPCR II: Regulation of G-protein Trafficking and Signaling, GPCRIII- paper discussion, Glutamatergic Excitatory Synaptic Transmission and Synaptic Plasticity.

- Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II
- 2011-2012, Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling.
Lecturer: Graduate Pharmacology (PHCL 7620). GPCR I: Adrenergic and Muscarinic Cholinergic Transmission, GPCR II: Regulation of G-protein Trafficking and Signaling, GPCRIII- paper discussion, Glutamatergic Excitatory Synaptic Transmission and Synaptic Plasticity I, Glutamatergic Excitatory Synaptic Transmission and Synaptic Plasticity II-paper discussion
- Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II-paper discussion
- 2012-2013, Lecturer-Molecular and Cellular Neuroscience (NRSC7600)-Regulation of Gene Expression in Neurons I and II-paper discussion
Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling.
Lecturer: Graduate Pharmacology (PHCL 7620). GPCR I: Adrenergic and Muscarinic Cholinergic Transmission, GPCR II: Regulation of G-protein Trafficking and Signaling, GPCRIII- paper discussion
- Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II-paper discussion
- 2013-2014, Lecturer-Molecular and Cellular Neuroscience (NRSC7600)-Regulation of Gene Expression in Neurons I and II-paper discussion
Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling. Lecturer: Graduate Pharmacology (PHCL 7620). Autonomic Nervous System, GPCR I: Adrenergic and Muscarinic Cholinergic Transmission, GPCR II: Regulation of G-protein Trafficking and Signaling, GPCRIII- paper discussion
- Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II-paper discussion. MSTP tutorial for student Alison Hixon-16 hours.
- 2014-2015, Lecturer-Molecular and Cellular Neuroscience (NRSC7600)-Regulation of Gene Expression in Neurons I and II-paper discussion
Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling. Lecturer: Graduate Pharmacology (PHCL 7620) Autonomic Nervous System and Cholinergic Neurotransmission; GPCRs-Adrenergic and Muscarinic Cholinergic Transmission, Opioids and Pain
- Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II-paper discussion.
- 2015-2016,
Lecturer and paper discussion (NRSC7501)-Introduction to Neuroscience-Dendritic Spines as Postsynaptic Signaling Compartments (in 2015).
Lecturer-Molecular and Cellular Neuroscience (NRSC7600)-Regulation of Gene Expression in Neurons I and II-paper discussion (in 2015).
Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling (in 2015).
Lecturer: Graduate Pharmacology (PHCL 7620) Autonomic Nervous System and Cholinergic Neurotransmission; GPCRs-Adrenergic and Muscarinic Cholinergic Transmission, Opioids and Pain (in 2016)
- Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II-paper discussion (in 2016).
- 2016-2017,
Lecturer and paper discussion (NRSC7501)-Introduction to Neuroscience-Dendritic Spines as Postsynaptic Signaling Compartments (in 2016).

Lecturer-Molecular and Cellular Neuroscience (NRSC7600)-Regulation of Gene Expression in Neurons I and II-paper discussion (in 2016).

Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling (in 2016).

Lecturer: Graduate Pharmacology (PHCL 7620) Autonomic Nervous System and Cholinergic Neurotransmission; GPCRs-Adrenergic and Muscarinic Cholinergic Transmission, Opioids and Pain (in 2017)

Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II-paper discussion (in 2017).

2017-2018,

Lecturer and paper discussion (NRSC7501)-Introduction to Neuroscience-Dendritic Spines as Postsynaptic Signaling Compartments (in 2017).

Lecturer-Molecular and Cellular Neuroscience (NRSC7600)-Regulation of Gene Expression in Neurons I and II-paper discussion (in 2017).

Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Imaging Kinase and Phosphatase Signaling (in 2017).

Lecturer: Graduate Pharmacology (PHCL 7620) Autonomic Nervous System and Cholinergic Neurotransmission; GPCRs-Adrenergic and Muscarinic Cholinergic Transmission (in 2018)

Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II-paper discussion (in 2018).

2018-2019,

Lecturer and paper discussion (NRSC7501)-Introduction to Neuroscience-Dendritic Spines as Postsynaptic Signaling Compartments (in 2018).

Lecturer-Molecular and Cellular Neuroscience (NRSC7600)-Regulation of Gene Expression in Neurons I and II-paper discussion (in 2018).

Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Neuronal Excitation Coupling (in 2018).

Lecturer: Graduate Pharmacology (PHCL 7620) Autonomic Nervous System and Cholinergic Neurotransmission; GPCRs-Adrenergic and Muscarinic Cholinergic Transmission (in 2019)

Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II-paper discussion (in 2019).

2019-2020,

Lecturer and paper discussion (NRSC7501)-Introduction to Neuroscience-Dendritic Spines as Postsynaptic Signaling Compartments (in 2019).

Lecturer-Molecular and Cellular Neuroscience (NRSC7600)-Regulation of Gene Expression in Neurons I and II-paper discussion (in 2019).

Lecturer: Graduate-Frontiers in Pharmacology (PHCL 7600) Neuronal Excitation Coupling (in 2019).

Lecturer: Graduate Pharmacology (PHCL 7620) Autonomic Nervous System and Cholinergic Neurotransmission; GPCRs-Adrenergic and Muscarinic Cholinergic Transmission (in 2020)

Lecturer: Graduate-Receptors and Signaling (PHCL7606) Serine/Threonine Kinases-Anchoring Proteins/Scaffolds I and II-paper discussion (in 2020).

