

CURRICULUM VITAE
COREY BRYANT SMITH

PERSONAL

Birth date: August 6, 1969
Place of Birth: Palo Alto, CA U.S.A.
Citizenship: United States of America

Institutional Address:

Department of Physiology and Biophysics
Case Western Reserve University
2109 Adelbert Road
Cleveland, OH 44106-4970

EDUCATION AND APPOINTMENTS

1987 - 1991: Bachelor of Science in Zoology, University of Wisconsin, Madison
Wisconsin.

1991 - 1996: Doctor of Philosophy in Neuroscience, University of Colorado Health
Science Center (U.C.H.S.C.), Denver Colorado.

1996 - 1998: Postdoctoral Research Fellowship, Max-Planck-Institute for Biophysical
Chemistry, Department of Membrane Biophysics, Göttingen Germany.

1998 - 2000: Assistant Professor, Department of Physiology and Endocrinology, Medical
College of Georgia, Augusta GA.

2001 - 2007: Assistant Professor, Department of Physiology and Biophysics, Case
Western Reserve University, Cleveland OH.

2007 - Present, Associate Professor, Department of Physiology and Biophysics, Case
Western Reserve University, Cleveland OH.

PUBLICATIONS

C.B. Smith and W.J. Betz (1996) Simultaneous independent measurement of exocytosis
and endocytosis. **Nature**, 380:531-534.

W.J. Betz , F. Mao and **C.B. Smith** (1996) Imaging exocytosis and endocytosis. **Current
Opinion in Neurobiology**, 6:365-371.

C. Smith and E. Neher (1997) Multiple forms of endocytosis revealed in bovine adrenal
chromaffin cells. **Journal of Cell Biology**, 139(4):875-894.

C. Smith, T. Moser, T. Xu, and E. Neher (1998) Cytosolic Ca²⁺ acts by two separate
pathways to modulate the supply of release-competent vesicles in chromaffin cells.
Neuron, 20(6):1243-53.

Corey Smith (1999) A persistent activity-dependent facilitation in chromaffin cells is due

to Ca²⁺-dependent activation of protein kinase C. **Journal of Neuroscience**, 19(2):589-598.

Shyue-An Chan and **Corey Smith** (2001) Physiological Stimuli Evoke Two Forms Of Endocytosis In Chromaffin Cells. **Journal of Physiology (London)**, 537.3, 871-885.

Shyue-An Chan, Robert H. Chow and **Corey Smith**. (2003, Published online Dec. 10, 2002) Calcium dependence of action potential-induced endocytosis in chromaffin cells. **Pflügers Archiv – European Journal of Physiology**, 445, 540-546.

Shyue-An Chan and **Corey Smith** (2003) Low frequency stimulation of mouse adrenal slices reveals a clathrin-independent, protein kinase C-mediated endocytic mechanism. **Journal of Physiology (London)**, 553.3, 707-717.

Shyue-An Chan, Luis Polo-Parada and **Corey Smith** (2005) Action potential stimulation reveals a preferential P/Q-calcium channel dependent exocytosis in mouse adrenal tissue slices. **ABB**, 435,1,65-73.

Shyue-An Chan, Luis Polo-Parada, Lynn Landmesser and **Corey Smith** (2005) Adrenal chromaffin cells exhibit impaired granule trafficking in NCAM knockout mice. **Journal of Neurophysiology** 2005;94 1037-1047.

Tiberiu Fulop, Stephen Radabaugh and **Corey Smith** (2005) Activity-dependent differential transmitter release in mouse adrenal chromaffin cells. **Journal of Neuroscience** 2005 25: 7324-7332.

Ronghua ZhuGe, Valerie DeCrescenzo, Vincenzo Sorrentino, Tony Lai, Richard A. Tuft, **Corey Smith**, Kevin E. Fogarty and John V. Walsh, Jr. (2006) Syntillas release Ca²⁺ at a site different from the microdomain where exocytosis occurs in mouse chromaffin cells. **Biophysical Journal** 90:2027-2037.

Tiberiu Fulop and **Corey Smith** (2006) Physiological Stimulation Regulates Fusion Pore Dilation Through Calcium activation of Protein Kinase C in Mouse Chromaffin Cells. **Biochemical Journal** 399(1):111-9

Luis Polo-Parada, Shyue-An Chan and **Corey Smith** (2006) An activity-dependent increased role for L-type calcium channels in exocytosis from mouse adrenal chromaffin cells. **Neuroscience** 143(2):445-59.

