

# CURRICULUM VITAE

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## Education and Training

1980-83	B.A., Neurobiology, with Highest Honors, Univ. of Calif., Berkeley; Berkeley, CA
1984-88	M.D.; University of Southern California, School of Medicine; L.A., CA
1988-91	Residency, Internal Medicine; UCLA Center for Health Sciences; L.A., CA
1992-95	Residency, Neurology; Massachusetts General Hospital; Boston, MA
1995-97	Fellowship, Cerebrovascular Disease; Massachusetts General Hospital; Boston, MA
1995-97	M.M.Sc. (Master of Medical Sciences); Harvard Medical School; Boston, MA

## Awards and Honors

1981-83	Member U.C. Berkeley Honors Society
1982	American Heart Association Undergraduate Research Fellowship
1985-88	Joseph Collins Foundation Scholarship USC Merit Scholarship
1986	Neuroscience Award, Western Medical Student Research Forum USC Student Research Fellowship Dean's Scholar
1991	UCLA Solomon Scholar
1997	Robert G. Siekert New Investigator Award in Stroke, Honorable Mention, American Heart Association
2003	van den Noort Award for junior faculty research, UC Irvine Dept. Neurology
2004	Specialist of the Month Award, UC Irvine Primary Care Medical Group
2004	UCI Medical Center Exemplary Performance Award
2005	Nicholas Foundation Prize
2009	“Vision in Emergency Medical Services” Award, from Orange County, CA Emergency Medical Services, for work setting up Stroke Receiving Centers Elected to membership, American Neurological Association
2010	Named a “Physician of Excellence” by the Orange County Medical Association

- 2011 “Highly Commended” by the British Medical Association Medical Book Awards, for “Brain Repair after Stroke”  
Member, “Blue Ribbon Panel on Rehabilitation Research at the National Institutes of Health”, Bethesda, MD  
Chair, Rehabilitation and Recovery Committee, American Heart Association
- 2012 Outstanding Mentor Award, University of California, Irvine/ICTS  
2<sup>nd</sup> place prize winner, Plexus Journal Creative Writing Contest  
Eric Corey Raps Memorial Lecturer, Univ. of Pennsylvania, Philadelphia, PA
- 2013 Peter Jay Sharp Visiting Professor in Neurological Rehabilitation,  
Weill Cornell Medical Center, New York, NY.
- 2014 Dr. Lui Che Woo Distinguished Professorship, Chinese University of Hong Kong, China  
Chair, Stroke Task Force of the American Heart Association, Western States Affiliate  
Chair, Stroke Recovery & Rehabilitation Working Group, NIH StrokeNet
- 2015 Stoppelmoor Lecturer, University of Iowa, Dept. Neurology, Iowa City, IA
- 2017 Stroke Rehabilitation Award, given by the American Heart Association  
Honorary Membership granted, Korean Stroke Society  
2017 Robert Newcomb Interdisciplinary Team Science Award, UC Irvine/ICTS  
Elected a Fellow of the American Academy of Neurology  
Elected a Fellow of the American Heart Association  
Holan Lecturer, Cleveland Clinic, Cleveland, OH
- 2018 Barbro B. Johansson Award in Stroke Recovery, given by the World Stroke Organization, Montreal, Canada
- 2019 Presidential Lecturer, American Academy for Cerebral Palsy and Developmental Medicine  
American Congress of Rehabilitation Medicine Award for Excellence in Post-Acute Stroke Rehabilitation
- 2020 Co-Chair, NINDS/NICHHD Neurorehab Assessments and Examinations Working Group, Common Data Elements Rehabilitation Project  
Susan and David Wilstein Endowed Chair in Rehabilitation Medicine, UCLA
- 2023 Outstanding Neurorehabilitation Clinician Scientist Award (inaugural awardee), American Society of Neurorehabilitation

## Grants

- 7/95-6/97 Fellowship, Clinical Investigator Training Program, Harvard-MIT Division of Health Sciences and Technology and Pfizer Inc.
- 7/95-6/97 Principal Investigator, Career Development Fellowship Award, National Stroke Association, “Clinical and functional MRI study of recovery of motor function after stroke.”
- 4/98-10/02 Principal Investigator, Mentored Clinical Scientist Development Award, NICHHD, K08-HD1219, “Recovery from stroke: a clinical and functional MRI study.”
- 11/98-12/02 Co-Principal Investigator, Overlake Hospital Auxiliaries and Foundation Grant, “Recovery from Stroke.”
- 1/99-12/02 Co-Principal Investigator, Grant-in-Aid, American Heart Association, “Pelvic vein thrombosis as a source of paradoxical emboli in cryptogenic stroke.”

- 7/99-6/00 Principal Investigator, Pilot Research Grant, Howard Hughes Medical Institute: "Behavioral, molecular, and functional imaging assessment of stroke recovery in the rat"
- 7/99-6/01 Principal Investigator, Beginning Grant-in-Aid, American Heart Association, Northwest Affiliate, "The role of cortical plasticity in recovery from stroke."
- 9/00-8/02 Principal Investigator, Pilot Project, University of Washington Rehabilitation Network (R24-HD39629, Marjorie Anderson Principal Investigator), "Brain plasticity and disability in multiple sclerosis."
- 2/01-10/02 Principal Investigator, Pilot Research Project, National Multiple Sclerosis Society, "Changes in cortical organization following an acute demyelinating event."
- 1/02-10/02 Principal Investigator, Seattle Foundation, "A longitudinal study of compensatory changes in brain function in multiple sclerosis."
- 3/02-9/02 Principal Investigator, Vertis Neuroscience, Inc. (now Northstar Neuroscience), advisor on study "Safety of a novel method to promote recovery in patients with hemiparetic stroke."
- 4/03-6/04 Principal Investigator, College of Medicine Committee on Research and Graduate Academic Programs, UC Irvine, "Does motor cortex continue to function in patients with paraplegia?"
- 7/03-12/07 Principal Investigator, NINDS, R01 NS43310, "Safety of Autologous Marrow Stromal Cells After Stroke"
- 8/03-4/07 Principal Investigator, GlaxoSmithKline, "Randomized, Placebo-controlled, Double-blind Pilot Trial to Evaluate the Safety and Efficacy of Ropinirole in Motor Recovery after Stroke"
- 11/03-10/08 Collaborator, NICHD, N01 HD33352, "Robotics for Rehabilitation Therapy" (David Reinkensmeyer, PI)
- 1/04-12/04 Principal Investigator, Roman Reed Spinal Cord Injury Research Fund of California, "Does mental practice of foot movement improve corticospinal conduction and motor status after spinal cord injury?"
- 7/04-6/05 Co-Principal Investigator, UC Irvine Academic Senate Council on Research, Computing, and Library Resources, Multi-Investigator Faculty Research Grant MS-2004-2005-18, "Role of mitochondrial genetic variations in recovery from stroke" (Vincent Procaccio, co-PI)
- 7/04-6/05 Co-Principal Investigator, UC Irvine Academic Senate Council on Research, Computing, and Library Resources, Multi-Investigator Faculty Research Grant MS-2004-2005-10, "Mechanisms of motor rehabilitation using robot-like training and brain imaging" (David Reinkensmeyer, co-PI)
- 9/05-8/07 Principal Investigator, NIBIB, R01 EB005047, "Safety of repetitive TMS in chronic subcortical stroke"
- 6/05-5/06 Principal Investigator, Nicholas Foundation Prize, "Effect of Internet-Enabled Intense Exercise Therapy on Motor Status after Spinal Cord Injury"
- 6/05-5/06 Principal Investigator, GlaxoSmithKline, "Effect of stroke on serum levels of cytokines and endogenous anti-(anti-MAG Antibody)"
- 2/06-7/07 Principal Investigator, Stem Cell Therapeutics, as lead PI for the international multicenter trial "Safety Of Beta-hCG + Erythropoietin In Acute Stroke"
- 1/07-12/08 Principal Investigator, NIH, "Robot-Assisted Therapy For The Arm Severely Weakened After Stroke", pilot grant within R24 HD050821 "Engineering for Neurological Rehabilitation"

- 4/07-3/08 Principal Investigator, NIH, "Genetic influences on experience-dependent cortical plasticity in the elderly", pilot grant within P50 AG16573 "Alzheimer's Disease Research Center"
- 4/08-3/13 co-Principal Investigator, NIH R01 NS058755, "BDNF Genotype, Cortical Plasticity and Recovery From Stroke" (Jeffrey Kleim, overall grant PI; Steve Cramer, UCI subcontract PI)
- 10/08-9/10 co-Principal Investigator, NIH R21AT003842, "Mental Practice Impact on Gait and Cortical Organization in SCI" (Stephen Page, overall grant PI; Steve Cramer, UCI subcontract PI)
- 1/09-6/10 Principal Investigator (at UC Irvine; co-PI overall trial), Stem Cell Therapeutics, for the international multicenter trial "A Phase IIb prospective, randomized, double-blind, placebo controlled study of NTx®-265: human chorionic gonadotropin (hCG) and epoetin alfa (EPO) in acute ischemic stroke patients"
- 12/08-11/13 Principal Investigator, NIH R01 NS059909, "Motor Function after Stroke" Note: 2-year ARRA supplement (9/09 - 8/11) also awarded in relation to this Grant, as well as an NINDS Administrative Supplements for Collaborative Activities to Promote Translational Research (CAPTR, 12-1/09 - 11/30/11) and NIH Administrative Supplement (5/12-11/13)
- 1/09-10/10 Principal Investigator (overall and at UC Irvine), GlaxoSmithKline, for the international multicenter trial "A Single-Blind Study of the Safety, Pharmacokinetics and Pharmacodynamics of Escalating Repeat Doses of GSK249320 in Patients With Ischemic Stroke"
- 6/09-12/09 co-Principal Investigator, Panasonic Electronics, "Evaluation of an arm robotic device"
- 1/11-12/11 Principal Investigator, CTSA Team Building Award "Applications of Stem Cell Therapies in Clinical Neuroscience"
- 1/11-12/11 Principal Investigator, UC Irvine Conference Support Program
- 2/11-1/12 Principal Investigator, University of California Office of Research and Graduate Studies Research Opportunity Grant, "University of California Stroke Stem Cell Consortium"
- 3/12-2/13 co-Principal Investigator, CTSA Translational Collaborative Discovery Grant, "Visual rehabilitation after stroke: harnessing cortical plasticity for therapeutic interventions" (Alyssa Brewer, co-Principal Investigator)
- 5/12-6/12 Faculty Desktop Computing Initiative Award, UC Irvine
- 10/12-9/13 Principal Investigator, Dean's Triumvirate Grant "Telerehabilitation To Reduce Disability After Stroke," UC Irvine
- 8/12 - 12/15 sub-investigator, NIH R44 HD074331, "A Music-Based Rehabilitation Device For Training And Assessing Hand Function" (Nizan Friedman, overall PI)
- 9/13-8/18 Principal Investigator, NIH K24 HD074722, "Brain plasticity and rehabilitation after stroke"
- 10/13-9/18 Co-Principal Investigator, NIH U01 NS086872, "National Stroke Trial Network National Clinical Coordinating Center" (Joe Broderick overall PI)
- 3/14-6/14 Faculty Desktop Computing Initiative Award, UC Irvine
- 9/14-7/18 Principal Investigator, NIH U01 NS091951, "Telerehabilitation for Patients with Stroke"
- 4/15-3/20 Co- Principal Investigator, Calif. Inst. for Regenerative Medicine AC1-07675, "UCLA – UC Irvine Alpha Stem Cell Consortium" (John Adams, UCLA, PI)