Administration:

2004-2005, Director: Graduate-Receptors and Cell Signaling (PHCL7606)

2005-2006, Director: Graduate-Receptors and Cell Signaling (PHCL7606)

2006-2007, Director: Graduate-Receptors and Cell Signaling (PHCL7606)

2007-2008, Director: Graduate-Receptors and Cell Signaling (PHCL7606)

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2009-2010, Director: Graduate-Receptors and Cell Signaling (PHCL7606)

2010-2011, Director: Graduate-Receptors and Cell Signaling (PHCL7606)

2011-2012, Director: Graduate-Receptors and Cell Signaling (PHCL7606)
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2015-2016, Director: Graduate-Receptors and Cell Signaling (PHCL7606)
2016-2017, Director: Graduate-Receptors and Cell Signaling (PHCL7606)
2017-2018, Director: Graduate-Receptors and Cell Signaling (PHCL7606)
2018-2019, Director: Graduate-Receptors and Cell Signaling (PHCL7606)
2019-2020, Director: Graduate-Receptors and Cell Signaling (PHCL7606)

Current Graduate Predoctoral Trainees in my Laboratory:

2016-present, Tyler Martinez, Pharmacology
2018-present, Katlin Hahm, Neuroscience

Current Postdoctoral Trainees in my Laboratory:

2019-present, Olga Prikhodko, PhD (co-mentor with Dr. Matthew Kennedy)

Past Undergraduate Predoctoral Trainees in my Laboratory:

2010 Sharon Wu, Yale University, Current Position: M.D., Ph.D. Student Tufts University
2011-2012 Eric Robinson, Cornell University, Current Position: Medical Student New York University Langone Medical Center, Icahn School of Medicine at Mount Sinai
2012-2015 Scott Schelp, University of Colorado, Denver, Current Position: PhD Student, University of Maryland School of Medicine
2013-2014 Kendyl Greimann (URM), Gustavus Adolphus College, Current Position: chiropractic student Northwestern Health Sciences University
2017 Claire Baker, Vassar College
2019 Phoebe Garfield, George Washington High School IB Program

Past Graduate Student and Postdoctoral Trainees in my Laboratory:

2001-2005, Karen E. Smith, Ph.D. (postdoc), Current position: Clinical Practice Manager, Evergreen, CO.
2002-2006, Jessica A. Gorski, Ph.D. (postdoc), Current position: Lecturer/adjunct faculty, University of Colorado, Boulder, CO.
2002-2007, Eric A. Horne, Ph.D. Pharmacology (predoc), Current Position: Medical Science Liaison Psychiatry, Lundbeck LLC, Seattle, WA
2003-2008, Seth F. Oliveria, MSTP-Neuroscience (predoc), co-mentored with Dr. Bill Sather, Current position: Neurosurgery private practice, Portland, OR.
2004-2008, Holly R. Hudson, Pharmacology (predoc) Current position: Center Coordinator, Duke Clinical Research Center, Durham, NC.
2005-2009, Peter Clapp, Ph.D., (postdoc), co-mentored with Dr. Paula Hoffman. Current Position: Assistant Professor, Pharmacy Program, Regis University, Denver, CO.
2005-2010, Mathew D. Pink, Ph.D., Neuroscience (predoc) Current Position: Senior Manager, Licensing, CSL Behring, Philadelphia, PA.
2008-2014, Jennifer Sanderson, Ph.D., (postdoc) Current Position: Research Instructor, Department of Pharmacology, University of Colorado, Aurora, CO.

2009-2014, Jonathan Murphy, Ph.D. Neuroscience (predoc) Current Position: Postdoctoral Fellow, laboratory of Dax Hoffman, PhD, NIH/NICHHD, Bethesda, MD.

2010-2016, Kevin Woolfrey, Ph.D., (postdoc) Current Position: Research Associate, Department of Pharmacology, University of Colorado, Aurora, CO

2010-2017, Philip Dittmer, Ph.D., (postdoc, co-mentor with William Sather) Current Position: Research Associate, Department of Pharmacology, University of Colorado, Aurora, CO

2014-2018, Kevin C. Crosby, Ph.D., (postdoc, co-mentor with William Sather), Current Position: Research Associate, Department of Pharmacology, University of Colorado, Aurora, CO

2014-2019, Alicia Purkey, Ph.D., Pharmacology (predoc), Current Position: Postdoctoral Fellow, laboratory of Scott Soderling, PhD, Duke University, Durham, NC.

2014-2019, Angela Wild, Ph.D., (postdoc) Current Position: Senior Research Associate, laboratory of Shernaz Bamji, Ph.D., University of British Columbia, Vancouver, BC, Canada.

13. Grant Support:

Active Research Funding:

<u>Project</u>	<u>Dates of Project</u> <u>Annual Direct Costs</u>	<u>Calendar Effort</u>
5R01 NS040701-17A1 (Dell'Acqua) NIH/NINDS Regulation of Calcium-permeable AMPA Receptors by AKAP79 Postsynaptic Signaling Role: PI	5/01/2019-3/31/2024 \$278,131	3
5R01 MH102338-05 (Dell'Acqua) NIH/NIMH Mechanisms of Neuronal Calcineurin-NFAT Synapse-to-Nucleus Signaling Role: PI.	12/01/2013-11/30/2019 (in NCE) \$279,000	3
R01 MH102338-05S1 (Dell'Acqua) NIH/NIMH Administrative Supplement to parent award "Mechanisms of Neuronal Calcineurin-NFAT Synapse-to-Nucleus Signaling"	12/01/2018-11/30/2019 \$25,000	
1R01 NS110383-01 (Multi PI: Dell'Acqua, Bayer, Kennedy) NIH/NINDS Postsynaptic Kinase/Phosphatase Networks in Amyloid beta-induced Synaptic dysfunction Role: corresponding PI	9/30/2018-6/30/2023 \$165,000 (\$375,026 total)	1.8
4R01 NS081248-05 (Bayer) NIH/NINDS CaMKII substrate-selection in opposing forms of synaptic plasticity Role: Co-investigator.	04/01/2017-03/31/2021 \$218,750	0.6
NeuroTechnology Center (NTC) Director Funds	07/01/2019-06/30/2024	1.2

University of Colorado School of Medicine \$250,000 total
Role: PI/Director

2T32 GM007635-41 (Dell'Acqua) 07/01/2019-06/30/2024 0.6
NIH/NIGMS \$253,528
Predoctoral Training Grant in Pharmacology
Role: PI (Co-PI, Port)

P30 NS048154-12 (Ribera) 01/01/15-12/31/2019 0.12
NIH/NINDS \$120,000
Core Center Grant
Role: I am the director of the University of Colorado School of Medicine Advanced Light Microscopy Core that is supported in part by this P30 core center grant.