Hong Wang, Shyue-an Chan, David Hellard, Qifang Wang, Michael Ogier, **Corey Smith** and David M. Katz (2006) Altered Neurosecretory Function in a Mouse Model of Rett Syndrome. **Journal of Neuroscience** 26(42):10911-5.

Barbara A. Kuri, Shakil A. Khan, Shyue-An Chan, Nanduri R. Prabhakar, and **Corey Smith** (2007) Increased Secretory Capacity of Mouse Adrenal Chromaffin Cells By Intermittent Hypoxia: Involvement of Protein Kinase C. **Journal of Physiology (London)** 584: 313-319.

Tiberiu Fulop and **Corey Smith** (2007) Matching Native Electrical Stimulation By Graded Chemical Stimulation In Isolated Mouse Adrenal Chromaffin Cells. **Journal of Neuroscience Methods** 166(2): 195-202.

Bryan Doreian, Tiberiu Fulop and **Corey Smith** (2008) Myosin II activation and actin re-organization regulate the mode of quantal exocytosis in mouse adrenal chromaffin cells. **Journal of Neuroscience** 28(17):4470-4478.

Tiberiu Fulop, Bryan Doreian and **Corey Smith** (2008) Dynamin I plays dual roles in the activity-dependent shift in exocytic mode in mouse adrenal chromaffin cells. **ABB** 1:477(1): 146-154.

Barbara Kuri, Shyue-An Chan and **Corey Smith** (2009) PACAP regulates immediate catecholamine release from adrenal chromaffin cells in an activity dependent manner through a protein kinase C-dependent pathway. **Journal of Neurochemistry**. 110(14):1214-25.

Thomas Ladas, Shyue-An Chan, Michael Ogier, **Corey Smith** and David Katz (2009) Enhanced Dense Core Granule Function and Adrenal Hypersecretion in a Mouse Model of Rett Syndrome. **European Journal of Neuroscience**. 30(4):602-10.

Dangjai Souvannakitti, Barbara Kuri, Anita Pawar, Ganesh K. Kumar, **Corey Smith**, Aaron P. Fox and Nanduri R. Prabhakar (2010) Impaired neuronal nicotinic receptor function and expression in neonatal intermittent hypoxia treated adrenal chromaffin cells. **American Journal of Physiology – Cell Physiology**. 299(2):C381-8..

Shyue-An Chan, Bryan Doreian, **Corey Smith** (2010) Dynamin and myosin regulate differential exocytosis from mouse adrenal chromaffin cells. **Cellular and Molecular Neuroscience**. 30(8):1351-7.

Jackie Hill, Shyue-An Chan, Barbara Kuri, **Corey Smith** (2011) PACAP elicits stress-evoked catecholamine secretion by augmentation of a T-type calcium current in mouse adrenal chromaffin cells. **Journal of Biological Chemistry**. 286(49):42459-69.

Shyue-An Chan, Jackie Hill, **Corey Smith** (2012) Tonic protein kinase C activity decreases calcium current density and indicates decreased secretory output from female mouse adrenal chromaffin cells. **Cell Calcium**. Published online April 30 2012.

Jackie Hill, Seong-Ki Lee, Prattana Samasilp and **Corey Smith** (2012) Pituitary Adenylate Cyclase-Activating Peptide (PACAP) enhances electrical coupling in the mouse adrenal medulla. **American Journal of Physiology – Cell Physiology**. 303(3):C257-66.

Corey B. Smith and Lee E. Eiden (2012) Is PACAP the major neurotransmitter for stress transduction at the adrenomedullary synapse? **Journal of Molecular Neuroscience**. Published online May 18, 2012.

Prattana Samasilp, Shyue-An Chan, **Corey Smith** (2012) Activity-dependent fusion pore expansion regulated by a calcineurin-dependent dynamin-syndapin pathway in mouse adrenal chromaffin cells. **The Journal of Neuroscience**. 32(30):10438-47.

Nikolas Stroth, Barbara Kuri, Tomris Mustafa, Shyue-An Chan, **Corey Smith** and Lee Eiden (2013) PACAP is the major stimulus for catecholamine secretion from male adrenal glands at high splanchnic nerve firing rates characteristic of stress transduction. **Endocrinology**. 154(1):330-9.

BOOK CHAPTERS AND INVITED ARTICLES

Corey Smith (2004) Fast amperometric detection of catecholamine release from single chromaffin cells. Action Potentials, vol. 13, ALA Scientific.