9/15-8/20	Principal Investigator (with E. Alison Holman, multiple PI), NIH R01 NR015591, "Genetic variation, stress, and functional outcomes after stroke rehabilitation"
10/15 - 9/20	Sub-investigator, Leducq Foundation, 15CVD02, "Evoked Neuronal Activity: A New Therapy for Acute Ischemic Stroke?" (Ron Frostig PI)
8/15 - 3/19	Sub-investigator, NIH UL1 TR001414, "Institute for Clinical And Translational Science" (Dan Cooper overall PI)
9/15-8/16	Site Principal Investigator, NIH R44 HD082882, "Lever actuated rehabilitation of the arm using wheelchair propulsion and computer gaming" (Danny Zondervan, overall PI)
7/15-12/18	Principal Investigator, SanBio, "Traumatic Brain Injury Trial Training"
8/15-3/19	Principal Investigator, SanBio, "Stroke Trial Training"
1/17-12/18	Principal Investigator, American Heart Association/American Stroke Association Innovative Research Grant 17IRG33460393, "The home is the stroke clinic of the future"
9/17-12/17	Principal Investigator, Medtronic, "EEG Studies of patients with suspected stroke in the Emergency Department"
10/18-9/23	Co-Principal Investigator, NIH U01 NS086872, "National Stroke Trial Network National Clinical Coordinating Center" (Joe Broderick overall PI); competitive renewal
4/19-3/24	Principal Investigator (with An Do, Zoran Nenadic, and David Reinkensmeyer, multiple PI), NIH R01 HD095457, "Brain-Computer Interface-Functional Electrical Stimulation For Stroke Recovery"
7/19-6/24	Sub-investigator, R01 HD062744, "Effectiveness of Robot-Assisted Hand Movement Training After Stroke"
4/20-3/25	Sub-investigator, R01 NS115845, "Effects of Global Brain Health on Sensorimotor Recovery After Stroke"
9/21-8/22	Sub-investigator, VA 36C24E21P0147, "A Biomarker to Personalized Care in Post-Stroke Spatial Neglect"
8/21-7/26	Principal Investigator (with Pooja Khatri, Achala Vagal, and Cathy Stinear, multiple PI), NIH U01 NS120910, "Validation of Early Prognostic Data for Recovery Outcomes after Stroke for Future, Higher Yield Trials (VERIFY)"
12/21-11/26	Principal Investigator (with Jeff Ojemann, multiple PI), NIH UH3 NS121565, "Motor Recovery through Plasticity-Inducing Cortical Stimulation"

## Licensure and Certification

1988-92	California medical license registration
1991	<b><i>Diplomate, American Board of Internal Medicine</i></b> re-certified 2002; re-re-certified 2017-2027
1993-98	Massachusetts medical license registration
1996	<b><i>Diplomate, American Board of Psychiatry and Neurology (Neurology)</i></b> re-certified 2006, re-re-certified 2016-2026
1997-2002	Washington medical license registration
2002	California medical license registration
2005	<b><i>Diplomate, Vascular Neurology</i></b> , subspecialty of Amer Board Psych & Neurology Certified 2006, re-certified 2016-2026

## Appointments

1991-1992	Internist in private practice, Huntington Medical Group, Pasadena, CA
1993-1995	Graduate Assistant in Medicine, Massachusetts General Hospital, Boston, MA
1993-1997	Assistant in Medicine, McLean Hospital, Belmont, MA
1995-1997	Instructor in Neurology, Harvard University, Boston, MA Postdoctoral Fellow, Massachusetts Institute of Technology, Cambridge, MA
1995-1996	Clinical & Research Fellow, Massachusetts General Hospital
1996-1997	Graduate Assistant in Neurology, Massachusetts General Hospital
1997-1998	Staff Neurologist, Seattle VA, Seattle, WA
1997-2002	Assistant Professor in Neurology, University of Washington, Seattle, WA
2002-2017	Affiliate Asst. Professor in Neurology, University of Washington
2002-2005	Assistant Professor in Neurology, University of California, Irvine, Irvine, CA
2003	Director, Neuroimaging Core, UCI General Clinical Research Center Assistant Professor in Anatomy and Neurobiology, Univ. of California, Irvine Co-director, Clinical Stroke Service, UC Irvine
2004-2019	Associate, Reeve-Irvine Research Center, UC Irvine
2005-2019	Member, Institute for Brain Aging and Dementia, UC Irvine
2005-2010	Associate Professor in Neurology, UC Irvine Associate Professor in Anatomy and Neurobiology, UC Irvine
2006	Executive Committee, UC Irvine Alzheimer's Disease Research Center
2006-2009	Director, Stroke Center, UC Irvine Associate Clinical Director, U.C. Irvine Stem Cell Research Center
2010-2018	Clinical Director, Sue & Bill Gross Stem Cell Research Center, UC Irvine
2010-2019	Professor in Neurology and Anatomy & Neurobiology, UC Irvine
2011-2013	Member, Stroke Leadership Committee, American Heart Association
2011-2015	Vice-Chair of Research, Dept. Neurology, UC Irvine
2014	Interim Director, UC Irvine Comprehensive Stroke & Cerebrovascular Center
2014-2019	Associate Director, Institute for Clinical & Translational Science, UC Irvine
2018-	Adjunct Professor of Neurology, University of Rochester
2019-	Professor, Department of Neurology, University of California, Los Angeles Medical Director of Research, California Rehabilitation Institute Stroke Task Force, California Rehabilitation Institute Medical Executive Committee, California Rehabilitation Institute Stroke Steering Committee, Select Medical national organization Program Committee, California Rehabilitation Institute Quality and Patient Safety Committee, California Rehabilitation Institute Research Committee, California Rehabilitation Institute Science of Achievement in Rehabilitation Council, Calif. Rehab. Institute
2021-	Member, UCLA Neuroscience Interdepartmental Program Member, Grand Rounds Committee, Dept. Neurology Program Director in Neurorehabilitation; Dept. Neurology, UCLA

## Research Training

1982	Brain uptake of leucine in the rat <i>Supervisor:</i> William Pardridge, MD	Dept. Internal Medicine UCLA; Westwood, CA
1983-84	Developed a model for study of rat brain	Donner Laboratory

	protein synthesis rates <i>Supervisor:</i> Tom Budinger, MD, PhD	Lawrence Berkeley Lab Berkeley, CA
1986	Comparison of toxicities between Adriamycin and its cyanomorpholinyl analogue in mice <i>Supervisor:</i> Zoltan Tokes, PhD	Cancer Research Labs USC; L.A., CA
1990-91	Analysis of glucose transport proteins in proximal nephron <i>Supervisor:</i> William Pardridge, MD	Dept. Internal Medicine UCLA; Westwood, CA
1994	Clinicopathological study of the central nervous system and chronic lymphocytic leukemia <i>Supervisor:</i> David Louis, MD	Dept. Neuropathology Mass. Gen. Hospital Boston, MA
1995-97	Clinical and functional MRI study of motor recovery after stroke <i>Supervisors:</i> Seth Finklestein, MD Bruce Rosen, MD, PhD	Depts. Neurology/Radiology Mass. Gen. Hospital Boston, MA Charlestown, MA

### Professional Organization Memberships

1992-	American Academy of Neurology
1995-	Stroke Council, American Heart Association
1999	Organization for Human Brain Mapping
2005-2019	Founder, Director, of Orange County Stroke Society
2006-	American Society of Neurorehabilitation
2009-	American Neurological Association
2010-2019	Co-Founder, Co-Director, of Orange County Stroke Rehab Network

### Consultant, Board, and Advisory Positions

1999-2001	Stroke Advisory Board, AstraZeneca
2001-2006	Consultant, and member Advisory Board, Northstar Neuroscience, Inc. (formerly Vertis Neuroscience, Inc.)
2002-2003	Consultant, AGA Medical Corporation
2002-	Consultant, and member of Recovery from Brain Injury Advisory Board, GlaxoSmithKline
2003	Consultant, Merck & Co., Inc.
2004-2005	Consultant, AGY Therapeutics
2004-2006	Consultant and member Advisory Board, EBEWE Pharma
2004-2005	Consultant, Target Therapeutics, Inc., subsidiary of Boston Scientific Corp.
2004-2013	Member, External Scientific Review Committee, Centre for Stroke Recovery Of the Heart and Stroke Foundation of Ontario
2004-2006	appointed to Stroke Task Force, American Heart Assoc, Western States Affiliate
2005	Consultant, W.L. Gore & Associates Consultant, Biotrofix
2005-2010	Member, Board of Directors, American Heart Assoc., Orange County Division Consultant, Stem Cell Therapeutics
2006	Member, M's Science Research Expert Panel

2006-2008 Member, Advisory Board, Project Walk, Carlsbad, CA  
Member, Advisory Board, "Cortical Stimulation to Enhance Recovery after Stroke" (RJ Nudo, PI), U54 NS048126

2007 Consultant, Sygnis Pharma AG  
Consultant, CytRx Corporation  
Member, California Department of Public Health Stroke Work Group Master Plan Stroke Working Group  
Member, Advisory Board, Allergan Inc.  
Consultant, Pfizer Inc.

2008 Grupo Ferrer S.A., Expert Panel  
Consultant, Johnson & Johnson  
Consultant, Photothera

2009 Member, Medical Advisory Board, Goddess Fund

2010 Consultant, Cogstate Ltd.  
Lecturer, Genentech

2012-2012-2014 Consultant, MicroTransponder  
Chair, Rehabilitation and Recovery Committee of the American Heart Association's Stroke Council

2014 Consultant, Dart Neuroscience  
Member, American Heart Association Western States Affiliate Quality & Systems Improvement Task Force

2014- External Advisory Board, South Carolina Research Center for Recovery from Stroke, COBRE/NIH Center at Medical University of South Carolina  
Member, Executive Committee, NIH StrokeNet

2015 Consultant, RAND Corporation  
Consultant, Roche

2016 Consultant, Toyama Chemical Co., Ltd.

2018 Consultant, Abbvie  
Consultant, Neuroolutions  
Consultant, Regenera  
Consultant, SanBio  
Consultant, Constant Therapeutics  
Consultant, Stemedica  
Consultant, TRCare  
Writing Group, Clinical Performance Measures for Stroke Rehabilitation  
Performance Measures for Healthcare Professionals from the American Heart Association/American Stroke Association

2019 Consultant, Fujifilm Toyama Chemical Co., Ltd.  
Consultant, Biogen  
Member, Editor Search Committee, for the journal *Stroke*

2020 Consultant, Medtronic  
Consultant, NeuExcell

2021 Consultant, Elevian  
Consultant, Panaxium  
Consultant, Myomo

2022 Consultant, Omniscient Neurotechnology  
Consultant, Helius Medical Technologies  
Advisory Panel, Brooks Clinical Research Center  
Consultant, BrainQ



Co-Chair, Neurorecovery and Neuroplasticity Special Interest Group,  
 American Neurological Association  
 Consultant, Battelle  
 Consultant, Nervgen  
 Consultant, Brainsgate  
 Advisory Board, “Facilitating Rehabilitation Clinician Uptake of PCOR/CER  
 Results via Improved Research Reporting” (PCORI Award #: EASCS-24311)

## Other University Appointments, Committees, and Activities

1982-83 Created and performed with Cal Students/Community Music Program  
 1984-88 Student Research Committee, University of Southern California  
 Medical Education & Curriculum, University of Southern California  
 Committee  
 Grading & Evaluation Committee, University of Southern California  
 1987-88 Founder and Founding Editor, *The USC Journal of Medicine*  
 2001 Associate Member of Medical Staff, Seattle Cancer Care Alliance  
 2000-2002 Research Affiliate, Center on Human Development and Disability, University  
 of Washington, Seattle, WA  
 Member, Graduate Program in Neurobiology and Behavior, U of W, Seattle, WA  
 2002-2003 UC Irvine General Clinical Research Center, Advisory Committee member  
 2003- Member, UC Irvine Medical Center Stroke Work Group  
 2004 Member, UC Irvine Imaging Steering Committee (Research Imaging Center)  
 Member, UC Irvine Imaging Task Force  
 Member Dissertation Committee, Jiayin Liu, PhD student, Dept. Biomedical  
 Engineering, at UC Irvine  
 Neurology Rehabilitation Task Force, at UC Irvine  
 Member, UC Irvine College of Medicine “Vision 2010” Committee  
 Member Dissertation & Thesis Committees, Elizabeth Orr, M.S. student,  
 Kinesiology, CSULB Long Beach, CA  
 2005 Member Dissertation Committee, Robert Sanchez, PhD student, Dept.  
 Mechanical/Aerospace Engin, at UC Irvine  
 Co-mentor, K01, Stephen Page, OTR/L, PhD, University of Cincinnati,  
 Cincinnati, OH  
 Member, Dissertation Committee, Judy Pa, PhD student, Dept. Cognitive  
 Sciences, at UC Irvine  
 Member Dissertation Committee, Jeremy Emken, PhD student, Dept.  
 Biomedical Engineering, at UC Irvine  
 Mentor, Erlina Hassen, UC Irvine GCRC Clinical Trials Certification  
 Program Intern  
 Chair, Clinical Enterprise Subcommittee of the UC Irvine College of  
 Medicine “Vision 2010” Committee  
 Member, Communications Subcommittee of the UC Irvine College of  
 Medicine “Vision 2010” Committee  
 Member, Dissertation Committee, Ali Winkler, PhD student, Dept. Cognitive  
 Sciences, at UC Irvine  
 Member, Dissertation Committee, Eric Wolbrecht, PhD student, Dept.  
 Mechan/Aerospace Engin, at UC Irvine