Pending Research Funding:

<u>Project</u>	<u>Dates of Project</u> <u>Annual Direct Costs</u>
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Completed Research Funding:

<u>Project</u>	<u>Dates of Project</u> <u>Annual Direct Costs</u>
SDG-0130228N (Dell'Acqua) American Heart Association Regulation of the Dendritic Actin Cytoskeleton by the AKAP79 Signaling Scaffold during Glutamate Excitotoxicity. Role: PI	1/01/2001-12/31/2004 \$60,000
R01 NS40701-04 (Dell'Acqua) NIH/NINDS Regulation of AKAP79 Postsynaptic Membrane Targeting Role: PI	08/01/2001-07/30/2005 \$175,000
U01 AA14101-04 (Hoffman) NIH/NIAAA Role of Glutamate Receptors in excessive alcohol drinking Role: Co-investigator	2/01/2002-1/31/2006 \$183,002
P01 AG04418 (Bickford) NIH/NIA Program: Aminergic Function in Aging and Alzheimer's Disease Project 1: Catecholamines, Antioxidants, and Inflammation in the Cerebellum	7/01/2001-6/31/2006 \$30,000

Role: Co-investigator as a subcontract on two specific aims (aims 4 and 5) of PPG-project 1 (PI: Paula Bickford, University of South Florida) for an Aging Program Project Grant.

PN200605-300 (Dell'Acqua) 07/01/2006-06/30/2007
Sie Foundation Seed Grant \$50,000
Altered Excitatory Postsynaptic Structure and Function in Down Syndrome
Role: PI

R01 NS40701-08 (Dell'Acqua) 08/01/2005-07/30/2009
NIH/NINDS \$218,000
Regulation of AKAP79 Postsynaptic Membrane Targeting
Role: PI

R01 AA014021-05 (Hoffman) 02/01/2005-12/31/2009
NIH-NIAAA \$257,680
Regulation of NMDA Receptor Localization by Chronic Ethanol Exposure
Role: Co-investigator

P30 NS048154-05 (Ribera) 09/15/04-06/30/2009 plus a 1 year no-cost
NIH/NINDS extension and a 5 month supplement to 11/30/2010
Core Center Grant \$154,655
Role: Core director of molecular biology core B to construct targeting vectors for generation of transgenic and gene knockout mice and viral expression vectors for brain slice and in vivo imaging of fluorescent proteins.

1R01 NS076577 (Benke) 09/01/2011-12/31/2012
NIH/NINDS \$218,750
Molecular mechanisms linking early life seizures, autism and intellectual disability
Role: Co-investigator.

5R01 NS40701-12 (Dell'Acqua) 08/01/2009-05/14/2013
NIH/NINDS \$265,000
Regulation of AKAP79 Postsynaptic Membrane Targeting
Role: PI

5UL1 RR025780-05S1 (Sokol) 05/18/2008 – 10/31/2013
NIH/NCRR \$43,500
Colorado Clinical and Translational Sciences Institute-CTSA 4 NeTT Microscopy Core
Role: I am the director of the University of Colorado School of Medicine Advanced Light Microscopy Core (ALMC) that is supported in part by this UL1 CTSA grant.

2R56 NS40701-13 (Dell'Acqua) 5/15/13-04/30/15(A0-A1 bridge)
NIH/NINDS \$349,918
Regulation of AKAP79 Postsynaptic Membrane Targeting and Signaling
Role: PI

LCI Seed Grant (Dell'Acqua) 04/01/14-03/31/15
Linda Crnic Center \$100,000
Amyloid Beta Postsynaptic Signaling through Anchored Calcineurin
Role: PI.

5R01 MH080291-06A1(Dell'Acqua) 8/01/2013-7/31/2015 (7/31/2016 NCE)
NIH/NIMH \$350,542
AKAP Regulation of Neuronal L-type Calcium Inactivation (modified from original)
Role: PI.

P30 NS048154-10 (Ribera) 02/01/11-11/30/2015
NIH/NINDS \$130,000
Core Center Grant
Role: I am the director of the University of Colorado School of Medicine Advanced Light Microscopy Core that is supported in part by this P30 core center grant.

1R01 NS081248-04 (Bayer) 07/01/2013-03/31/2017
NIH/NINDS \$218,750
CaMKII substrate-selection in opposing forms of synaptic plasticity
Role: Co-investigator.

1R21 NS094453-02 (Dell'Acqua) 07/01/2016-06/30/2018
NIH/NINDS \$150,000
Amyloid beta postsynaptic signaling through AKAP-anchored calcineurin
Role: PI.

Multi-PI pilot grant 01/01/2017-09/30/2018
Department of Pharmacology. \$37,000 (\$100,000 total)
Pathological A β signaling mechanisms and how to block them
Role: Co-PI

5R01 NS040701-16 (Dell'Acqua) 8/01/2014-4/30/2019
NIH/NINDS \$243,326 NOA for renewal expected Spring 2019
Regulation of AKAP79 Postsynaptic Membrane Targeting and Signaling
Role: PI

5R01 NS040701-16S1 (Dell'Acqua) 8/01/2018-4/30/2019
NIH/NINDS \$30,000
Administrative Supplement to parent grant "Regulation of AKAP79 Postsynaptic Membrane Targeting and Signaling"
Role: PI

CU-Anschutz CNS co-Pilot 04/01/2018-08/31/2019
Center for Neuroscience \$100,000
Role of L-type Calcium Channels in Abnormal Synaptic Plasticity and Neurocognitive Disorders
Role: Co-PI

14. Bibliography:

Peer-reviewed Publications:

1. Wilde, J.A., Bolton, P.H., **Dell'Acqua, M.**, Hibler, D.H., Pourmotabbed, T., Gerlt, J.A. (1988). Identification of Residues Involved in a Conformational Change Accompanying Substitutions for Glutamate-43 in Staphylococcal Nuclease. *Biochemistry* **27**, 4127-4132.
2. Stanczyk, S.M., Bolton, P.H., **Dell'Acqua, M.**, Pourmotabbed, T., Gerlt, J.A. (1988). Direct Observation of Multiple Environments for the H δ but not the H ϵ Proton of a Histidine Residue in Staphylococcal Nuclease. *J. Am. Chem. Soc.* **110**, 7908-7910.
3. Pourmotabbed, T., **Dell'Acqua, M.**, Gerlt, J.A., Stanczyk, S.M., Bolton, P.H. (1990). Kinetic and Conformational Effects of Lysine Substitutions for Arginines 35 and 87 in the Active Site of Staphylococcal Nuclease. *Biochemistry* **29**, 3677-3683.
4. **Dell'Acqua, M.L.**, Carroll, R.C., Peralta, E.P. (1993). Transfected m2 Muscarinic Acetylcholine Receptors Couple to G α i2 and G α i3 in Chinese Hamster Ovary Cells: Activation and Desensitization of the Phospholipase C Signaling Pathway. *J. Biol. Chem.* **268**, 5676-5685.
5. Hausken, Z.E., **Dell'Acqua, M.L.**, Coghlan, V.M., Scott, J.D. (1996) Mutational Analysis of the A-Kinase Anchoring Protein (AKAP)-binding Site on RII: Classification of Side Chain Determinants for Anchoring and Isoform Selective Association with AKAPs. *J. Biol. Chem.* **271**, 29016-29022.
6. Gao, T., Yatani, A., **Dell'Acqua, M.L.**, Sako, H., Green, S.A., Dascal, N., Scott, J.D., Hosey, M.M. (1997) cAMP-dependent Regulation of Cardiac L-type Calcium Channels Requires Membrane Targeting of Protein Kinase A and Phosphorylation of Channel Subunits. *Neuron* **19**, 185-196.
7. **Dell'Acqua, M.L.**, Faux, M.C., Thorburn, J., Thorburn, A., Scott, J.D. (1998) Membrane Targeting Sequences on AKAP79 Bind Phosphatidylinositol-4,5-bisphosphate. *EMBO J.* **17**, 2246-2260. (Featured on Journal Cover)
8. **Dell'Acqua, M.L.**, Dodge, K.L., Tavalin, S.J., Scott J.D. (2002) Mapping the Protein Phosphatase-2B Anchoring Site on AKAP79: Binding and Inhibition of Phosphatase Activity are Mediated by Residues 315-360. *J. Biol. Chem.* **277**, 48796-48802.
9. Gomez, L.L., Alam, S., Smith, K.E., Horne, E., **Dell'Acqua, M.L.** (2002) Regulation of A-Kinase Anchoring Protein 79/150-cAMP-dependent Protein Kinase Postsynaptic Targeting by NMDA Receptor Activation of Calcineurin and Remodeling of Dendritic Actin. *J. Neurosci.* **22**, 7027-7044.
10. Oliveria, S.F., Gomez, L.L., **Dell'Acqua, M.L.** (2003) Imaging Kinase-AKAP79-Phosphatase Scaffold Complexes at the Plasma Membrane in Living Cells using FRET Microscopy. *J. Cell Biol.* **160**, 101-112. (Featured on Journal Cover)
11. Uhlik, M.T., Abell, A.N., Johnson, N.L., Sun, W., Cuevas, B.D., Lobel-Rice, K.E., Horne, E.A., **Dell'Acqua, M.L.**, Johnson, G.L. (2003) Rac-MEKK3-MKK3 scaffolding for p38 MAPK activation during hyperosmotic shock. *Nat Cell Biol.* **5**, 1104-1110.
12. Gorski, J.A., Gomez, L.L., Scott, J.D., **Dell'Acqua, M.L.** (2005) Association of an AKAP Signaling Scaffold with Cadherin Adhesion Molecules in Neurons and Epithelial Cells. *Mol. Biol. Cell* **16**, 3574-3590. (Featured on Journal Cover)
13. Smith, K.E., Gibson, E.S., **Dell'Acqua, M.L.** (2006) cAMP-dependent Protein Kinase Postsynaptic Localization Regulated by NMDA Receptor Activation through Translocation of an A-kinase Anchoring Protein Scaffold Protein. *J. Neurosci.* **26**, 2391-2402.
14. Shcherbakova, O.G., Hurt, C.M., Xiang, Y., **Dell'Acqua, M.L.**, Zhang, Q., Tsien, R.W., Kobilka, B.K. (2007) Organization of β -adrenoreceptor signaling compartments by sympathetic innervation of cardiac myocytes. *J. Cell Biol.* **176**:521-533.
15. Horne, E.A. and **Dell'Acqua, M.L.** (2007) Phospholipase C is required for changes in postsynaptic structure and function associated with NMDA receptor dependent long-term depression. *J. Neurosci.* **27**: 3523-3534.
16. Oliveria, S.F., ***Dell'Acqua, M.L.**, and ***Sather, W.A.** (2007) AKAP79/150 anchoring of calcineurin controls neuronal L-type Ca²⁺ channel activity and nuclear signaling. *Neuron* **55**:261-275. (***co-senior/corresponding author**)