GRANTS AND AWARDS

1996-1997: Deutsche Forschungsgemeinschaft S.F.B. 406: Postdoctoral Research Fellowship.

1998-1999: Max-Planck Society: Postdoctoral Research Fellowship.

1999-2000: Biological Research Support Grant (BRSG).

1999-2000: Medical College of Georgia Research Institute Grant (MCGRI).

2000-2002: Alfred P. Sloan Foundation Neuroscience Research Fellowship.

2000-2004: National Science Foundation Division of Integrative Biology and Neuroscience, Neuronal and Glial Mechanisms. IBN-0196136. "Optical and electrical monitoring of facilitation mechanisms in chromaffin cells." P.I. Corey Smith.

2004-2009: National Science Foundation Division of Integrative Biology and Neuroscience, Neuronal and Glial Mechanisms. IBN-0344768. "Mechanisms of endocytosis in chromaffin cells." P.I. Corey Smith. Total costs \$601,679.

2005-2011: National Institutes of Health, NINDS. 1R01NS052123. "Mechanisms of the adrenal medulla stress response." P.I. Corey Smith. Total costs \$1,263,429.

2011 – 2016: National Institutes of Health, NIGMS. 1R01GM3637. "Regulation of caspase-1 signaling and inflammation by the P2X7ATP receptor." P.I. Dubyak (Co-Investigator: Smith, 10% effort).

2012 – 2016: National Institutes of Health, NIGMS. 1R01GM102191. "Molecular control of peptide exocytosis.: P.I. Smith. Total costs \$1,158,544.

SCIENTIFIC SOCIETIES

1994-present: The Society for Neuroscience.

1999-2002: The American Association for the Advancement of Science.

1997-Present: The Biophysical Society.

TEACHING EXPERIENCE

Updated: February 11, 2013

1992: Lab instructor; Graduate level Cellular Neurobiology Laboratory. U.C.H.S.C.

1994: Lab instructor; Graduate level Cellular Neurobiology Laboratory. U.C.H.S.C.

1994: First year medical school Neurobiology tutor for U.C.H.S.C. Center for Multicultural Enrichment (CFME). U.C.H.S.C.

1995: Lab instructor; Graduate level Cellular Neurobiology Laboratory. U.C.H.S.C.

1996-1998: Lecturer; Graduate level Physiology, University of Edinburgh, Edinburgh Scotland.

1998: Lab instructor; Graduate level animal physiology techniques course, Department of Membrane Biophysics, Max-Planck Institute for Biophysical Chemistry and University of Göttingen Medical School.

1999-2000: Lecturer; Medical School Neuroscience Course (ITD 5170), Medical College of Georgia.

2000: Lecturer; Graduate School Core Course (SGS 8030), Medical College of Georgia.

2000: Lecturer; Graduate School Endocrinology Course (ENDO 8200), Medical College of Georgia.

2000: Course Director; Graduate School Laboratory Rotations, Medical College of Georgia.

2004: Faculty, Neurobiology Course; Marine Biological Laboratory, Woods Hole MA.

2002 - Present: Lecturer; Graduate Membrane Physiology PHOL 468, Case Western Reserve University (Course Director: 2005-present).

2002 - Present: Lecturer; Graduate Techniques in Physiological Sciences PHOL 530, Case Western Reserve University.

2002 - 2005: Instructor; Neuromuscular Committee - Homeostasis I SOM, Case Western Reserve University

2003 – 2006: Lecturer; Microscopy for Biologists PHOL 517, Case Western Reserve University

2004 – Present: Course Director and Lecturer; Cell Biophysics PHOL 476, Case Western Reserve University

2006 – Present: MSG Leader; Block 2 – 1st Year Medical Curriculum, Case Western Reserve University

2006 – Present: MSG Leader; Block 4 – 1st Year Medical Curriculum, Case Western Reserve University

2008 - Present: Faculty Research Mentor, Undergraduate Summer Medical and Dental Education Program (SMDEP), Case Western Reserve University School of Medicine.

2011 – Present: Lecturer, Medical Physiology, Masters in Medical Physiology Graduate Program, Department of Physiology and Biophysics, Case Western Reserve University.

2011 – Present: Lab Facilitator, Medical Physiology, Masters in Medical Physiology Graduate Program, Department of Physiology and Biophysics, Case Western Reserve University.