- 2006 Member, Advisement Committee, Brian David, PhD student, Dept. Anatomy & Neurobiology, at UC Irvine  
 Member, Advisement Committee, Monica Siegenthaler, PhD student, Dept. Anatomy & Neurobiology, at UC Irvine  
 Member, Advancement and Thesis Committees, Mitra J. Hooshmand, PhD student, Dept. Anatomy & Neurobiology, at UC Irvine  
 Member Advancement and Thesis Committees, Desirée L. Salazar, PhD student, Dept. Anatomy & Neurobiology, at UC Irvine
- 2007 Member, Advisement Committee, Darius Gleason, PhD student, Calif Inst Regen Med Research Fellow, at UC Irvine  
 Member, Advisement and Thesis Committees, Sharyn Rossi, PhD student, Calif Inst Regen Med Research Fellow, at UC Irvine  
 Member, Advancement and Thesis Committees, Kevin Beck, PhD student, Dept. Anatomy & Neurobiology, at UC Irvine
- 2008 External Thesis Committee member, Cinzia Callautti, PhD Student, Dept. Neurology, Cambridge University, Cambridge, England  
 Member, Advancement Committee, Javier Garcia, PhD student, Dept. Cog Sci, at UC Irvine  
 Member, Advancement Committee, Chris Lay, PhD student, Dept. Neurobiology& Behavior, at UC Irvine  
 Member, Advancement Committee, Maya Koike, PhD student, Dept. Neurobiology& Behavior, at UC Irvine  
 Member, Advancement Committee, Jessica Kneubuhl, PhD student, Dept. Anatomy & Neurobiology, at UC Irvine  
 Member, Advancement Committee, Julius Klein, PhD student, Dept. Mechanical/Aerospace Engineering, at UC Irvine  
 External Thesis Committee member, Ettie Ben-Shabat, PhD Student, Dept. Occupational Therapy, La Trobe University, Victoria, Australia  
 Institute for Clinical Translational Science  
 Scientific Review Committee, UC Irvine
- 2009 Neurology Dept. Chair Search Committee, UC Irvine  
 Co-mentor, K23, Jack Lin, MD, UC Irvine  
 Co-mentor, K01, Dr. Jean Gehricke, UC Irvine  
 Member, Advisement Committee, Rafer Willenberg, PhD student, Dept. Anatomy & Neurobiology, at UC Irvine  
 Member, Advisement Committee, Jason Sharp, PhD student, Dept. Anatomy & Neurobiology, at UC Irvine
- 2010 Member, Advancement Committee, Steve Spencer, PhD student, Dept. Mechanical/Aerospace Engineering, at UC Irvine
- 2011 Member, Advancement Committee, Celina Mojica, PhD student, Dept. Anatomy& Neurobiology, UC Irvine  
 Co-mentor, K12, Eric Chang, MD, UC Irvine  
 Member, Advancement and Thesis Committees, James Allington, PhD student, Dept. Mechanical/Aerospace Engineering, UC Irvine  
 Graduate Advisor, Stephanie McHughen, UC Irvine
- 2012 Advisory Committee for the UC Irvine Center for Statistical Consulting  
 Member, Thesis Committee, Nizan Friedman, PhD student, Dept. Biomedical Engineering, at UC Irvine  
 Member, Thesis Committee, William Winter, PhD student, Dept. Cognitive

- Sciences, at UC Irvine  
 Member, Thesis Committee, Justin Rowe, PhD student, Dept. Biomedical Engineering, at UC Irvine  
 Member, Thesis Committee, Bo Zhou, PhD student, Dept. Statistics at UC Irvine  
 Graduate Advisor, Kristin Pearson-Fuhrhop, UC Irvine
- 2013  
 Member, Drug and Device Discovery and Development (“D4”) Committee of University of California Biomedical Research Acceleration, Integration & Development (UC BRAID)  
 Member, Advancement Committee, Zhe Yu, PhD student, Dept. Statistics, at UC Irvine
- 2014  
 Member, Thesis Committee, Maryam Khademi, Dept. Informatics, UC Irvine  
 Site Leader, University of California Center for Accelerated Innovation  
 Member, Space Committee, UC Irvine Stem Cell Research Center  
 Member, Advancement Committee, Eric Gold, PhD student, Dept. Anatomy & Neurobiology, at UC Irvine  
 Graduate Advisor, Erin Burke, UC Irvine
- 2015  
 Member, Thesis Committee, Ellen G. Wann, PhD student, Dept. Neurobiology & Behavior, at UC Irvine  
 Member, Clinical/Translational Advisory Committee, UC Irvine Stem Cell Research Center  
 Graduate Advisor, Jennifer Wu, UC Irvine
- 2016  
 External Thesis Examiner, Christine Shiner, Faculty of Medicine, The University of New South Wales, Australia  
 Member, Advancement Committee, Irina Nesterenko, MS student, Dept. Molecular Biology & Biochemistry, at UC Irvine
- 2017  
 Member, Thesis Committee, Anirudh Wodeyar, Dept. Cognitive Sciences, UC Irvine  
 Mentor, K99, Jessica Cassidy, DPT, PhD, UC Irvine  
 Co-mentor, K01, Sook-Lei Liew, PhD, OTR/L, University of Southern California
- 2018  
 Graduate Advisor, Morgan Ingemanson, UC Irvine
- 2019-  
 Co-mentor, K01, Joanne Smith, PT, PhD, Chapman University
- 2021  
 Member, Thesis Committee, Seungmin Jung, Dept. Mechanical Engineering, at UCLA  
 UCLA representative to the University of California Stroke Consortium Recovery & Rehabilitation Subgroup  
 Mentor, K23, Kathryn Cross, MD, PhD, UCLA  
 Co-mentor, AHA Career Development Award, Tanuj Gulati, PhD, Cedars Sinai  
 Consultant, K01, Kristan Leech, DPT, PhD, University of Southern California  
 Co-mentor, American Academy of Neurology Clinical Research Scholarship, David Lin, MD, Massachusetts General Hospital
- 2022  
 Co-mentor, K23, Ania Busza, MD, PhD, University of Rochester  
 Member, Thesis Committee, Dylan Reinsdorf, PhD student, Dept. Mechanical and Aerospace Engineering, at UC Irvine  
 Member, Thesis Committee, Yongwon Cho, MA student, Dept. Social Ecology, at UC Irvine  
 Consultant, K23, Abhishek Jaywant, PhD, NewYork-Presbyterian Hospital/Weill Cornell Medical Center
- 2023  
 Member, Thesis Committee, Mianzhi Zhou, PhD student, Dept.

Bioengineering, at UCLA  
 Member, Thesis Committee, Megan McCune, PhD student, Dept. Physical  
 Therapy and Rehabilitation Science, at UCSF

## Conference Duties

- 1999 Co-organized “Stroke Drug Development: Behavior Assessment of Research Animals to Determine Drug Effect” meeting, Boston, MA
- 2000 Co-organized “Neuronal Plasticity: The Key to Stroke Recovery” meeting, Kananaskis, Alberta, Canada  
 Moderator, “fMRI: Clinical Disorders” session of the 8<sup>th</sup> annual meeting of ISMRM, Denver, CO  
 Abstract reviewer, American Heart Association Scientific Sessions 2001
- 2001 Abstract reviewer, American Heart Association Asia-Pacific Scientific Forum and 42<sup>nd</sup> Annual Conf. on Cardiovascular Disease Epidemiology and Prevention  
 NINDS Stroke Progress Review Group Roundtable meeting
- 2002 Chair, “Neural Recovery and Reorganization in Humans” session of the International Stroke Symposium: Translating Principles of Brain Plasticity into Clinical Interventions  
 Abstract reviewer, American Heart Association Scientific Sessions 2002  
 Abstract reviewer, American Academy of Neurology, 55<sup>th</sup> annual meeting
- 2003 Moderator, “Cerebrovascular Disease: Clinical Aspects” session of 2003 meeting of American Academy of Neurology  
 Abstract reviewer, American Heart Association Scientific Sessions 2003  
 Steering Committee, First International Workshop on Neuroimaging and Stroke Recovery  
 Abstract reviewer, American Academy of Neurology, 56<sup>th</sup> annual meeting
- 2004 Abstract reviewer, American Academy of Neurology, 57<sup>th</sup> annual meeting
- 2005 Abstract reviewer, Organization for Human Brain Mapping, 11<sup>th</sup> annual meeting  
 Co-organizer, UCI Comprehensive Stroke Care Symposium  
 Abstract reviewer, American Heart Association Scientific Sessions 2005  
 Abstract reviewer, American Academy of Neurology, 58<sup>th</sup> annual meeting
- 2006 Abstract reviewer, Organization for Human Brain Mapping, 12<sup>th</sup> annual meeting  
 Moderator, International Stroke Conference 2006, “Brain Stimulation to Improve Stroke Outcome”  
 Abstract reviewer, American Heart Association Scientific Sessions 2006  
 Member, Imaging Subcommittee, NINDS Stroke Progress Review Group  
 Member, Biology of Repair Subcomm. NINDS Stroke Progress Review Group  
 Member, Recovery & Rehab Subcomm. NINDS Stroke Progress Review Group
- 2007 Abstract reviewer, Organization for Human Brain Mapping, 13<sup>th</sup> annual meeting  
 Co-organizer, Symposium, “UCI Stroke Care 2007: A Nursing Perspective”  
 Ran “Workshop on Magnetic Resonance Imaging, Transcranial Magnetic Stimulation, and Functional Electrical Stimulation” at Sunnybrook Health Sciences Centre, Toronto, part of Centre for Stroke Recovery of Heart & Stroke Foundation of Ontario meeting
- 2008 Moderator, International Stroke Conference 2008, “Clinical Approaches to Brain Repair after Stroke”