17. Robertson, H.R., Gibson, E.S., Benke, T.A., **Dell'Acqua, M.L.** (2009) Regulation of postsynaptic structure and function by an A-kinase anchoring protein-membrane associated guanylate kinase scaffolding complex. *J. Neurosci.* 29:7929-7943.
18. Clapp, P., Gibson, E.S., **Dell'Acqua, M.L.**, and Hoffman, P.L. (2010) Phosphorylation Regulates Removal of Synaptic NMDA Receptors after Withdrawal from Chronic Ethanol Exposure. *J Pharmacol Exp Ther* 332:720-729
19. Coultrap, S.J., Buard, I., Kulbe, J.R., **Dell'Acqua, M.L.**, and Bayer, K. U. (2010) CaMKII autonomy is substrate-dependent and further stimulated by Ca²⁺/CaM. *J. Biol. Chem.* 285:17930-17937
20. Buard, I., Coultrap, S.J., Freund, R.K., Lee, S-Y., **Dell'Acqua, M.L.**, Silva, A.J., and Bayer, K.U. (2010) CaMKII "Autonomy" is Required for Initiating but not for Maintaining Long-term Information Storage. *J. Neurosci.* 30:8214-8220
21. Lin, L., Sun, W., Kung, F., **Dell'Acqua, M.L.**, and Hoffman, D.A. (2011) AKAP79/150 impacts intrinsic excitability of hippocampal neurons through phospho-regulation of A-type K⁺ channel trafficking. *J. Neurosci.* 31:1323-1332.
22. Brandao, K., **Dell'Acqua, M.L.**, and Levinson, S. R. (2012) AKAP150 localizes in a subset of TRPV1 and Cav1.2 positive nociceptive rat DRG neurons. *J. Comp. Neurology* 520:81-99. (PMC4807902)
23. Li, H., Pink, M.D., Murphy, J., ***Dell'Acqua, M.L.** and ***Hogan, P.** (2012) Balanced interactions of calcineurin with AKAP79 regulate Ca²⁺-calcineurin-NFAT signaling. *Nat. Struc. Mol. Biol.* 19:337-346. (***co-senior/corresponding author**)
24. Keith, D.L., Sanderson, J.L., Gibson, E.S., Woolfrey, K.M., Robertson, H.R., Olszewski, K., Kang, R., El Hussein, A., and **Dell'Acqua, M.L.** (2012) Palmitoylation of an A-Kinase Anchoring Protein 79/150 Regulates Dendritic Endosomal Targeting and Synaptic Plasticity Mechanisms. *J. Neurosci.* 32:7119-7136.
25. Hinke, S.A., Navedo, M.F., Ulman, A., Tian, G., Langeberg, L.K., Tengholm, A., McKnight, G.S., Mark **Dell'Acqua, M.L.**, Santana, F., Scott, J.D. (2012) Anchored phosphatases modulate glucose homeostasis *EMBO J.* 31: 3991-4004
26. Oliveria, S.F., Dittmer, P.J., Yoon, D-H., **Dell'Acqua, M.L.**, Sather, W.A. (2012) Localized calcineurin confers Ca²⁺-dependent inactivation upon neuronal L-type Ca²⁺ channels. *J. Neurosci.* 32:15328-15337.
27. Sanderson, J.L., Gorski, J.A., Gibson, E.S., Lam, P., Freund, R.K., Chick, W.S., **Dell'Acqua, M.L.** (2012) AKAP150-anchored calcineurin regulate synaptic plasticity by limiting synaptic incorporation of Ca²⁺-permeable AMPA receptors. *J. Neurosci.* 32:15036-15052.
28. Nystoriak, M.A., Nieves-Cintrón, M., Hinke, S.A., Nichols, C.B., Chen, C-Y., **Dell'Acqua, M.L.**, Scott, J.D., Santana, L.F., Navedo, M.F. (2013) AKAP150-anchored phosphatase mediates vascular BKCa channel remodeling and enhanced arterial tone in diabetes. *Circulation Research* 114:607-15.
29. Coultrap, S.J., Freund, R.K., O'Leary, H., Buard, I., Barcomb, K., Kulbe, J.R., Sanderson, J.L., Roche, K.W., Benke, T.A., ***Dell'Acqua, M.L.**, ***Bayer, K.U.** (2014) "Autonomous" CaMKII mediates both LTP and LTD using a novel mechanism for differential substrate selection. *Cell Reports* 6:431-7. (***co-senior/corresponding author**)
30. Murphy, J.G., Sanderson, J.L., Gorski, J.A., Scott, J.D., Catterall, W.A., Sather, W.A., **Dell'Acqua, M.L.** (2014) AKAP-anchored PKA maintains neuronal L-type calcium channel activity and NFAT transcriptional signaling. *Cell Reports* 7: 1577-1588.
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43. Woolfrey, K.M., O'Leary, H., Goodell, D.J., Robertson, H.R., Horne, E.A., Couttrap, S.J., ***Dell'Acqua, M.L.**, Bayer, K.U. (2018) CaMKII regulates the de-palmitoylation and synaptic removal of the scaffold protein AKAP79/150 to mediate structural LTD. *J. Biol. Chem.* 293: 1551–1567 (***co-senior/corresponding author**) (PMC5798287).
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49. Wild, A.R., Sinnen, B.L., Dittmer, P.J., Kennedy, M.J., Sather, W.A., **Dell'Acqua, M.L.** (2019) Synapse-to-nucleus communication through NFAT is mediated by L-type Ca²⁺ channel Ca²⁺ spike propagation to the soma. *Cell Reports* 26:3537-3550. (PMC6521872)
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51. Dittmer, PJ, ***Dell'Acqua, ML**, *Sather, WA (2019) Synaptic crosstalk conferred by a zone of differentially-regulated Ca²⁺ signaling in the dendritic shaft adjoining a potentiated spine. *PNAS* 116:13611-13620 (PMC6613087) (***co-senior/corresponding author**)
52. Murphy, JG, Crosby, KC, Dittmer, PJ, Sather, WA, **Dell'Acqua, ML** (2019) AKAP79/150 recruits the transcription factor NFAT to regulate signaling to the nucleus by neuronal L-type Ca²⁺ channels. *Mol Biol Cell* 30:1743-1756 (PMC In Process)

Book Chapters and Peer-reviewed Invited Reviews:

1. Hibler, D.W., Pourmotabbed, T., **Dell'Acqua, M.**, Gerlt, J. A., Stanczyk, S. M., Bolton, P. H., Loll, P., Lattman, E. (1988) Detection of Conformational Changes in Active Site Mutants of Staphylococcal Nuclease in "Protein and Pharmaceutical Engineering." UCLA Symposia on Molecular and Cellular Biology, New Series (C. Craik, F. Fletterick, C. R. Matthews, and J. Wells, Eds.) Arthur R. Liss, Inc., New York, Vol. 110, pp.17-33.
2. Hibler, D. W., Harpold, L., Pourmotabbed, T., **Dell'Acqua, M.**, Gerlt, J. A., Wilde, J. A., Bolton, P. H. (1989) The Use of Isotopic Labeling with 2H and 13C to Compare the Conformations of Proteins and Mutants Generated by Site-Directed Mutagenesis I. *Methods Enzymol.* 177B, 74.
3. Wilde, J. A., Bolton, P. H., Hibler, D. W., Harpold L., Pourmotabbed, T., **Dell'Acqua, M.**, Gerlt, J. A. (1989) The Use of Isotopic Labeling with 2H and 13C to Compare the Conformations of Proteins and Mutants Generated by Site-Directed Mutagenesis II. *Methods Enzymol.* 177B, 282.
4. Scott, J.D., **Dell'Acqua, M.L.**, Fraser, I.D.C., Tavalin, S.J., Lester, L.B. (2000) Coordination of Signaling Events through PKA Anchoring in *Hormones and Signaling: Advances in Pharmacology* (O'Malley B.W., Ed.) Academic Press, San Diego, CA, Vol. 47, pp.175-208.
5. **Dell'Acqua, M.L.** and Scott, J.D. (1997) Protein Kinase A Anchoring. *J. Biol. Chem.* 272, 12881-12884.
6. **Dell'Acqua, M.L.** (2003) Subcellular Targeting of PKA through AKAPs: Conserved Anchoring and Unique Targeting Domains in *Handbook of Cell Signaling, Volume 2* (Bradshaw and Dennis Eds.), Elsevier Academic Press, San Diego, CA, Vol. 2:185, pp.377-381.
7. Smith, K.E., Gorski, J.A., **Dell'Acqua, M.L.** (2005) Regulation of AMPA receptor activity by associated proteins. *Cellscience Reviews* 2, 156-168.
8. **Dell'Acqua, M.L.**, Smith, K. E., Gorski, J.A., Horne, E. A., Gibson, E. S., Gomez, L.L. (2006) Regulation of Neuronal PKA Signaling through AKAP Targeting Dynamics. *Eur. J. Cell Biol.* 85, 627-633.