STUDENTS AND POSTDOCTORAL FELLOWS MENTORED

Students and Postdoctoral Fellows:

1997-1998: Lars Windhorn, Diplom candidate (German equivalent to a Masters in Science degree). Max-Planck Institute for Biophysical Chemistry, Department of Membrane Biophysics, Göttingen, Germany.

1999-Present: Shyue-An Chan, Ph.D., Postdoctoral Fellow/Senior Research Associate, Department of Physiology and Endocrinology, Medical College of Georgia and Case Western Reserve University

2000: Jordan Estroff, Department of Physiology, Medical College of Georgia. Graduated from Washington University, St. Louis MO.

2001: Erin Strome, Undergraduate SURP program – Miami University of Ohio. (Currently Assistant Professor, University of Northern Kentucky).

2001: Philip Kaplan (undergraduate), Department of Physiology and Biophysics, Case Western Reserve University.

2001-2003: Xiaofeng Yu, Department of Physiology and Biophysics, Case Western Reserve University (Masters Degree).

2002-2004: Steven Radabaugh, Department of Physiology and Biophysics, Case Western Reserve University (Masters Degree).

2004 – 2009: Tiberiu Fulop, Postdoctoral Fellow, Department of Physiology and Biophysics, Case Western Reserve University

2004-2008: Anita Pawar, Graduate Student (Co-advisor), Department of Physiology and Biophysics, Case Western Reserve University.

2004; 2005: Katherine Trueblood, Undergraduate Summer Research Program. Geneva College, Beaver Falls PA. Fall 2006, entering the graduate program in Cell Physiology, Department of Physiology and Biophysics, Case Western Reserve University.

2006 – 2009: Bryan Doreian, Graduate Student, Department of Physiology and Biophysics, Case Western Reserve University.

2006 – 2009: Barbara Kuri, Graduate Student, Department of Physiology and Biophysics, Case Western Reserve University; 2007, Predoctoral Fellowship, AHA (Declined); 2008 Honorable Mention, Case Research Showcase.

2006 – 2008: Thomas Ladas, MSTP student, department of Biomedical Engineering, Case Western Reserve University. Co-advisor.

2007: Laura Hazen, Student, Lowell High School, Biomedical Science Research Internship.

2008 – 2012: Jacqueline Hill, Graduate Student, Department of Physiology and Biophysics, Case Western Reserve University; 2010-2012 Predoctoral Fellowship, AHA. Travel Grant award to attend the 56th annual meeting of the Biophysical Society, Baltimore MD.

2009 – Present: Prattana Samasilp, Graduate Student, Department of Physiology and Biophysics, Case Western Reserve University; 2011 Student Research Achievement Award winner at the 55th annual meeting of the Biophysical Society, Baltimore MD; 2012 Student Research Achievement Award winner at the 56th annual meeting of the Biophysical Society, San Diego, CA.

2010: Kiara Vann, Undergraduate SURP student, Winston-Salem State University. Winston-Salem NC.

2011: Adrienne Bean, Undergraduate SURP student, Vanderbilt University, Nashville, TN.

2011-2012: Sunil Iyer, Masters Student, Masters in Medical Physiology, Department of Physiology and Biophysics, Case Western Reserve University.

2012: Angelique Do, Masters Student, Masters in Medical Physiology, Department of Physiology and Biophysics, Case Western Reserve University.

2012 - Present: Neil Goldsmith, Graduate Student, Department of Physiology and Biophysics, Case Western Reserve University.

Graduate Thesis Committee Service:

2001: Sydney Pit Thang.
2001 - 2007: James Conway.
2001 - 2003: Theresa Fagan.
2002 - 2003: Xiaofeng Yu.
2002 - 2004: Stephen Radabaugh.
2003: Amy Nulton-person.
2003-2004: Anna Dang.
2003-2008: Radu Iancu.
2003-2004: Carl Sims.
2003-2007: Amr El-Toukhy.
2004-2009: Mark Breckenridge.

2004-2010: Toni Prosdocimo.
2004-2007: Aaron Brister.
2005-2012: Jordan Beach.
2005-2010: Andrew Blum.
2005-2009: Michelle Biedelschies.
2005-2009: Nick Cianciola.
2006-2007: George Aranjuez.
2007-2012: Andrew Caprariello.
2007-2013: Kyle Lopin.
2007-present: Quentin Jameson.
2007-2011: Katherine Trueblood-Doreian.
2007-2011: Jane Kim.
2007-2009: E. Chep Yego.
2009-present: Ross Anderson.
2010-present: Drew Nasal.
2010-present: Sheela Toprani.
2010-present: Austin Cooley.