- Moderator, 26th Princeton Conference on Cerebrovascular Disease, “Rehabilitation”
- Co-organizer, “Stroke Symposium 2008”, UCI Stroke & Cerebrovascular Ctr
- Abstract reviewer, American Heart Association Scientific Sessions 2008
- 2009 Abstract reviewer, American Academy of Neurology, 61<sup>st</sup> annual meeting
- Abstract reviewer, Organization for Human Brain Mapping, 15<sup>th</sup> annual meeting
- co-Chair, NIH Blueprint meeting: “Harnessing Neuroplasticity for Human Applications”
- Moderator, 15<sup>th</sup> annual meeting of the Organization for Human Brain Mapping, “Utility of Brain Mapping for Improving Human Brain Repair”
- Abstract reviewer, International Stroke Conference 2010
- 2010 Abstract reviewer, American Academy of Neurology, 62<sup>nd</sup> annual meeting
- Moderator, “Rehab & Repair” section of Stroke Synergium 2010
- Moderator, International Stroke Conference 2010, “Brain Repair after Stroke”
- Abstract reviewer, American Neurological Association, 135<sup>th</sup> annual meeting
- Member, Scientific Committee, and abstract reviewer, 2011 International Conference on Rehabilitation Robotics (ICORR) meeting
- Abstract reviewer, International Stroke Conference 2011
- Abstract reviewer, American Academy of Neurology, 63<sup>rd</sup> annual meeting
- Moderator, 1<sup>st</sup> annual Orange County Stroke Rehab Network “Continuing Education Workshop”
- 2011 Poster Tour Moderator, Multidisciplinary Clinical Rehabilitation, International Stroke Conference 2011
- Moderator, 2<sup>nd</sup> annual Orange County Stroke Rehab Network “Continuing Education Workshop”
- Abstract reviewer, American Academy of Neurology, 64<sup>th</sup> annual meeting
- 2012 Abstract reviewer, Organization for Human Brain Mapping, 18<sup>th</sup> annual meeting
- Discussant, Junior Investigator Session; and Leader, Stroke Leader Roundtable Luncheon for Early Career/Fellows; International Stroke Conference 2012
- Abstract reviewer, International Stroke Conference 2013
- Moderator, 3<sup>rd</sup> annual Orange County Stroke Rehab Network “Continuing Education Workshop”
- 2013 Abstract reviewer, Organization for Human Brain Mapping, 19<sup>th</sup> annual meeting
- Moderator, International Stroke Conference 2013, “Enhancing Stroke Rehabilitation: Engaging the Brain Reward System”
- Moderator, European Stroke Conference, “Rehabilitation And Reorganisation After Stroke”
- 2014 Moderator, International Stroke Conference 2014, “Exercise after Stroke: Evidence and Application”
- Abstract reviewer, International Stroke Conference 2015
- Course Co-Director, “A Comprehensive Approach to Stroke Care” of the UC Irvine Health Stroke & Cerebrovascular Disease Center
- 2015 Abstract reviewer, Organization for Human Brain Mapping, 21<sup>st</sup> annual meeting
- Moderator, International Stroke Conference 2015, “Junior Investigator Session II”
- 2016 Moderator, World Congress of Neurorehabilitation, Philadelphia, PA
- Abstract reviewer, International Stroke Conference 2017
- Abstract reviewer, American Academy of Neurology, 2017 Annual Meeting
- Moderator, 2016 Annual Meeting, American Society of Neurorehabilitation
- 2017 Abstract reviewer, International Stroke Conference 2018

- 2018 Abstract reviewer, American Academy of Neurology, 2018 Annual Meeting  
Abstract reviewer, International Stroke Conference 2019
- Abstract reviewer, American Academy of Neurology, 2019 Annual Meeting  
Workshop co-Chair, “Stroke Recovery Workshop: Bridging the Translational  
Gap in Stroke Recovery & Rehabilitation Research,” NIH, Bethesda, MD
- 2019 Abstract reviewer, 5<sup>th</sup> European Stroke Organization Conference  
Moderator, International Stroke Conference 2019  
Moderator, American Academy of Neurology 71<sup>st</sup> annual meeting  
Abstract reviewer, International Stroke Conference 2020
- 2020 Abstract reviewer, American Academy of Neurology, 2020 Annual Meeting  
Abstract reviewer, 145<sup>th</sup> Annual Meeting, American Neurological Association  
Abstract reviewer, International Stroke Conference 2021
- 2021 Abstract reviewer, American Neurological Association, 146<sup>th</sup> annual meeting  
Abstract reviewer, International Stroke Conference 2022
- 2022 Abstract reviewer, 147<sup>th</sup> Annual Meeting, American Neurological Association  
Abstract reviewer, International Stroke Conference 2023
- 2023 Abstract reviewer, American Academy of Neurology 75<sup>th</sup> annual meeting  
Moderator, International Stroke Conference 2023  
Moderator, Orange County Stroke Rehab Network “Continuing Education  
Workshop”  
Abstract reviewer, American Neurological Association, 148<sup>th</sup> annual meeting

### Editorial Board member

- 2006 Guest Editor, *Archives of Physical Medicine & Rehabilitation*, Vol 87, No., 12, Suppl 2
- 2006- Editorial board member, *Neurorehabilitation and Neural Repair*
- 2013 Guest Editor, *International Journal of Stroke*, Vol 8, No 1
- 2010-2015 Assistant Editor, *Stroke*
- 2019- Associate Editor, *Neurorehabilitation and Neural Repair*
- 2020- Section Editor, *Stroke*

### Ad hoc reviewer

#### Journals

Acta Physiologica Scandinavica  
Annals of Neurology  
Archives of General Psychiatry  
Archives of Physical Medicine and Rehabilitation  
Artificial Intelligence in Medicine  
Behavioural Brain Research  
Brain  
Brain and Cognition  
Brain Research  
Brain Research Bulletin  
Cerebral Cortex  
Cerebrovascular Diseases  
Cleveland Clinic Journal of Medicine

Clinical Neurology and Neurosurgery  
Clinical Neurophysiology  
Current Biology  
Disability and Rehabilitation  
European Journal of Neurology  
European Journal of Neuroscience  
Experimental Brain Research  
Experimental Neurology  
Expert Review of Neurotherapeutics  
Games for Health Journal  
Heart  
Hippocampus  
Human Brain Mapping  
IEEE Transactions on Neural Systems and Rehabilitation Engineering  
JAMA Neurology  
JAMA Psychiatry  
Journal of the American Medical Association  
Journal of Biomedical Optics  
Journal of Cerebral Blood Flow and Metabolism  
Journal of Clinical Investigation  
Journal of NeuroEngineering and Rehabilitation  
Journal of Neuroimaging  
Journal of Neurology  
Journal of Neurology, Neurosurgery & Psychiatry  
Journal of Neurophysiology  
Journal of Neuroscience  
Journal of Neuroscience Methods  
Journal of Nuclear Medicine  
Journal of Physiology  
Journal of Stroke and Cerebrovascular Diseases  
The Lancet  
The Lancet Neurology  
Neurocase  
Neuroimage  
Neuroimage: Clinical  
Neurology  
Neuropharmacology  
Neuropsychologia  
NeuroRehabilitation  
Neurorehabilitation and Neural Repair  
Neuroreport  
Neuroscience  
Neuroscience Letters  
New England Journal of Medicine  
Physical Therapy  
PLOS ONE  
PM&R: The journal of injury, function and rehabilitation  
Progress in Brain Research  
Progress in Neurobiology

Proceedings of the National Academy of Sciences  
 Quarterly Journal of Experimental Psychology  
 Regenerative Medicine  
 Restorative Neurology and Neuroscience  
 Science  
 Science Translational Medicine.  
 Stroke  
 Topics in Stroke Rehabilitation

#### Granting Agencies

Action Medical Research (Great Britain)  
 Alberta Heritage Foundation for Medical Research  
 Alzheimer's Disease Research Center, University of Washington  
 American Heart Association-Bugher Foundation Study Section  
 Austrian Science Fund (FWF)  
 Biotechnology and Biological Sciences Research Council  
 California Institute for Regenerative Medicine Training Program (U.C. Irvine)  
 Canadian Institutes of Health Research  
 Clinical Translational Science Award (CTSA) External Reviewers Exchange Consortium  
 Florida Department of Health Biomedical Research Program  
 Hakim Innovative Stroke Research Award Evaluation Committee  
 Health Research Board (Ireland)  
 Kansas University Medical Center Internal Grants Program  
 The Langeloth Foundation  
 Medical Research Council (Great Britain)  
 Medical Research Council of Canada  
 National Institutes of Health: NINDS Board of Scientific Counselors (ad hoc; twice)  
 National Institutes of Health: Clinical Neurosciences and Disease study section  
 (formerly BDCN-1), *standing member*, 2002-2007  
 National Institutes of Health: CHHD-K ("Function, Integration and Rehabilitation  
 Sciences") study section, *standing member*, 2012-2020; **Chair**, 2018-2020  
 National Institutes of Health: NSD-A Study Section, ad hoc  
 National Institutes of Health: IRG ZNS1 SRB-K Study Section, ad hoc  
 National Institutes of Health: ZRG1 BDCN-C (02)M Study Section, ad hoc  
 National Institutes of Health: ZRG1 BDCN-N Study Section, ad hoc  
 National Institutes of Health: ZRG1 BDCN-T(03) Study Section, ad hoc  
 National Institutes of Health: ZRG1 BDCN-M (07) M Study Section, ad hoc  
 National Institutes of Health: ZRG1 BDCN-W (03) M Study Section, ad hoc  
 National Institutes of Health: ZRG1 MOSS-L (50) Special Emphasis Panel, ad hoc  
 National Institutes of Health: ZRG1-BDCN T58, ad hoc  
 National Institutes of Health: 2015/08 ZHD1 DSR-T (40), 1 of 3 appointed **Chair**  
 National Institutes of Health: ZHD1 DSR-K (52), **Chair**  
 National Institutes of Health: Acute Neural Injury and Epilepsy, ad hoc  
 National Institutes of Health: ZHD1 DSR-T (50), **Chair**  
 National Institutes of Health: ZHD1 DSR-T (02), **Chair**  
 National Institutes of Health: 2020/01 ZHD1 DSR-T (50), 1 of 2 appointed **Chair**  
 National Institutes of Health: ZRG1 HDM Z 52  
 Neurological Foundation of New Zealand  
 Nova Scotia Health Research Foundation



Ontario Centre for Stroke Recovery  
Research into Ageing  
Royalty Research Fund, University of Washington  
Rutherford Discovery Fellowships, New Zealand  
Spinal Cord Research Foundation  
University of California Center for Accelerated Innovation  
University of Kansas, COBRE grant reviews  
University of Maryland Claude D. Pepper Center Pilot Grant Program  
University of Wisconsin, Research Growth Initiative Program  
V.A. Medical Research Service Merit Review  
Volkswagen Foundation  
The Wellcome Trust  
Western Medical Rehabilitation Research Network Pilot Grant Program

## **U.S. Patents**

Patent No. 5,885,231 “Digital Motor Event Recording System”, 3/23/1999  
Patent No. 10,475,352 “Systems And Methods For Facilitating Rehabilitation Therapy”, 11/12/19

## **U.S. FDA Investigational New Drug Applications**

IND 67,354; “Randomized, Placebo-controlled, Double-blind Pilot Trial to Evaluate the Safety and Efficacy of Ropinirole in Motor Recovery after Stroke”; exemption request granted  
IND 73,981; “Safety of Beta-hCG + Erythropoietin in Acute Stroke”; approved  
IND 14,054; “Safety of IV Autologous Mononuclear Cells and Marrow Stromal Cells After Stroke”; approved

## **U.S. FDA Investigational Device Exemption**

G050214 “Studies on the safety of repetitive transcranial magnetic stimulation (rTMS) in chronic subcortical stroke”; exemption granted (co-author)  
Q140628 Premarket risk determination review (non-significant risk device study)

## **Data Safety Monitoring Board and Steering Committee**

DSMB member for the study “MK-0724 on the Amelioration of Neurological Damage and Recovery from Middle Cerebral Artery Ischemic Stroke” (Merck)  
DSMB member for the study “Escitalopram & Language Intervention for Subacute Aphasia (ELISA)” (NIDCD P50 DC011739)  
Steering Committee member, “The Efficacy of a Frequency-tuned Electromagnetic Field Treatment in Facilitating the Recovery of Subacute Ischemic Stroke Patients - a Pivotal Study” (eMagine Study) (BrainQ)

## **Presentations Delivered Within the University**

1996           Lecturer, HST 130, Harvard Medical School  
1997           Grand Rounds, Dept. Neurology, Massachusetts General Hospital