9. Pink, M.D. and **Dell'Acqua, M.L.** (2009) Subcellular Targeting of PKA through AKAPs: Conserved Anchoring and Unique Targeting Domains in *Handbook of Cell Signaling 2nd Edition* (Bradshaw and Dennis Eds.), Elsevier Oxford: Academic Press, Volume 2, pp1329-1336.
10. Sanderson, J.L. and **Dell'Acqua, M.L.** (2011) AKAP Signaling Complexes in Regulation of Excitatory Synaptic Plasticity, *The Neuroscientist* 17:321-336.
11. Woolfrey, K.M. and **Dell'Acqua, M.L.** (2015) Coordination of Protein Phosphorylation and Dephosphorylation in Synaptic Plasticity. *J. Biol. Chem.* 290:28604-28612. (PMC466137).
12. Wild, A.R., **Dell'Acqua, M.L.**, (2018) Potential for Therapeutic Targeting of AKAP Signaling Complexes in Nervous System Disorders. *Pharmacology and Therapeutics* 185: 99-121. (PMC5899024)
13. **Dell'Acqua M.L.**, Woolfrey K.M. (2018) FRETting over postsynaptic PKC signaling. *Nat Neurosci.* 21:1021-1022.

Meeting Abstracts:

Non-competitive:

1. **Dell'Acqua, M.L.** (2000) Regulation of AKAP79 Postsynaptic Targeting. Society for Neuroscience Meeting 26, Abstract# 597.2, pp. 1591. Oral Presentation.
2. **Dell'Acqua, M.L.**, Gomez, L.L., Alam, S., Bishop, A., Scott, J.D. (2001) AKAP79 Postsynaptic Targeting and Binding to Cadherins. Society for Neuroscience Meeting 27, Abstract# 277.11. Poster.
3. **Dell'Acqua, M.L.**, Gomez, L.L., Horne, E., Alam, S., Smith, K.E. (2002) Imaging AKAP79 signaling scaffold assembly and postsynaptic targeting. Society for Neuroscience Meeting 32. Abstract# 447.5. Poster.
4. Smith, K.E., Gomez, L.L., Alam, S., **Dell'Acqua, M.L.** (2002) Regulation of AKAP79/150 postsynaptic localization by NMDA receptor–calcineurin pathways implicated in LTD. Society for Neuroscience Meeting 32. Abstract# 648.7. Poster.
5. **Dell'Acqua, M.L.** (2002) Dynamic regulation of synaptic signaling complexes: targeting of kinases and phosphatases to ion channels through AKAPs. Experimental Biology 2002, New Orleans, LA, ASPET symposium on Local Signaling Complexes and Regulation of Ion Channels: Novel Roles in Cardiovascular Disease, S-687. Plenary Presentation.
6. **Dell'Acqua, M.L.** (2003) Subcellular Localization of Kinase/Phosphatase Signaling Complexes Endocrine Society Meeting 2003 Symposium of Subcellular Organization of Kinase/Phosphatase Signaling Complexes, Philadelphia, PA. Abstract S49-2. Plenary Presentation.
7. Horne, E.A., Gomez, L.L., **Dell'Acqua, M.L.** (2003) Imaging Regulation of AKAP79/150 Postsynaptic Targeting. Program No. 52.6 Abstract Viewer. Washington. D.C., Society for Neuroscience. Poster.
8. Gorski, J.A., Gomez, L.L., Bishop, A., Scott, J.D., **Dell'Acqua, M.L.** (2003) AKAP79 Binding to Cadherins: Polarized Targeting of a Kinase-Phosphatase Signaling Scaffold to the Postsynaptic Density. Program No. 52.7 Abstract Viewer. Washington. D.C., Society for Neuroscience. Poster.
9. Smith, K.E., **Dell'Acqua, M.L.** (2003) NMDA receptor–Calcineurin Pathways Implicated in LTD Induce Changes in the Localization of AKAP79/150 and PKA RIIbeta. Program No. 584.10 Abstract Viewer. Washington. D.C., Society for Neuroscience. Poster.
10. Hudson, H.R., Gibson, E.S., **Dell'Acqua, M.L.** (2004) Regulation of Dendritic Spine Development by AKAP79/150. Program No. 388.2 Abstract Viewer. Washington. D.C., Society for Neuroscience. Poster.