Graduate Student Lab Rotations:

2001: Xiaofeng Yu - Cell Physiology Program, Department of Physiology and Biophysics, Case Western Reserve University

2001: Michelle Innocenti (Biedelschies) - Cell Physiology Program, Department of Physiology and Biophysics, Case Western Reserve University

2001: Stephen Radabaugh - Cell Physiology Program, Department of Physiology and Biophysics, Case Western Reserve University

2002: Kristin King - Systems Physiology Program, Department of Physiology and Biophysics, Case Western Reserve University

2004: Nikolas Balanis - Biophysics Program, Department of Physiology and Biophysics, Case Western Reserve University

2005: Anita Pawar - Systems Physiology Program, Department of Physiology and Biophysics, Case Western Reserve University

2005: David Chess - Systems Physiology Program, Department of Physiology and Biophysics, Case Western Reserve University

2005: Liang Xu - Biophysics Program, Department of Physiology and Biophysics, Case Western Reserve University

2005: Barbara Kuri - Cell Physiology Program, Department of Physiology and Biophysics, Case Western Reserve University.

2006: Kyle Lopin - Biophysics Program, Department of Physiology and Biophysics, Case Western Reserve University.

2006: Thomas Ladas - Medical Sciences Training Program (MSTP), School of Medicine, Case Western Reserve University.

2008: Jacqueline Hill - Cell Physiology Program, Department of Physiology and Biophysics, Case Western Reserve University.

2008: Robert Mecklemburg - Biophysics Program, Department of Physiology and Biophysics, Case Western Reserve University.

2008: Pratanna Samasilp - Cell Physiology Program, Department of Physiology and Biophysics, Case Western Reserve University.

2009: Zienab Etwabi – Cell Physiology Masters Program, Department of Physiology and Biophysics, Case Western Reserve University.

2011: Nicholas Courtney, Department of Physiology and Biophysics, Case Western Reserve University.

2011: Sam Chai, Department of Physiology and Biophysics, Case Western Reserve University.

2012: Neil Goldsmith, Department of Physiology and Biophysics, Case Western Reserve University.

2012-2013: Amrita Samanta, Department of Physiology and Biophysics, Case Western Reserve University.

SERVICE

Institutional:

1999-2000: Subcommittee member; Committee on Animal Use for Research and Education, Medical College of Georgia.

1999-2000: Committee member; Graduate Curriculum Committee, Medical College of Georgia.

1999-2000: Committee member; Biological Systems Analysis organizational committee, Medical College of Georgia.

1999-2000: Committee member; Judging committee for Graduate Student Research Day presentations, Medical College of Georgia.

2000-2000: Committee member; Dept. of Physiology and Endocrinology faculty search committee member, Medical College of Georgia.

2000-2000: Committee member; Dept. of Physiology Chair's advisory committee, Medical College of Georgia.

2000: Committee member; Interdisciplinary Research Building, Phase II architectural committee. Medical College of Georgia.

2001-2002: Seminar Series Coordinator, Biophotonics Seminar Series, Case Western Reserve University.

2001-2010: Committee for Appointments, Promotions and Tenure. Department of Physiology and Biophysics, Case Western Reserve University.

2002-2008: Common Equipment Coordinator, Chair of Facilities Committee, Department of Physiology and Biophysics, Case Western Reserve University.

2004-Present: Graduate Education Committee, Department of Physiology and Biophysics, Case Western Reserve University.

2005-Present: Graduate Admissions Committee, Department of Physiology and Biophysics, Case Western Reserve University.

2008 - 2010: School of Medicine Faculty Council/Steering Committee, Case Western Reserve University

2008 - 2011, Search Committee, Department of Physiology and Biophysics, Case Western Reserve University.

2008 - Present: Director, Cell Physiology Graduate Program, Department of Physiology and Biophysics, Case Western Reserve University.

2009 – 2012: School of Medicine Committee on Appointments, Promotions and Tenure, Case Western Reserve University.

2010-Present: Faculty Mentor Committee: Dr. Chris Ford, Department of Physiology and Biophysics, Case Western Reserve University.

2010-Present: Faculty Mentor Committee: Dr. Rajesh Ramachandran, Department of Physiology and Biophysics, Case Western Reserve University.

National/International:

2003-Present: Organizational Committee, Exocytosis-Endocytosis Subgroup, The Biophysical Society.

2010-2011: Organizer/Platform Chair, 16th ISCCB, Beijing China.