- 1998 Grand Rounds, Dept. Neurosurgery, University of Washington
- 1999 Lecturer, NEUBEH 503, Department of Neurobiology and Behavior  
Grand Rounds, Dept. Rehabilitation Medicine, University of Washington
- 2001 Lecturer, University of Washington Mini-Medical School  
Cardiovascular Care Update, CME course, Univ. of Washington  
Lecturer, Review Course, Dept. of Physical Medicine and Rehab., U. of Wash.  
Grand Rounds, Dept. Rehabilitation Medicine, University of Washington  
Lecturer, Psychology 460, University of Washington  
Grand Rounds, Dept. Speech Pathology, U. of Wash.  
Grand Rounds, Dept. Neurosurgery, U. of Wash.  
Research Conference, Dept. Nuclear Medicine, U. of Wash.  
Grand Rounds, Dept. Neurology, U. of Wash.  
Grand Rounds, Dept. Emergency Medicine, U. of Wash.
- 2002 Lecturer, University of Washington Mini-Medical School  
Grand Rounds, Dept. Internal Medicine, U. of Wash.  
Grand Rounds, Dept. Rehabilitation Medicine, University of Washington  
Co-speaker, Grand Rounds, University of Washington Regional Heart Center  
Grand Rounds, Dept. Neurology, U. of Wash.
- 2003 Lecturer, Alzheimer's Center Seminar Series, U.C. Irvine  
Lecturer, University of California, Irvine Mini-Medical School  
Lecturer, Clinical Lecture Series, Dept. Physical Medicine & Rehabilitation  
Lecturer, UCI Stroke Seminar  
Grand Rounds, Dept. Neurology, UC Irvine  
Lecturer, Department of Anatomy & Neurobiology Seminar
- 2004 Lecturer, Neuroscience clinical correlates, 1st year medical school class  
Lecturer, Topics in Medicine, 2<sup>nd</sup> year medical school class  
Lecturer, UCI Human Brain Map Seminar series  
Lecturer, Institute for Brain Aging and Dementia  
Grand Rounds, Dept. Emergency Medicine, UC Irvine  
Speaker, UCI Primary Care Physicians  
Guest Lecturer, Biology 2B course  
Speaker, UCI Medical School Student Interest Group in Neurology  
Lecturer, Trauma-Critical Care Noon Conference  
Lecturer, UCI Medical Center Nursing Education Series
- 2005 Speaker, College of Medicine "Careers in Medicine" Group  
Speaker, UCI Comprehensive Stroke Care Symposium  
Guest teacher, NB251  
Lecturer, Neuroscience clinical correlates, 1st year medical school class  
Lecturer, Topics in Medicine, 2<sup>nd</sup> year medical school class  
Speaker, Department Physical Medicine & Rehabilitation lecture series  
Speaker, 18<sup>th</sup> UCI Chief Executive Roundtable Retreat  
Guest Lecturer, Biology 2B course  
UCI Dept. Neurosurgery Cerebrovascular Symposium: Contemporary  
Comprehensive Approach to the Management of Cerebrovascular Disease  
Speaker, "Breakfast with the Dean" UCI lecture series  
UCI Nursing Neuro-update lecturer  
Grand Rounds, Dept. Neurology, UC Irvine  
UCI Medical Center, Dept. Internal Medicine, Resident Education Series lecture  
Lecturer, "Foundations of Neuroscience," Neurobiology 202A

- VA Long Beach, Dept. Internal Medicine, Resident Education Series lecture  
 Grand Rounds, Dept. Anesthesiology, UC Irvine  
 UCI Clinical Neuroscience Advisory Board
- 2006  
 Grand Rounds, Dept. Internal Medicine  
 Speaker, Department Physical Medicine & Rehabilitation lecture series  
 Speaker, UCI Clinical Neurosciences Update 2006  
 Lecturer, Neuroscience clinical correlates, 1st year medical school class  
 Lecturer, Topics in Medicine, 2<sup>nd</sup> year medical school class  
 Speaker, UC Irvine/Samueli School of Engineering 5th Annual Industry  
 Research Symposium, California: Prosperity through Technology  
 Grand Rounds, Dept. Neurosurgery, UC Irvine  
 Rehab Therapy In-service Rounds, UC Irvine  
 Grand Rounds, Dept. Neurology, UC Irvine  
 Speaker, Department Physical Medicine & Rehabilitation lecture series  
 Lecturer, weekly resident seminar, Dept. Internal Medicine
- 2007  
 Speaker, Institute for Brain Aging and Dementia Seminar Series  
 Lecturer, "Foundations of Neuroscience," Neurobiology 202A  
 Lecturer, "Clinical Application of Stem Cell" course 09270 EE  
 Grand Rounds, Dept. Neurosurgery, UC Irvine  
 Lecturer, Topics in Medicine, 2<sup>nd</sup> year medical school class  
 Speaker, Department Physical Medicine & Rehabilitation lecture series  
 UCI Multidisciplinary Exercise Sciences Training Program lecture series  
 UCI Stroke Care 2007: A Nursing Perspective  
 Lecturer, Neuroscience clinical correlates, 1st year medical school class  
 UCI Family Medicine Update Course, 2007, Garden Grove, CA  
 Grand Rounds, Dept. Neurology, UC Irvine  
 Lecturer, "Foundations of Neuroscience," Neurobiology 202A  
 Speaker, Progress In Neurobiology Series, Dept. Anat & Neurobio, UC Irvine
- 2008  
 Speaker, College Student Interest Group in Neurology, branch of AAN  
 Speaker, UCI Exercise Science Group  
 Lecturer, Neuroscience clinical correlates, 1st year medical school class  
 Speaker, Dept. Physical Medicine & Rehabilitation lecture series (twice)  
 Speaker, Dept. Neurosurgery Neurotrauma and Critical Care symposium  
 Speaker, UCI Stroke & Cerebrovascular Center "Stroke Symposium 2008"  
 UCI Family Medicine Update Course, 2008, Garden Grove, CA  
 Grand Rounds, Dept. Neurology, UC Irvine  
 Speaker, UC Irvine Medical School Student Interest Group in Neurology  
 Lecturer, "Foundations of Neuroscience," Neurobiology 202A  
 Lecturer, weekly resident seminar, Dept. Internal Medicine  
 Keynote speaker, UCI Medical Scientist Training Program, annual retreat  
 Lecturer, 4 motor system talks, Neurobiology 208A (Anatomy 210A)
- 2009  
 Grand Rounds, Dept. Neurology, UC Irvine  
 Calif Inst Regenerative Medicine Fellows Stem Cell Seminar, UC Irvine  
 Speaker, Reeve-Irvine Medal Symposium: "Stepping Toward a New  
 Restorative Neuroscience," Irvine, CA  
 Speaker, resident seminar series, Dept. Neurosurgery, UC Irvine  
 Lecturer, Neuroscience clinical correlates, 1st year medical school class  
 Guest Lecturer, Biology 2B course  
 UCI Family Medicine Update Course, 2009, Garden Grove, CA

- Lecturer, UCI Stem Cell Symposium, Irvine, CA  
 Lecturer, "Foundations of Neuroscience," Neurobiology 202A  
 Grand Rounds, Dept. Neurology, UC Irvine
- 2010  
 Speaker, UC Irvine Medical School Academic Medicine Interest Group  
 Speaker, College Student Interest Group in Neurology, branch of AAN  
 Lecturer, 16<sup>th</sup> UCI Distinguished Lecture Series on Brain, Learning, and Memory  
 Lecturer, Neuroscience clinical correlates, 1st year medical school class  
 Guest Lecturer, Biology 2B course  
 UCI Family Medicine Update Course, 2010, Garden Grove, CA  
 Grand Rounds, Dept. Neurology, UC Irvine  
 Lecturer, UC Irvine COSMOS (California State Summer School for Mathematics & Science) program  
 UCI Neurology & Neurosurgery Update for Primary Care, Huntington Beach, CA  
 UCI 2010 Stroke & Cerebrovascular Disease Management And Emerging Therapies
- 2011  
 Guest Lecturer, Neurobiology 112B  
 Lecturer, "Foundations of Neuroscience," Neurobiology 202A  
 Lecturer, "Epilepsy as a window to mechanisms of neuronal plasticity"  
 (Course code 08330)  
 Lecturer, "Stem Cell Topics", MMG230  
 Invited speaker, 1st UC Irvine School of Medicine Clinical Basic & Translational Science Festival  
 Lecturer, UC Irvine COSMOS (California State Summer School for Mathematics & Science) program  
 Speaker, "Unmet Clinical Needs", UCI Workshop  
 Speaker, 2011 UCI Stroke Symposium 2011 Neuroendovascular Management and Neurocritical Care of the Stroke Patient
- 2012  
 Lecturer, Clinical Foundations, 2<sup>nd</sup> year medical students  
 Lecturer, MMG 230 course "Topics in Stem Cells"  
 Lecturer, UC Irvine COSMOS (California State Summer School for Mathematics & Science) program  
 Grand Rounds, Dept. Neurology, UC Irvine  
 Irvine Global Innovations Summit, CalITT  
 Lecturer, Venture Science--Crossing Disciplines, Creating Innovation, CalITT  
 Lecture to residents, Physical Medicine & Rehabilitation
- 2013  
 Lecturer, Clinical Foundations, 2<sup>nd</sup> year medical students  
 Lecturer, MMG230/ANAT230 "Topics in Stem Cells"  
 Lecturer, Bio 44 "Stem Cells and Brain Repair"  
 Speaker, Dept. Neurology, Neurology Research Social  
 Guest Lecturer, Neurobiology 112B  
 Grand Rounds, Dept. Neurology, UC Irvine
- 2014  
 Lecturer, 5 motor system talks, Neurobiology 208A (Anatomy 210A)  
 Guest Lecturer, Neurobiology 112B  
 Lecturer, "Foundations of Neuroscience," Neurobiology 202A  
 Lecturer, Clinical Foundations, 2<sup>nd</sup> year medical students  
 Neuro Nuggets Nursing Conference, UC Irvine Medical Center  
 Department of Rehabilitation Services "Current Trends" Lecture Series  
 Speaker, Stem Cell Awareness Day Symposium "Stem Cells: Translational Opportunities and Challenges"  
 Lecturer (twice), resident educational series, Dept. Physical Medicine & Rehabilitation

- 2015 Speaker, "A Comprehensive Approach to Stroke Care" of the UC Irvine Health Stroke & Cerebrovascular Disease Center  
 Invited Reader, Art of Medicine Symposium, UC Irvine  
 Lecturer, Clinical Foundations, 2<sup>nd</sup> year medical students  
 Grand Rounds, Dept. Neurology, UC Irvine  
 Grand Rounds, Dept. Neurological Surgery, UC Irvine  
 Speaker, 2015 UC Irvine Health Neurosciences Updates for Primary Care  
 Speaker, UC Irvine Health Comprehensive Stroke Center Symposium: 2015 Moving Stroke Care to the Next Level
- 2016 Lecturer, Clinical Foundations, 2<sup>nd</sup> year medical students (2 lectures)  
 Lecturer, UC Irvine Brain Mapping Colloquium  
 Grand Rounds, Dept. Neurology, UC Irvine  
 Research Associates lecture, UC Irvine  
 UC Irvine Health Comprehensive Stroke & Cerebrovascular Center Symposium
- 2017 Lecturer, Clinical Foundations, 2<sup>nd</sup> year medical students  
 Guest Lecturer, Advanced Neurobiology II - N115B  
 Speaker, UC Irvine Mini-Med School
- 2018 Guest Lecturer, Advanced Neurobiology II - N115B  
 Speaker, Poetry of Healing and Hope: An Evening of Poets  
 Speaker, Department Physical Medicine & Rehabilitation lecture series  
 Guest Lecturer, Biological Sciences N120C  
 Speaker, "An Evening To Remember", UCI Center for the Neurobiology of Learning and Memory  
 Speaker, Biological Sciences N117: Introduction to Neuroscience Clinical Trials  
 Speaker, UC Irvine Stroke Symposium 2018  
 Speaker, College Student Interest Group in Neurology (CoSIGN)
- 2019 Speaker, Poetry of Healing and Hope: An Evening of Poets  
 Grand Rounds, Dept. Neurology, UCLA
- 2020 Lecturer, VA Greater Los Angeles Physical Medicine and Rehabilitation residency lunchtime lecture series (monthly lectures)  
 Panelist, UCLA Neurotech Event, The Future of Prosthetics: Restoring Limbs and Movement  
 Speaker, UCLA Neuroimaging Affinity Group  
 Lecturer, UCLA Neurology Resident Lecture Series
- 2021 Lecturer, VA Greater Los Angeles Physical Medicine and Rehabilitation residency lunchtime lecture series (monthly lectures)  
 Speaker, UCLA Neuromodulation Seminar Series  
 Speaker, UCLA Brain Attack! '21
- 2022 Lecturer, VA Greater Los Angeles Physical Medicine and Rehabilitation residency lunchtime lecture series (monthly lectures)  
 Neuro Rehab Quarterly Meeting, UCLA Neurorehabilitation Therapists  
 UCLA Dept. Neurosurgery and Casa Colina Lecture Series  
 Speaker, UCLA Brain Attack! '22