11. Horne, E.A., **Dell'Acqua, M.L.** (2004) NMDA Receptor Regulation of AKAP79 Postsynaptic Targeting through PLC Activation. Program No. 738.1. Abstract Viewer. Washington. D.C., Society for Neuroscience. Poster.
12. Smith, K.E., Gibson, E.S., **Dell'Acqua, M.L.** (2004) Loss of AKAP79/150 and Anchored PKA-RII from Synapses in Response to NMDA Receptor Activation. Program No. 738.2. Abstract Viewer. Washington. D.C., Society for Neuroscience. Poster.
13. Horne, E.A., **Dell'Acqua, M.L.** (2005) AKAP79 Targeting Regulation in Response to NMDA Receptor Activation. Synaptic Function and Plasticity Conference. Vancouver, BC, Canada Abstract# P094. Poster
14. Pink, MD and **Dell'Acqua, M.L.** (2006) Dynamics of AKAP79 anchoring. Program No.. Abstract Viewer. Atlanta. GA, Society for Neuroscience. Poster.
15. Oliveria, SF, Ohrtman, J., Gibson, E.S., **Dell'Acqua, M.L.**, Sather, W.A. (2006) Regulation of Neuronal L-type Ca²⁺ channels by AKAP-anchored PKA and Calcineurin. Abstract Viewer. Atlanta, GA, Society for Neuroscience. Oral presentation.
16. **Dell'Acqua, M.L.**, Oliveria, S.F., Sather, W.A. (2008) Localized Calcineurin Confers Ca²⁺-dependent Inactivation upon Neuronal L-type Ca²⁺ Channels. Program No. 429.14. Abstract Viewer. Washington, DC, Society for Neuroscience.
17. Sanderson, J.L., Freund, R.K, Gibson, E.S., Smith, K.E., **Dell'Acqua, M.L.** (2009) Mice-lacking AKAP150-Calcineurin Anchoring have Impaired Hippocampal LTD. Program No. 40.11. Abstract Viewer. Chicago, IL, Society for Neuroscience.
18. Sather, W.A., Oliveria, S.F., **Dell'Acqua, M.L.** (2009) Localized Calcineurin in Calcium-dependent Inactivation of L-type calcium channels. Program No. 36.8. Abstract Viewer. Chicago, IL, Society for Neuroscience.
19. Pink, M.D., Li, H, Sather, W.A., Hogan, P., **Dell'Acqua, M.L.** (2009) Calcineurin Anchoring Dynamics in a Neuronal Signaling Complex Promote Transduction of Membrane Proximal Calcium Signals to the Nucleus. Program No. 519.14. Abstract Viewer. Chicago, IL, Society for Neuroscience.
20. Graw, S.L., Freund, R., **Dell'Acqua, M.**, and Leonard, S. (2010) Loss of LTP in alpha 7 nicotinic receptor knockout mice is strain dependent. Program No. 236.2 Abstract Viewer. San Diego, CA, Society for Neuroscience.
21. Scott-McKean, J.J., Smith, K.E., **Dell'Acqua, M.L.** and Costa, A.C.S. (2010) Assessment of chemically induced LTD in mouse models of Down syndrome. Program No. 141.18 Abstract Viewer. San Diego, CA, Society for Neuroscience.
22. Murphy, JG, **Dell'Acqua, ML** (2011) Visualizing the Regulation of L-type Calcium Channel-dependent Dendrite to Nucleus Signaling by AKAP79/150. Program No. 658.10 Abstract Viewer. Washington, DC, Society for Neuroscience.
23. Freund, RK, Graw, SL, Floyd, K, Leonard, S, **Dell'Acqua, ML** (2011) LTD Deficit in alpha 7 neuronal nicotinic receptor knockout mice is strain dependent. Program No. 347.05 Abstract Viewer. Washington, DC, Society for Neuroscience.
24. Keith, D.L., Sanderson, J.L., Gibson, E.S., Woolfrey, K., Robertson, H.R., Olszewski, K., Kang, R., El Husseini, A., and **Dell'Acqua, ML** (2011) Palmitoylation of an AKAP Scaffold Protein Regulates Dendritic Endosomal Targeting and Synaptic Plasticity Mechanisms. Program No. 754 American Society for Cell Biology Annual Meeting. Denver, CO.
25. Gorski, JA, Sanderson, JL, Pink, MD, **Dell'Acqua, ML**, (2011) Synaptic Activity Stabilizes the Post-synaptic Density Scaffold Proteins SAP97 and AKAP79 in the Neuronal Dendritic Spine. Program No. 747 American Society for Cell Biology Annual Meeting. Denver, CO.
26. Lin, L, Sun, W, Kung, F, **Dell'Acqua, ML**, and Hoffman, DA (2011) AKAP79/150 impacts intrinsic excitability of hippocampal neurons through phospho-regulation of A-type K⁺ channel trafficking. Program No. 253.04 Abstract Viewer. Washington, DC, Society for Neuroscience.
27. Yang, H, Siddoway, B, Hou, H, **Dell'Acqua, ML**, Xia, H (2011) Studying the Interaction between Protein Phosphatase 1 and its Binding Proteins by Bioluminescence Resonance

Energy Transfer Program No. 658.15 Abstract Viewer. Washington, DC, Society for Neuroscience.

28. Murphy, JG, **Dell'Acqua, ML** (2012) AKAP79/150 regulates signaling from dendritic spines to the nucleus through recruitment of protein kinase A and calcineurin to the L-type voltage-gated calcium channel. Program No. 239.05 Abstract Viewer. New Orleans, LA, Society for Neuroscience.
29. Dittmer, PJ, Sather, WA, **Dell'Acqua, ML** (2012) AKAP79/150 anchored PKA and calcineurin are critical components in calcium-dependent inactivation of neuronal L-type calcium channels. *Biophys J.* 102: 127a-128a
30. Youn, D, Oliveria, SF, **Dell'Acqua, ML**, Sather, WA (2012) Ser1928 is required for regulation of in calcium-dependent inactivation of Ca_v1.2 L-type calcium channels. *Biophys J.* 102:128
31. Freund, R.K., Potter, H., **Dell'Acqua, M.L.** (2014) Amyloid beta inhibition of long-term potentiation may involve block of Eg5 motor protein. Program No. 133.02. Abstract Viewer. Washington, DC, Society for Neuroscience
32. Woolfrey, K.M., Sanderson, J.L., **Dell'Acqua, M.L.** (2014) Palmitoylation of AKAP79/150 by the palmitoyl acyltransferase DHHC2 controls synaptic potentiation.. Program No. 505.09. Abstract Viewer. Washington, DC, Society for Neuroscience
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34. Chen, X., Feng, A., Crosby, K., Purkey, A., Winters, C., Crocker, V., Aronova, M., Leapman, R., Reese, T., **Dell'Acqua, M.** (2016) Distinct Molecular Conformations of AKAP79/150 in hippocampal spine synapses. Program No. 589.03 Abstract Viewer. San Diego, CA, Society for Neuroscience.
35. Purkey, A.M., Woolfrey, K.M., Crosby, K.C., Stich, D.G., Chick, W.S., Aoto, J., **Dell'Acqua, M.L.** (2018) AKAP150 palmitoylation regulates synaptic incorporation of Ca²⁺-permeable AMPA receptors to control LTP. Program No. Abstract Viewer. San Diego, CA, Society for Neuroscience.