2011: Chair-Elect, Exocytosis-Endocytosis Subgroup, The Biophysical Society.

2011-2012: International Advisory Board, 17th ISCCB, Paris France.

2012: Chair, Exocytosis-Endocytosis Subgroup, The Biophysical Society.

JOURNAL MANUSCRIPT REVIEWS

Analytical Chemistry, Archives of Biochemistry and Biophysics, BBA - Molecular Cell Research, Biochemical Journal, Biophysical Journal, Cell Calcium, Cell Research,

Circulation Research, Developmental Biology, European Journal of Neuroscience, Journal of Cell Biology, Journal of Cell Science, Journal of General Physiology, Journal of Membrane Biology, Journal of Neuroendocrinology, Journal of Neurochemistry, Journal of Neurophysiology, Journal of Neuroscience, Journal of Physiology (London), Nature, Neuron, Neuroscience, Molecular Biology of the Cell, Molecular Cell Biology, Science.

EDITORIAL BOARDS AND PEER REVIEW COMMITTEES

- 1999 – 2000: AdHoc reviewer, National Science Foundation IBN
- 2002: Human Resources Advisory Group, Medical Research Council, London, England.
- 2003 – Present: American Heart Association Ohio Valley Division Study Section 4B.
- 2003 – 2012: Editorial Board, Archives of Biochemistry and Biophysics
- 2004, 2008: Human Resources Advisory Group, Medical Research Council, London, England.
- 2005: NIH, BSCT Scientific Review Group Special Emphasis Panel.
- 2006: NIH, BSCT Scientific Review Group Special Emphasis Panel.
- 2007: NIH, Ad-Hoc reviewer MBPP Scientific Review Group.
- 2008: Israel Science Foundation (ISF) Scientific Review Group.
- 2009: NIH, MDCN-N Scientific Review Group Special Emphasis Panel.
- 2010: NIH, MDCN-N Scientific Review Group Special Emphasis Panel.
- 2010: NIH, BPNS-N Scientific Review Group Special Emphasis Panel.
- 2011: Reviewer, Talis, Hellenic Republic Ministry of Education, Lifelong Learning and Religious Affairs (Greek National Research Projects Evaluation).
- 2011: NIH, Chair, MDCN-N Scientific Review Group Special Emphasis Panel.
- 2011: NIH VH-C Scientific Review Group Special Emphasis Panel.
- 2011: Editor, Special Issue on Physiology of the Stress Response, Elsevier Publishing: Archives of Biochemistry and Biophysics
- 2012: NIH IPOD Scientific Review Group.

INVITED ORAL PRESENTATIONS

- 1995: Dept. Membrane Biophysics, Max-Planck-Institute for Biophysical Chemistry, Göttingen Germany.

1995: Dept. Cell Research, Max-Planck-Institute for Medical Research, Heidelberg Germany.

1996: Dept. Physiology, University of Edinburgh School of Medicine, Edinburgh Scotland.

1997: 25th Göttingen Neurobiology Conference. HEKA Elektronik GmbH, "Patch Clamp with PULSE" symposium lecture on practical combined electrophysiology and fluorometric data acquisition.

1997: Co-Chair; Exocytosis and Endocytosis Symposium, 42nd Annual Meeting of the Biophysical Society.

1998: Dept. Electrical Engineering, University of Missouri, Columbia Missouri.

1998: Dept. Neurophysiology, University of Wisconsin, Madison Wisconsin.

1998: Dept. Physiology and Biophysics, University of Colorado, Denver Colorado.

1998: Dept. Physiology and Endocrinology, Medical College of Georgia, Augusta Georgia.

1998: Dept. Physiology, University of Edinburgh School of Medicine, Edinburgh Scotland.

2000: National Institutes of Health, NINDS, Bethesda Maryland.

2001: University of Southern California, Los Angeles California.

2001: Vollum Institute, Portland Oregon.

2002: Department of Neurosciences, Case Western Reserve University.

2002: Department of Neurobiology and Anatomy, Medical College of Ohio

2003: Rammelkamp Center for Research, MetroHealth Medical Center

2003: Department of Biology, Geneva College.

2004: Marine Biological Institute, Woods Hole, MA.

2004: The Cleveland Clinic Foundation, Department of Cell Biology, Cleveland, OH.

2005: Molecular Mechanisms of Exocytosis and Endocytosis, The University of Edinburgh, Edinburgh Scotland.

2005: Neurosciences Program, UCHSC, Denver CO.

2006: Department of Physiology, University of Saarland, Homburg Germany.