### Invited External Presentations

- 1997 Special Presentation, Dept. Neurology, V.A. Medical Center, U. of Minnesota

- Grand Rounds, Dept. Neurology, Medical College of Wisconsin  
 Grand Rounds, Dept. Neurology, University of Washington  
 IBC Ischemic Stroke Conference
- 1998 Plenary Session, 23<sup>rd</sup> International Joint Conference on Stroke  
 and Cerebral Circulation of the American Heart Association  
 IBC Ischemic Stroke Conference  
 University of Washington Neuroscience Nursing Symposium  
 60<sup>th</sup> Annual Assembly of the American Academy of Physical Medicine and Rehabilitation  
 Clinical Functional MRI, Harvard Medical School CME course  
 Radiological Society of North America, annual meeting
- 1999 Grand Rounds, Oregon Health Sciences University, Dept. Neurology  
 24<sup>th</sup> International Joint Conference on Stroke  
 and Cerebral Circulation of the American Heart Association  
 2<sup>nd</sup> World Congress in Neurological Rehabilitation  
 UCLA Program in Neural Repair
- 2000 Visiting Professor, University of Kansas Center on Aging  
 “Neuronal Plasticity: The Key to Stroke Recovery” meeting  
 Lecturer, International Society for Magnetic Resonance in Medicine, 8<sup>th</sup> annual meeting  
 Lecturer, Annual Multidisciplinary Stroke Course, Rehab. Institute of Chicago  
 Organization for Human Brain Mapping, 6<sup>th</sup> annual meeting  
 Grand Rounds, Walla Walla General Hospital, Walla Walla, Washington  
 American Association of Neuroscience Nurses, Puget Sound Chapter  
 American Clinical Neurophysiology Society, annual meeting  
 Grand Rounds, Magic Valley Regional Medical Center, Twin Falls, Idaho  
 Washington Chapter of American College of Physicians-American Society of  
 Internal Medicine, annual meeting
- 2001 Diagnosis & Treatment of Acute Stroke, CME course, American Heart Association  
 Primary Care Rounds, Providence-St. Peter Hospital, Olympia, WA  
 Grand Rounds, St. Joseph Hospital, Bellingham, WA  
 Annual Conference in Movement Sciences, Columbia University  
 Keynote speaker, Women’s Health Research Symposium, University of Kentucky  
 Organization for Human Brain Mapping, 7<sup>th</sup> annual meeting  
 Current Topics in fMRI Research: An International fMRI Symposium, Ulm, Germany  
 Puget Sound Stroke Interest Group
- 2002 Guest Faculty, “Motor Recovery After Stroke,” Rehab. Institute of Chicago  
 Invited speaker, Cerebrovascular Center, LDS Hospital, Salt Lake City, Utah  
 University of Washington Annual Neuroscience Nursing Symposium  
 Speaker, “Prevention & Treatment of Acute Stroke,” a Professional Education  
 Symposium of the American Stroke Association  
 Grand Rounds, U.C. Irvine Medical Center, Dept. Neurology  
 Invited speaker, 23<sup>rd</sup> Princeton Conference on Cerebrovascular Disease  
 Lecturer, “Neurorehabilitation: Brain Recovery and Reorganization Through  
 Therapy” course, 54<sup>th</sup> annual meeting American Academy of Neurology  
 Lecturer, Stroke Conference, Northwest Hospital, Seattle, WA  
 Invited speaker, “Living Well with Stroke,” Harborview Hospital, Seattle, WA  
 Grand Rounds, Madigan Army Medical Center Dept. Neurology, Tacoma, WA  
 Grand Rounds, University of Utah Dept. Internal Medicine, Salt Lake City, UT  
 Lecturer, annual meeting Society for Cardiac Angiography and Interventions,  
 satellite symposium, Seattle, WA

- Lecturer, Region 3 meeting of Washington Academy of Physician Assistants  
 Lecturer, annual meeting Transcatheter Cardiovascular Therapeutics, satellite Symposium, Washington, DC  
 Invited speaker, 17<sup>th</sup> annual meeting, Northwest Vascular Technologist Assoc'n  
 Lecturer, Stem Cell Biology Basic Science Seminar, City of Hope National Medical Center
- 2003  
 Invited speaker, Leisure World, Laguna Hills, CA  
 Speaker, Orange County Neurological Society, Costa Mesa, CA  
 Invited speaker, American Stroke Association "2003 Emerging Science in the Diagnosis and Treatment of Stroke" satellite broadcast  
 Invited speaker, Orange Senior Center, Orange, CA  
 Lecturer, Western Medical Rehab. Research Network-UCLA fMRI Course  
 Invited speaker, Center for Functional and Molecular Imaging, Georgetown Univ.  
 Invited speaker, 2003 joint conference of the American Congress of Rehabilitation Medicine and the American Society of Neurorehabilitation
- 2004  
 Lecturer, Long Beach Memorial Hospital, Dept. Family Medicine  
 Speaker, First International Workshop on Neuroimaging and Stroke Recovery  
 Speaker, UC Irvine Medical Center Stroke Prevention Seminar  
 Invited speaker, plenary session, 29<sup>th</sup> International Stroke Conference  
 Lecturer, Huntington Beach Hospital  
 Speaker, California Spinal Cord Injury/Neural Regeneration Consortium Roman Reed Research Meeting  
 Invited lecturer, UCLA Neural Repair Seminar  
 Invited speaker, 24<sup>th</sup> Princeton Conference on Cerebrovascular Disease  
 Invited speaker, Martinos Center for Biomedical Imaging, Massachusetts General Hospital  
 Keynote Speaker, Centre for Stroke Recovery, Heart and Stroke Foundation of Ontario, annual meeting  
 Lecturer, International Society for Magnetic Resonance in Medicine, 12<sup>th</sup> annual meeting  
 Neurorehabilitation Research Institute, Bobath Memorial Hospital, Osaka, Japan  
 Eisenhower Medical Center, Rancho Mirage, CA  
 Oasis Senior Center, Corona Del Mar, CA  
 Invited speaker, American Society of Neuroradiology, 42<sup>nd</sup> annual meeting, Seattle, WA  
 Monterey Park Hospital, Monterey Park, CA  
 Garfield Medical Center, Alhambra, CA  
 Irvine Regional Medical Center, Irvine, CA  
 Bowers Museum, UCI Senior Health Series, Santa Ana, CA  
 Encino-Tarzana Regional Medical Center, Tarzana, CA  
 Western States Stroke Consortium, 6<sup>th</sup> annual meeting  
 Invited lecturer, Dept. Neurology, University of Cambridge, England  
 Grand Rounds, Dept. Neurology, UCSD, La Jolla, CA  
 The Richard Nixon Library, Yorba Linda, CA  
 Lecturer, Western Medical Rehab. Research Network-UCLA fMRI Course  
 Grand Rounds, Dept. Neurology, University of Southern California, LA, CA
- 2005  
 Speaker, Orange County Regional Paramedic Advisory Committee (four times)  
 Lakeview Senior Center, Irvine, CA  
 Lecturer, Huntington Beach Hospital  
 Orange County Neurological Society  
 Rancho Los Amigos Rehabilitation Hospital Stroke Support Group, Downey, CA

- Lewis Lake Senior Center/AARP, Garden Grove, CA  
 Project Walk, Carlsbad, CA  
 Newport Beach Country Club, Newport Beach, CA  
 5<sup>th</sup> annual Orange County Emergency Care meeting, Santa Ana, CA  
 Second International Workshop on Imaging Recovery from Stroke, Hamburg, Germany  
 Grand Rounds, Saddleback Memorial Hospital, Laguna Hills, CA  
 Grand Rounds, Mission Hospital, Mission Viejo, CA  
 Grand Rounds, Western Medical Center, Anaheim, CA  
 Grand Rounds, Dept. Neurology, University of Texas, San Antonio  
 Grand Rounds, Garden Grove Hospital, Garden Grove, CA  
 Orange Senior Center, Orange, CA  
 Invited speaker, 6th Annual University of California Neurotrauma Meeting  
 Lecturer, Dept. Biokinesiology & Physical Therapy BKN 623, USC, LA, CA  
 Merage JCC of Orange County, Irvine, CA  
 Board of American Heart Association, Orange County Division  
 Lecturer, Cal State Univ, Fullerton Dept Nursing/UCI Family Nurse Practitioner  
 Program, Nursing 560 course
- 2006 Grand Rounds, Saddleback Memorial Hospital, Laguna Hills, CA  
 Speaker, UCI Stroke Center Community Lecture Dinner (twice)  
 Speaker, Florence Sylvester Senior Center, Laguna Hills, CA  
 Invited speaker, International Stroke Conference 2006, "Poststroke  
 Neuroplasticity: Factors Important to Motor Recovery Trial Design"  
 Speaker, "Functional Restoration for the Stroke Survivor: Informing the  
 Efforts of Engineers," State of the Science Workshop, La Jolla, CA  
 Pacific Hospital of Long Beach, Long Beach, CA  
 Instituto Neurociencias Buenos Aires, Buenos Aires, Argentina  
 Hotchkiss Brain Institute, University of Calgary, Alberta  
 Annual meeting, Neural Control of Movement, "Abnormal Movement" satellite  
 Speaker, American Stroke Association, Orange County Division, "Stroke  
 Awareness Month"  
 Speaker, Anaheim Chapter of Mended Hearts  
 Speaker, Edwards Lifesciences Scientific Advisory Board Meeting  
 Grand Rounds, Placentia Linda Hospital, Placentia, CA  
 Grand Rounds, Orange Coast Memorial Medical Center, Fountain Valley, CA  
 Grand Rounds, Dept. Physical Medicine Rehabilitation, Univ. Cincinnati, OH  
 Invited lecturer, 2006 Barrow Neurological Institute Stroke Update, Phoenix, AZ  
 Mission Stroke Support Group, Mission Viejo, CA  
 Orange Coast Chapter of Emergency Nurses Association, Newport Beach, CA  
 University of Florida, Neural Plasticity Symposium, Gainesville, FL  
 Neuroscience Stroke Symposium, on the 25th year of the Department of Neurology  
 at Henry Ford Hospital, Detroit, MI
- 2007 American Heart Association, Emergency Cardiovascular Care Forum, Azusa, CA  
 Neural Prosthesis Seminar, Case Western Reserve, Cleveland, OH  
 Invited lecturer, University of Oregon, Eugene, OR  
 Board of Directors, American Heart Association, Orange County Division  
 Speaker, Regents Point Senior Center, Irvine, CA  
 Speaker, Advances in Neurorehabilitation, at the Festival of International  
 Conferences on Caregiving, Disability, Aging, and Technology, Toronto, CA  
 Speaker, 3rd Annual Adv in Neurology, Methodist Neurologic Inst, Houston, TX