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1. **Dell'Acqua, M.L.** (2002) Imaging a ternary kinase-AKAP-phosphatase signaling complex in living cells using FRET microscopy. Keystone Symposium on Protein Phosphorylation and Mechanisms of Cellular Regulation. Abstract# 221. Oral Presentation and Poster.
2. Gorski, J.A., Gomez, L.L., Alam, S., Bishop, A., Scott, J.D., **Dell'Acqua, M.L.** (2003) AKAP79 binding to cadherins: polarized targeting of a kinase-phosphatase signaling scaffold to cell-cell contacts in neurons and epithelial cells. Keystone Symposium on Signaling via Cell-Cell Interactions. Abstract#119. Oral Presentation and Poster.
3. Smith, K.E., Oliveria, S.F., Horne, E., Giobson, E.S., and **Dell'Acqua, M.L.** (2004) NMDA Receptor-PP2B Pathways Implicated in LTD Induce Loss of AKAP79/150 and Anchored PKA-RII from Synapses. FASEB Summer Research Conference on Protein Phosphatases. Snowmass, CO. Abstract#46. Oral Presentation and Poster.
4. Hudson, H.R., Gibson, E. S., Benke, T.A., **Dell'Acqua, M.L.** (2005) Role of A Kinase Anchoring Protein 79/150 (AKAP79/150) in Dendritic Spine Formation. Gordon Research Conference on Excitatory Amino Acids. Aussois, France. Poster.
5. Gorski, J.A., Gomez, L.L., Scott, J.D., **Dell'Acqua, M.L.** (2005) Association of an AKAP Signaling Scaffold with Cadherin Adhesion Molecules in Neurons and Epithelial Cells. American Society for Cell Biology Annual Meeting. San Francisco, CA. Plenary presentation.
6. Horne, EA and **Dell'Acqua, M.L.** (2006) Regulation of AKAP79 Dendritic Spine Targeting by Phospholipase C Gordon Research Conference on Cell Biology of the Neuron New London, NH. Poster.

7. Hudson, HR, Gibson, E.S., Benke, T.A., **Dell'Acqua, M.L.** (2006) Regulation of Postsynaptic Structure and Function by an AKAP-MAGUK Interaction. Gordon Research Conference on Cell Biology of the Neuron New London, NH. Poster.
8. Oliveria, SF, Ohrtman, J., Gibson, E.S., Sather, W.A., **Dell'Acqua, M.L.** (2006) Regulation of Neuronal L-type Ca²⁺ channels by AKAP-anchored PKA and Calcineurin. FASEB Summer Research Conference on Protein Phosphatases. Snowmass, CO. Oral Presentation and Poster.
9. Oliveria, SF, Sather, WA, **Dell'Acqua, M.L.** (2008) Localized Calcineurin Signaling Confers Ca²⁺-dependent Inactivation upon Neuronal L-type Ca²⁺ Channels. FASEB Summer Research Conference on Protein Phosphatases. Snowmass, CO. Oral Presentation and Poster.
10. Pink, MD, Oliveria, SF, Sather, WA, **Dell'Acqua, M.L.** (2008) Dynamic Anchoring of Calcineurin to the Postsynaptic Scaffold Protein AKAP79/150 Controls Neuronal L-type Ca²⁺ Channel Signaling to NFAT and CREB in the Nucleus. FASEB Summer Research Conference on Calcium and Cell Function. Snowmass, CO. Oral Presentation and Poster.
11. Sanderson, JL, Freund, RK, Gibson, ES, Smith, KE, Chick, W, **Dell'Acqua, M.L.** (2009) Regulation of Excitatory Synaptic Plasticity by postsynaptic Anchoring of Calcineurin. Gordon Research Conference on Excitatory Synapses and Brain Function. Les Diablerets, Switzerland. Poster Presentation.
12. Robertson, HR, Keith, DL, Gibson, ES, El-Husseini, A, **Dell'Acqua, M.L.** (2009) Dynamic Regulation of AKAP79/150 Targeting to Dendritic Spines by Palmitoylation. Gordon Research Conference on Excitatory Synapses and Brain Function. Les Diablerets, Switzerland. Poster Presentation.
13. Keith, D, Gibson, ES, Robertson, HR, Sanderson, JL, Kang, R, **Dell'Acqua, ML** (2010) AKAP79/150 palmitoylation is required for endosomal localization and regulation of postsynaptic structure and function. Gordon Research Conference on Cell Biology of the Neuron. Waterville Valley, NH. Invited Short talk and Poster Presentation.
14. Sanderson, JL, Gibson, ES, Freund, RK, Smith, KE, Chick, W, **Dell'Acqua, ML** (2010) Mice deficient in AKAP150-Calcineurin anchoring have altered hippocampal synaptic plasticity. Gordon Research Conference on Cell Biology of the Neuron. Waterville Valley, NH. Poster Presentation.
15. Keith, DJ, Sanderson JL, Gibson, ES, Robertson, HR, Woolfrey, K, Olszewski, K, Kang, R, El Husseini, A, **Dell'Acqua, ML** (2011) Palmitoylation of an AKAP Scaffold Protein Regulates Dendritic Endosomal Targeting and Synaptic Plasticity Mechanisms. Gordon Research Conference on Excitatory Synapse and Brain Function. Easton, MA. Poster Presentation.
16. **Dell'Acqua, ML**, Sanderson, J, Gibson, E, Freund, R, Smith, K, Chick, W (2011) Regulation of AMPA Receptor Trafficking and Synaptic Plasticity by an AKAP-Calcineurin Signaling Complex” in session on “Ion Channel Trafficking” FASEB Summer Conference on Ion Channel Regulation, Steamboat Springs, CO. Oral Presentation and Poster.
17. Sather, WA, Oliveria, SF, **Dell'Acqua, ML** (2011) Localized Calcineurin in Calcium-dependent Inactivation of L-type Ca²⁺ Channels. FASEB Summer Conference on Ion Channel Regulation, Steamboat Springs, CO. Oral Presentation by WA Sather.
18. Murphy, JG, **Dell'Acqua, ML** (2011) Visualizing the Regulation of L-type Calcium Channel-dependent Dendrite to Nucleus Signaling by AKAP79/150. FASEB Summer Conference on Ion Channel Regulation, Steamboat Springs, CO. Poster Presentation.
19. Dittmer, PJ, Sather, WA, **Dell'Acqua, ML** (2012) AKAP79/150 anchored PKA and calcineurin are critical components in calcium-dependent inactivation of neuronal L-type calcium channels. FASEB Summer Conference on Calcium and Cell Function, Snowmass, CO. Poster Presentation and Oral Presentation.
20. Murphy, JG, **Dell'Acqua, ML** (2012) An AKAP79/150::L-type voltage-gated calcium channel complex regulates postsynaptic signaling to the transcription factor NFAT.

- FASEB Summer Conference on Calcium and Cell Function, Snowmass, CO. Poster Presentation.
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