2006: Department of Membrane Biophysics, Max Planck Institute for Biophysical Chemistry, Göttingen Germany.

2006: The Physiological Institute, University of Wurzburg, Wurzburg Germany.

2006: The Center for Proteomics, Case Western Reserve University

2007 Pharmacology Graduate Program, University of Saarland, Homburg Germany.

2007: The 9th International Neuroscience Winter Conference. Sölden Austria

2007: Department of Pharmacology, Vanderbilt University. Nashville Tennessee

2007: Department of Physiology and Biomedical Engineering, Mayo Clinic, Rochester MN.

2007: Department of Neurobiology and Behavior, SUNY Stony Brook, Stony Brook NY.

2007: 14th ISCCB (International Symposium for Chromaffin Cell Biology), Sestre Levante, Italy.

2007: Department of Biology, Allegheny College, Meadville PA.

2008: Section of Emergency Medicine. University of Chicago, Chicago IL.

2009: 15th ISCCB, Merida, Mexico.

2010: Australian Physiological Society/Australian Neuroscience Society, Sydney Australia.

2010: Satellite Meeting of the Joint Australian Physiological Society/Australian Neuroscience Society Meeting, Mini Symposium "New Directions in Membrane Trafficking (Plenary Lecture). University of Western Sydney, Cambelltown Australia.

2010: Department of Physiology, University of Massachusetts Medical School, Worcester, MA.

2010: Department of Molecular and Integrative Physiology, University of Michigan Medical School, Ann Arbor, MI.

2011: Department of Physiology and Biophysics, University of Arkansas Medical Center.

2011: 16th ISCCB. Beijing China.

2011: BIT Life Sciences' 4th Annual Proteins and Peptide Conference:: New Leaders in Protein and Peptide Science. Beijing China.

2011: NIH National Institute for Mental Health, Bethesda MD.

2012: MetroHealth Research Center, Cleveland, OH.

2012: XICS Meeting, Asilomar, CA.

ABSTRACTS

C. Smith and W. Betz (1994) Bovine adrenal chromaffin cells internalize the dye FM1-43 in an activity dependent manner. Society for Neuroscience, 297.11.

C. Smith and W. Betz (1995) Simultaneous fluorescence microscopy and capacitance measurements in bovine adrenal chromaffin cells. Society for Neuroscience, 138.2.

C. Smith and E. Neher (1996) Multiple forms of endocytosis revealed in capacitance recordings in bovine adrenal chromaffin cells. 25th Göttingen Neurobiology conference, Abs. #992.

C. Smith and E. Neher (1997) Multiple forms of endocytosis revealed in bovine adrenal chromaffin cells. 42nd Annual Meeting of the Biophysical Society.

T. Moser*, C. Smith*, T. Xu and E. Neher (1997) Recovery of the Readily Releasable Vesicle Pool in Adrenal Chromaffin Cells is Regulated by Ca²⁺ and PKC. 42nd Annual Meeting of the Biophysical Society (* Contributed equally to the work).

C. Smith, T. Moser, T. Xu and E. Neher (1997) Recovery of the Readily Releasable Vesicle Pool in Adrenal Chromaffin Cells is Regulated by Ca²⁺ and PKC. 26th Göttingen Neurobiology conference.

V. Dinkelacker, T. Moser, C. Smith, H. v. Gersdorff and E. Neher (1998) Temperature effects on exo- and endocytosis in bovine adrenal chromaffin cells. Society for Neuroscience, 36.8.

S. Chan and C. Smith (2001) Physiological Stimuli Evoke Two Forms Of Endocytosis In Chromaffin Cells. 46th Annual Meeting of the Biophysical Society.

S. Chan and C. Smith (2002) Calcium Dependence Of Action Potential-Induced Endocytosis In Chromaffin Cells. 47th Annual Meeting of the Biophysical Society.

C. Smith and S. Chan (2002) Phase I endocytosis is dependent on PKC and PI3Kinase but not calcineurin in mouse chromaffin cells *In Situ*. Gordon Research Conference for Cell Biology of the Neuron.

Shyue-An Chan, Luis Polo-Parada, Lynn Landmesser, and Corey Smith (2004) Adrenal Chromaffin Cells Exhibit Altered Granule Size And Fusion Competence In NCAM Knockout Mice. Experimental Biology.

R. ZhuGe, V. DeCrescenzo, C. Smith, R. A. Tuft, K. E. Fogarty, and J. V. Walsh Jr. (2005) Syntillas release Ca²⁺ into a microdomain different from the site of exocytosis in mouse chromaffin cells. Biophysical Society.