- Speaker, 2007 Regional Alzheimer's Disease Research Conference, Irvine, CA  
 Invited speaker, 8th Annual University of California Neurotrauma Meeting  
 Healthsouth Tustin Rehabilitation Hospital Stroke Support Group, Tustin, CA  
 Speaker, Timely Topics in Emergency Care, Irvine, CA  
 Grand Rounds, Dept. Neurology, Harbor-UCLA Medical Center, Torrance, CA  
 Invited speaker, Orange Senior Center, Orange, CA  
 Speaker, "World President Organization", Orange County Chapter.  
 Speaker, University High School Medical Club  
 Speaker, Osher Lifelong Learning Institute, UCI  
 Oasis Senior Center, Corona Del Mar, CA  
 2008 Featured Speaker, 12th Intl. Symposium on Neural Regeneration, Asilomar, CA  
 Speaker, Neurosciences Postgraduate Teaching Meeting, Dept. Neurology,  
 University of Cambridge, UK  
 Speaker, Faculty of Health, University of East Anglia, UK  
 American Soc Exper Neurotherapeutics, 10<sup>th</sup> annual meeting, Arlington, VA  
 Stroke Treatment Academic Industry Roundtable, VIth meeting, Arlington, VA  
 Grand Rounds, San Joaquin Community Hospital, Bakersfield, CA  
 Invited speaker, 26th Princeton Conference on Cerebrovascular Disease  
 Speaker, 60<sup>th</sup> annual meeting, American Academy of Neurology, Future of  
 Neuroscience Conference: Neural Repair  
 Keynote speaker, "Brain Plasticity Symposium", Univ. Florida, Gainesville, FL  
 Grand Rounds, Orange Coast Memorial Medical Center, Fountain Valley, CA  
 Speaker, Certified Neuroscience Registered Nurse Review Course, Irvine, CA  
 Speaker, National Stroke Association "Stroke: The Full Continuum of Care,"  
 Long Beach, CA  
 Grand Rounds, UCLA, Los Angeles, CA  
 Grand Rounds, Anaheim Memorial Medical Center, Anaheim, CA  
 12<sup>th</sup> annual St. Francis Medical Center Critical Care Symposium, Long Beach, CA  
 Lecturer, Human Cortical Physiology Lab, NINDS, Bethesda, MD  
 2009 Capitol Hill Symposium "The X Factor: Women and Stroke", Washington, DC  
 Transient Ischemic Attack Educational Program Dinner (twice), Brea, and Irvine, CA  
 Grand Rounds, Grossmont Hospital, La Mesa, CA  
 University of Southern California Neurorehabilitation Retreat, San Marino, CA  
 UCLA Ahmanson-Lovelace Brain Mapping Center Seminar, Westwood, CA  
 9<sup>th</sup> annual Orange County Emergency Care meeting, Santa Ana, CA  
 Speaker, Whittier Chapter of Mended Hearts  
 Grand Rounds, Dept. Neurology, Harbor-UCLA Medical Center, Torrance, CA  
 American Physical Therapy Assoc., annual research meeting, Asilomar, CA  
 Stroke & Neurocritical Care Conf, Western Medical Center, Santa Ana, CA  
 Grand Rounds, St. Jude Medical Center, Fullerton, CA  
 2009 Barrow Neurological Institute Stroke Update, Phoenix, AZ  
 UC San Diego, Dept. Psychology Seminar Series, La Jolla, CA  
 3rd Int'l Symposium of Competence Network Stroke, Berlin, Germany  
 2010 Healthsouth Tustin Rehabilitation Hospital Stroke Support Group, Tustin, CA  
 Grand Rounds, Long Beach Memorial Hospital, Long Beach, CA  
 Speaker, "Stem Cell Therapies as an Emerging Paradigm for Stroke" (STEPS-2)  
 meeting, Houston, TX  
 Invited speaker, 27th Princeton Conference on Cerebrovascular Disease  
 Coastline Community College, Brain Injury Class/Group

- Lecturer, PT523, "Functional Human Neuroanatomy" course, Chapman Univ., Orange, CA  
 University, Doctor of Physical Therapy Program, Orange, CA  
 Speaker, 11<sup>th</sup> Annual UC San Diego Stroke Conference, La Jolla, CA  
 Speaker, Integrative Neural Systems Underlying Vital Aerodigestive Tract  
 Functions, Madison, WI  
 9<sup>th</sup> Welsh Stroke Conference, Newport, Wales  
 University of Glasgow, SINAPSE lecture, Glasgow, Scotland  
 Asan Medical Center, Dept. Rehabilitation Medicine, Seoul, Korea  
 World Stroke Congress, Presidential Symposium, Seoul, Korea  
 Grand Rounds, Dept. Neurology, Harbor-UCLA Medical Center, Torrance, CA  
 2011 Grand Rounds, University of California San Diego, Dept. Neurology  
 Invited Plenary Session Speaker, National Institute of Child Health & Human  
 Development, Scientific Vision Plasticity Workshop  
 Speaker, Ezra Center, Anaheim, CA  
 Invited speaker, International Stroke Conference 2011, Los Angeles, CA  
 Invited speaker, Spring Brain 2011, Tucson, AZ  
 Association of Rehabilitation Nurses, LA/Orange County Chapter, Downey, CA  
 Invited speaker, "Entrenchment and Plasticity" conference, UC Santa Barbara  
 Grand Rounds, Harvard Longwood Neurology Program, Boston, MA  
 Grand Rounds, Massachusetts General Hospital, Boston, MA  
 Grand Rounds, New York-Presbyterian Hospital- Weill-Cornell, New York, NY  
 Speaker, 12<sup>th</sup> Annual UC San Diego Stroke Conference, La Jolla, CA  
 Lecturer, PT523, "Functional Human Neuroanatomy" course, Chapman Univ., Orange, CA  
 Walnut Village Senior Center, Anaheim, CA  
 Invited speaker, 5<sup>th</sup> Neurodegenerative Conditions Research & Development,  
 San Francisco, CA  
 Invited speaker, 136<sup>th</sup> annual meeting of the American Neurological  
 Association, San Diego, CA  
 Neurosciences Critical Care Rounds, Johns Hopkins University, Baltimore, MD  
 Neurosciences Plenary Grand Rounds, Medical University of South Carolina,  
 Charleston, SC  
 Silverado Senior Living Center, Costa Mesa, CA  
 Panelist, Caltech/MIT Enterprise Forum, Pasadena, CA  
 Festschrift for Jean-Claude Baron, Cambridge University, Cambridge, UK  
 Speaker, "Stem Cell Therapies as an Emerging Paradigm for Stroke" (STEPS-3)  
 meeting, Arlington, VA  
 2012 Invited lecturer, national webinar, sponsored by the American Heart  
 Association/American Stroke Association  
 Sharp Memorial Hospital, San Diego  
 Bridges to Stem Cell Scholars Program, California State University, Fullerton  
 Lakeview Senior Center, Irvine, CA  
 Lecturer, PT523, "Functional Human Neuroanatomy" course, Chapman Univ., Orange, CA  
 Lecturer, Orange County Emergency Medical Services Prehospital Providers  
 Awards Ceremony  
 Eric Corey Raps Memorial Lecture, Univ. of Pennsylvania, Philadelphia, PA  
 Oregon Stroke Network annual meeting, Portland, OR  
 Western States Stroke Consortium, Scottsdale, AZ  
 3<sup>rd</sup> Canadian Stroke Congress, Calgary, AB, Canada  
 2013 Grand Rounds, Dept. Neurology, Harbor-UCLA Medical Center, Torrance, CA

- Invited speaker, American Physical Therapy Association, Combined Sections Meeting, San Diego, CA
- Invited speaker, International Stroke Conference 2013, Honolulu, HI
- Speaker, American Academy of Neurology, 64<sup>th</sup> annual meeting  
“Neurorehabilitation Enhancement Techniques” session, San Diego, CA
- Speaker, 14<sup>th</sup> Annual UC San Diego Stroke Conference, La Jolla, CA
- Invited speaker, 22<sup>nd</sup> European Stroke Conference, London, UK
- Lecturer, PT523, “Functional Human Neuroanatomy” course, Chapman Univ., Orange, CA  
Orange Coast Memorial Medical Center, Fountain Valley, CA
- Invited speaker, 13<sup>th</sup> International Stroke Genetics Meeting, Charlottesville, VA
- Grand Rounds, Dept. Physical Medicine & Rehabilitation, Weill Cornell Medical Center, New York, NY.
- The XXI World Congress of Neurology, Vienna, Austria
- Tsukuba Global Science Week 2013, University of Tsukuba, Japan
- 2014 Grand Rounds, Dept. Neurology, Emory University
- Grand Rounds, Neurorehabilitation, Washington University, St Louis
- Keynote Address, Annual Interdisciplinary Stroke Course,  
Rehabilitation Institute of Chicago, Chicago, IL
- Grand Rounds, Providence Saint Joseph Medical Center, Burbank, CA
- Lecturer, PT523, “Functional Human Neuroanatomy” course, Chapman Univ., Orange, CA
- Lecturer, Scientific Workshop on Brain Plasticity, Hemispheric  
Specialization, and Neuro-Rehabilitation After Cerebral Hemispherectomy
- Lecturer, Orange County Emergency Medical Services Base Hospital  
Coordinators “No Fear: Stroke”
- Invited speaker (2 lectures), 139<sup>th</sup> annual meeting of the American Neurological Association, Baltimore, MD
- Speaker, Gerontological Society of America 2014 Annual Scientific Meeting  
Workshop “Aging, the Central Nervous System, and Mobility in Older Adults
- 2015 Invited speaker, International Stroke Conference 2015, Nashville, TN (2 talks)
- Invited Symposium, Experimental Biology 2015 Annual Meeting, Boston, MA
- Distinguished Speaker Conference, Spaulding Rehabilitation Hospital, Boston, MA
- Special Lecture, Dept. Neurology, UC San Francisco
- Invited speaker, 24<sup>th</sup> European Stroke Conference, Vienna, Austria
- Grand Rounds, Anaheim Regional Medical Center, Anaheim, CA
- Lecturer, PT523, “Functional Human Neuroanatomy” course, Chapman Univ., Orange, CA
- Invited speaker, 8<sup>th</sup> annual Yatsu Day Symposium, Univ Texas, Houston (x2)
- Grand Rounds, Dept. Neurology, University of Iowa, Iowa City, IA
- 16<sup>th</sup> University of California Neurotrauma Symposium, Santa Barbara, CA
- Grand Rounds, University of Washington, Seattle, WA
- American Society of Neurorehabilitation 2015 Annual Meeting, Chicago, IL
- Newport Beach Public Library “Medicine In Our Backyard” Lectures
- Invited speaker, Burke Centennial Neurorehab. Symposium, White Plains, NY
- Speaker, Schallert Fest, a research symposium for Dr. Timothy Schallert  
University of Texas, Austin
- Invited Seminar, Clinically Applied Rehabilitation Engineering Initiative at  
University of Texas, Austin
- 2016 Invited speaker, International Stroke Conference 2016, L.A., CA (2 talks)
- Invited speaker, American Physical Therapy Association, Combined Sections Meeting, Anaheim, CA (2 talks)

Mission Hospital, Rehabilitation Medicine  
 Los Alamitos Medical Center Rehabilitation Medicine  
 9<sup>th</sup> World Congress for Neurorehabilitation, Philadelphia, PA  
 University of Utah Elaine J. Skalabrin Stroke Symposium, Salt Lake City, UT  
 Rehabilitation Research At NIH: Moving The Field Forward, Bethesda, MD  
 Dept. Neurology, University of Washington, Seattle, WA  
 Lecturer, PT523, "Functional Human Neuroanatomy" course, Chapman Univ., Orange, CA  
 Center for Brain Plasticity and Recovery, Georgetown University, Washington, D.C.  
 IV STEP Conference, American Physical Therapy Association, Columbus, OH  
 National Space Biomedical Research Institute, Annual Sensorimotor Adaptation  
     Team Symposium "Brain Plasticity and Space Flight", Houston, TX  
 International Conference Stroke Update 2016, Jeju Island, Korea  
 Seoul National University Boramae Medical Center, Seoul, Korea  
 International Symposium on rTMS Treatments, Tokyo, Japan  
 Dept. Molecular Neuroscience, Osaka University, Osaka, Japan  
 Grand Rounds, Dept. Neurology, Harbor-UCLA Medical Center, Torrance, CA  
 Translational Stroke Research: Vision and Opportunities Workshop, Panel Member,  
     NIH, Bethesda, MD  
 5<sup>th</sup> Annual Symposium on Regenerative Rehabilitation, Emory Univ., Atlanta, GA  
 2016 American Society of Neurorehabilitation annual meeting, San Diego, CA  
 Brain Injury Association of California: TBI Med-Legal Conference, Napa, CA  
 Casa Colina, Rehabilitation Hospital, Pomona, CA  
 Speaker, 7<sup>th</sup> Annual Orange County Stroke Rehab Network's Cont. Education Workshop  
 Grand Rounds, Dept. Neurology, UCLA, Westwood, CA  
 2017 Grand Rounds, St. Mary's Medical Center, Long Beach, CA  
 Grand Rounds, Dept. Neurology, Cedars-Sinai Medical Center, Los Angeles, CA  
 NeuroRehabilitation Seminar Series, University of Southern California, Los Angeles, CA  
 Invited speaker, International Stroke Conference 2017, Houston, TX  
 Grand Rounds, Valley Presbyterian Hospital, Van Nuys, CA  
 Lecturer, PT523, "Functional Human Neuroanatomy" course, Chapman Univ., Orange, CA  
 Future of Healthcare Symposium, Chapman University, Orange, CA  
 Grand Rounds, Citrus Valley Medical Center, Covina, CA  
 Keynote speaker, Louisiana State University Health Science Campus School of Allied  
     Health Professions Research Symposium, New Orleans, LA  
 Grand Rounds, Orange Coast Memorial Medical Center, Fountain Valley, CA  
 Plenary speaker, 2017 Annual Spring Meeting of the Korean Stroke Society, Seoul, Korea  
 Lecturer, Dept. Neurology, Charles University in Prague, Hradec Kralove, Czech Republic  
 Grand Rounds, Anaheim Regional Medical Center, Anaheim, CA  
 Grand Rounds, Lakewood Regional Medical Center, Lakewood, CA  
 Grand Rounds, Huntington Beach Hospital, Huntington Beach, CA  
 Grand Rounds, Fountain Valley Regional Medical Center, Fountain Valley, CA  
 Grand Rounds, Pomona Valley Hospital Medical Center, Pomona, CA  
 Florey Institute of Neuroscience and Mental Health, Melbourne, Australia  
 Hunter Medical Research Institute, New Lambton Heights, Australia  
 Plenary Speaker, Rehabilitation Medicine Society of Australia and New Zealand 2017  
 Integrated Biomedical Sciences Seminar Series, Loma Linda University, Loma Linda, CA  
 Keynote speaker, Chinese Association of Rehabilitation Medicine, Xi'an, China  
 Keynote speaker, 9<sup>th</sup> Annual Practical Management of Acute Stroke, Cleveland Clinic,  
     Cleveland OH

- Invited speaker, 142<sup>nd</sup> annual meeting of the American Neurological Association, San Diego, CA
- 2018 Plenary Speaker, 2018 Brain Injury Summit, Vail, CO
- Invited speaker, International Stroke Conference 2018, Los Angeles, CA
- Invited speaker, Meitra Hospital, Calicut, India
- Invited speaker, 10<sup>th</sup> World Congress for Neurorehabilitation, Mumbai, India
- Grand Rounds, St. David's Medical Center, Austin, TX
- Lecturer, PT523, "Functional Human Neuroanatomy" course, Chapman Univ., Orange, CA
- Speaker, American Academy of Neurology, 70<sup>th</sup> annual meeting  
"Rehabilitation in Neurology" session, Los Angeles, CA
- Speaker, 4<sup>th</sup> European Stroke Organization Conference, Gothenburg, Sweden
- Plenary speaker, Harvard Medical School Neurorehabilitation 2018 course, Boston, MA
- Lecturer, Center for Neurotechnology and Neurorecovery, Massachusetts General Hospital, Boston, MA
- Grand Rounds, Garden Grove Hospital, Garden Grove, CA
- Lecturer, NIH StrokeNet Grand Rounds, national lecture via the web
- Keynote speaker, Chinese Association of Rehabilitation Medicine, Yinchuan, China
- Keynote speaker, Oregon Stroke Network 11th Annual Oregon Stroke Conference, Portland, OR
- Invited speaker, Telehealth Secrets 2018, Newark, CA
- Grand Rounds, Dept. Neurology, University of Rochester, Rochester, NY
- Barbro B Johansson Award in Stroke Recovery Lecture, 11th World Stroke Congress, Montreal, Canada
- Grand Rounds, Good Samaritan Hospital, Los Angeles, CA
- Lecturer, Pomona Valley Hospital Medical Center, 3<sup>rd</sup> Annual Neuro Symposium, Ontario, CA
- Invited speaker, American Association for the Advancement of Science Judicial Seminar  
"Emerging Issues in Neuroscience", La Jolla, CA
- Invited speaker, American Society for Neurorehabilitation, San Diego, CA
- Invited speaker, 24th Workshop of the International Stroke Genetics Consortium, Washington, DC
- Invited speaker, State of the Science in Post-Stroke Motor Recovery, Perth, Australia (tele-lecture)
- Speaker, 9<sup>th</sup> Annual Orange County Stroke Rehab Network's Cont. Education Workshop
- Lecturer, New York University, New York, NY
- 2019 Speaker, American Stroke Association Advisory Committee Meeting
- Invited speaker, International Stroke Conference, 2019, Honolulu, HI
- Grand Rounds, Citrus Valley Medical Center, Covina, CA
- Lecturer, PT523, "Functional Human Neuroanatomy" course, Chapman Univ., Orange, CA
- Grand Rounds, Anaheim Regional Medical Center, Anaheim, CA
- Invited lecture, Texas Biomedical Device Center, University of Texas, Dallas, TX
- Speaker, American Academy of Neurology, 71<sup>st</sup> annual meeting
- Invited Speaker, Stroke & Rehabilitation Conference, Univ. of Missouri, Columbia, MO
- Invited Speaker, Macau University of Science and Technology
- Invited Speaker, Chinese University of Hong Kong
- Keynote speaker, Chinese Association of Rehabilitation Medicine, Hefei, China
- Speaker, Enhancing Outcomes in Stroke Rehabilitation and Recovery, Cedars-Sinai Conference, LA, CA
- Presidential Lecture, 73rd annual meeting of the American Academy for Cerebral Palsy

and Developmental Medicine and International Alliance of Academies of Childhood Disability 2nd Tri-Annual Meeting, Anaheim, CA

Invited Speaker, NorthEast Cerebrovascular Consortium, Boston, MA

Lecturer, UC Irvine Comprehensive Stroke and Neurocritical Care Symposium, Orange, CA

Invited speaker, American Congress of Rehab. Medicine 96<sup>th</sup> annual meeting, Chicago, IL

Grand Rounds, Dept. Neurology, Cedars-Sinai Medical Center, Los Angeles, CA

Invited speaker, Center for Neurotechnology and Neurorecovery, Massachusetts General Hospital, Boston, MA

2020 Invited speaker, International Stroke Conference, 2020, Los Angeles, CA

Lecturer, PT523, "Functional Human Neuroanatomy" course, Chapman Univ., Orange, CA

Invited speaker, Academy of Brazilian Neurology Live Special

Lecturer, Sunrise Health Physical Medicine and Rehabilitation residency program, Las Vegas, NV

Lecturer, Neuropsychology Didactics lecture series, Neuropsychology Program, Cedars-Sinai Medical Center

Lecturer and Panelist, Brain Health, Innovation & Technologies (Brain-HIT2020), Israel

Lecturer, Pacific Stroke Association, Annual Stroke Conference 2020

Lecturer, California Rehabilitation Institute community lecture series

Invited speaker, American Congress of Rehab. Medicine 97<sup>th</sup> annual meeting, Atlanta, GA

Keynote speaker, 41st Annual Braintree Neurorehabilitation Conference, Boston, MA

Lecturer, Society of Vascular and Interventional Neurology 13th Annual Meeting

Grand Rounds, St. Louis University, St. Louis, MO

2021 Lecturer, PT523, "Functional Human Neuroanatomy" course, Chapman Univ., Orange, CA (multiple lectures)

Lecturer, Virginia Polytechnic Institute and State University Synapse Seminar Series

Invited speaker, International Stroke Conference, 2021

Speaker, NIH StrokeNet Network Webinar

Invited speaker, Distinguished Lectures In Neuroprosthetics, Swiss Federal Institute of Technology (EPFL)

Invited speaker, "Shaping the Future of TeleRehabilitation Through Research", Brown University, the Learning Health Systems Rehabilitation Research Network, and The Center on Health Services Training and Research Virtual Institute

Panelist, Johnson & Johnson and Healthcare Businesswomen's Association Virtual Stroke Event

Lecturer, Anaheim Regional Medical Center

Lecturer, Pacific Stroke Association, 21<sup>st</sup> Annual Stroke Conference

Panelist, Telemedicine and Teleteaching in the Age of COVID. Webinar (McMaster University and Eystart)

Stroke Grand Rounds, University of Texas, Houston

Invited speaker, 7th IEEE World Forum on the Internet of Things

Lecturer, Sunrise Health Physical Medicine and Rehabilitation residency program, Las Vegas, NV

Lecturer, XXIX Brazilian Congress of Neurology

Speaker, Workshop Hospital Albert Einstein, Sao Paulo, Brazil

Invited speaker, American Congress of Rehab. Medicine 98<sup>th</sup> annual meeting, Chicago, IL

Speaker, Cedars-Sinai 2021 Physical Medicine and Rehabilitation Conference: Creativity and Collaboration in Changing Times

Speaker, Eisenhower Medical Center, Rancho Mirage, CA

Invited speaker, Washington University, St. Louis, Hope Center Neurovascular Injury &

- Repair Research Group lecture series
- Keynote speaker, 5<sup>th</sup> Annual Neural Engineering Research Symposium, University of Miami
- Grand Rounds, Longwood Neurology Program (Beth Israel Deaconess Medical Center, Boston Children's Hospital, and Brigham and Women's Hospital)
- Grand Rounds, Dept. Neurology, Emory University
- 2022 48<sup>th</sup> Annual Meeting of the Clinical Neurological Society of America
- Invited speaker, International Stroke Conference, 2022
- Grand Rounds, Sharp Healthcare
- Moderator, 2022 Cedars-Sinai Physical Medicine & Rehabilitation Grand Rounds Educational Series
- NIH StrokeNet Clinical Trials Network Learning Community Monthly Lecture Series
- Lecturer, PT523, "Functional Human Neuroanatomy" course, Chapman Univ., Orange, CA
- International Stroke Genetics Consortium Global Alliance for Acute and Long-Term Outcome Studies Teleconference
- Grand Rounds, PIH Health Good Samaritan Hospital, Los Angeles, CA
- Invited speaker, AHA Bugher Hemorrhagic Stroke Scholar Seminar
- Invited speaker, Integrated Brain Imaging Center, University of Washington, Seattle, WA
- Invited speaker, American Academy of Neurology 2022 annual meeting
- Speaker, Orange County Stroke Rehab Network's Cont. Education Workshop 2022
- Invited speaker, Robotics and Technology in Rehabilitation Symposium, MossRehab, Philadelphia, PA
- Keynote Speaker, International Symposium on Patient Rehabilitation, Innovation And NeuroTechnologies (SPRINT); Institution de Lavigny and World Federation for Neurorehabilitation; Lausanne, Switzerland
- Lecturer, Humboldt-Del Norte Consortium, Eureka, CA
- Invited speaker, University College, Dublin, Ireland
- Speaker, "Utilizing Technology to Improve Outcomes in Rehabilitation," Los Angeles, CA
- Lecturer, Neurobiology 208A, University of California, Irvine
- Invited Speaker, 50<sup>th</sup> Anniversary Annual Meeting and International Conference of the Korean Academy of Rehabilitation Medicine
- 147<sup>th</sup> annual meeting of the American Neurological Association, Chicago, IL
- International Neurological Disorders and Neurophysiology Conference Shijiazhuang, China
- Invited speaker, American Congress of Rehab. Medicine 99<sup>th</sup> annual meeting, Chicago, IL
- 2023 Lecturer, California Rehabilitation Institute Lunch-&-Learn series
- Lecturer, Advances in Stroke Recovery 2023 Scientific Conference, Canadian Partnership for Stroke Recovery
- Grand Rounds, Dept. Neurology, University of Utah, Salt Lake City, UT
- Invited speaker, 28th International Stroke Genetics Consortium
- Keynote Speaker, Utah Stroke & Neuro-Rehabilitation Conference, Park City, UT
- Speaker, 2023 meeting of the American Society of Neurorehabilitation
- Invited speaker, STROKE 2023 (48th meeting, Japan Stroke Society; 52nd meeting, Japanese Society on Surgery for Cerebral Stroke; 39th SAH/Spasm Symposium)
- Invited speaker, Hackensack Meridian Health 11<sup>th</sup> Annual National Stroke Symposium, Eatontown, NJ
- Invited speaker, American Academy of Neurology 2023 annual meeting
- Grand Rounds, Dept. Neurology, University of Massachusetts, Worcester, MA

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### Book

“Brain Repair after Stroke,” SC Cramer & RJ Nudo, eds, Cambridge Univ Press, Cambridge, UK. 2010.

### Peer-Reviewed articles

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