Shyue-An Chan, Luis Polo-Parada, Corey Smith (2005) Action potential stimulation reveals a preferential P/Q-calcium channel dependent exocytosis in mouse adrenal tissue slices. Experimental Biology

Tiberiu Fulop, Stephen Radabaugh, Corey Smith (2005) Activity-dependent differential transmitter release in mouse adrenal chromaffin cells. CWRU Research Showcase.

Tiberiu Fulop and Corey Smith (2006) Physiological Stimulation Regulates Fusion Pore Dilation Through Calcium activation of Protein Kinase C in Mouse Chromaffin Cells. 50th Annual Meeting of the Biophysical Society.

Luis Polo-Parada, Shyue-An Chan and Corey Smith (2006) Physiological stimulation augments L-type Ca^{2+} channel-dependent exocytosis in mouse adrenal chromaffin cells. 50th Annual Meeting of the Biophysical Society.

Hong Wang, Shyue-An Chan, David Hellard, Qifang Wang, Michael Ogier, Corey Smith and David Katz. (2006) BDNF and respiratory dysfunction in MeCP2 null mice. 7th Annual Rett Syndrome Symposium.

Tiberiu Fulop and Corey Smith. (2007) Regulation of the mode of exocytosis in mouse adrenal chromaffin cells. 9th International Neuroscience Winter Conference.

Barbara Kuri, Shakil Kahn, Nanduri Prabhakar and Corey Smith (2008) Increased Secretory Capacity of Mouse Adrenal Chromaffin Cells By Intermittent Hypoxia: Involvement of Protein Kinase C. Annual Meeting for Experimental Biology

Bryan Doreian, Tiberiu Fulop and Corey Smith (2008) Myosin II activation and actin re-organization regulate the mode of quantal exocytosis in mouse adrenal chromaffin cells. Annual Meeting for Experimental Biology

Corey Smith, Shyue-An Chan and Barbara Kuri (2009) PACAP regulates immediate catecholamine release from adrenal chromaffin cells in an activity dependent manner through a protein kinase C-dependent pathway. Neuropeptides: 19th Neuropharmacology Conference Satellite Meeting of the Society for Neuroscience meeting.

Bryan Doreian, Tiberiu Fulop and Corey Smith (2009) Cortical F-Actin, the Exocytic Mode and Neuropeptide Release in Mouse Chromaffin Cells is Regulated by MARCKS and Myosin II. Neuropeptides: 19th Neuropharmacology Conference Satellite Meeting of the Society for Neuroscience meeting.

Corey Smith (2010) Activity-dependent regulation of the fusion pore and mode of secretion from adrenal chromaffin cells. ANS/AuPS 2010.

Kiara Vann, Mark Parker and Corey Smith (2010) "Differential Activation of Chromaffin Cell Isotypes in Septic Shock" Annual Biomedical Research Conference for Minority Students (ABRCMS).

Prattana Samasilp, Bryan Doreian, Shyue-An Chan and Corey Smith (2010) Activity-dependent fusion pore dilation mediated by a dynamin I-syndapin pathway. Annual Meeting of the Biophysical Society. (Winner of the Student Research Achievement Award at the 56th annual meeting of the Biophysical Society, Baltimore MD).

Jackie Hill Tudor, Shyue-An Chan and Corey Smith (2010) PACAP-evoked adrenal excitation is due to membrane depolarization and facilitation of an LVA calcium channel. Annual Meeting of the Biophysical Society. Awarded a Travel Grant to attend the 56th annual meeting of the Biophysical Society (Baltimore MD).

Shyue-An Chan, Jackie Hill, Corey Smith (2011) PACAP-dependent excitation of the adrenal medulla under the acute sympathetic stress response. 16th ISCCB.

Corey Smith, Prattana Samasilp, Bryan Doreian (2011) Molecular regulation of the fusion pore. 16th ISCCB.

Jacqueline Hill and Corey Smith (2012) Non-cholinergic acute sympathetic stress enhances gap junction coupling in the mouse adrenal medulla. 57th annual meeting of the Biophysical Society (San Diego, CA).

Prattana Samasilp, Shyue-An Chan and Corey Smith (2012) Dynamin I regulates activity-dependent fusion pore dilation via a calcineurin-dependent pathway in mouse adrenal chromaffin cells. 57th annual meeting of the Biophysical Society (San Diego, CA).