**CURRICULUM VITAE**

**Brice McConnell, M.D., Ph.D.**

**EDUCATION**

2012, M.D. University of Colorado School of Medicine

2010, Ph.D. Molecular Biology, Dissertation: The role of LIMK1 subcellular compartmentalization in human breast cancer progression, University of Colorado

2002, B.S. Biochemistry, cum laude, Colorado State University

**PROFESSIONAL EXPERIENCE**

2017- Assistant Professor of Neurology at University of Colorado

2016- Member of the Rocky Mountain Alzheimer’s Disease Center

2016- 2017 Fellowship in Behavioral Neurology and Neuropsychiatry

2013-2016 Residency in Neurology at University of Colorado Hospital

2012-2013 Internship in Internal Medicine at University of Colorado Hospital

**LICENCING AND PROFESSIONAL MEMBERSHIPS**

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| 2012 -  2013 -  2016 -  2017- | State of Colorado Medical License  Member, American Academy of Neurology  Board Certification, American Board of Psychiatry and Neurology  Member, American Neuropsychiatric Association |

**HONORS/AWARDS**

2012 Franklin Ebaugh Award for Outstanding Performance in Psychiatry

2005 Letter of Commendation for Superior Achievement in Medicine 6000: Pathophysiology of Disease

2002 McNair Scholars Program, Colorado State University

2002 Award of Highest Distinction – 8th Annual Undergraduate Research and Creativity Symposium

**AWARDED GRANT SUPPORT**

Colorado Clinical and Translational Sciences Institute CCTSI/CO-PILOT

MCCONNELL, BRICE (PI)

10/25/2017 – 10/31/2017

Application of Transcranial Alternating Current Stimulation for Modulation of Sleep and Cognitive Performance in Patients with Mild Cognitive Impairment

The goal of this award is to develop technological methods via a series of pilot-scale randomized, controlled clinical trials testing an at-home, automated system to deliver transcranial alternating current stimulation (tACS) during slow wave sleep for treatment of sleep and cognitive impairment among patients with amnestic mild cognitive impairment (aMCI).

Role: PI

University of Colorado Department of Neurology Career Development Grant

MCCONNELL, BRICE (PI)

(Awarded in October 2017, pending start date)

Modulation of Sleep and Cognitive Performance by Sleep-Network Transcranial Electrical Stimulation

This is a research project to design and validate a novel method of transcranial electrical stimulation to stimulate nodes of the functional brain network that is critical for memory consolidation during non-rapid eye movement slow wave sleep.

Role: PI

**COMPLETED GRANT SUPPORT**

T32 GM008497-19

GUTIERREZ-HARTMANN, ARTHUR  (PI)

07/01/93-06/30/13

Institutional National Training Award

I was mentee under Dr. Gutierrez-Hartmann in this Medical Scientist Training Program (MSTP) grant during graduate school. My graduate school thesis work focused on cell culture and animal models of breast cancer invasion and metastasis.

Role: TA

W81XWH-06-1-0777, Department of Defense (DOD)

MCCONNELL, BRICE (PI)

09/25/07-09/25/10

Defining the Role of LIM-Kinase 1 (LIMK1) Subcellular Compartmentalization in Breast Cancer Invasion and Migration

This was a 3-year pre-doctoral training grant awarded to me under the mentorship of Dr. Gutierrez-Hartmann for study of LIMK1 in breast cancer invasion and metastasis.

Role: PI

**PEER REVIEWED PUBLICATIONS**

Filley CM, **McConnell B**, Anderson CA. The Expanding Prominence of Toxic Leukoencephalopathy. J Neuropsychiatry Clin Neurosci. (Accepted manuscript, pending publication 2017)

Borah S, **McConnell B**, Hughes R, Kluger B. Potential relationship of self-injurious behavior to right temporo-parietal lesions. Neurocase. 2016 Feb 16:1-4. Cited in PubMed PMID: 26882285

**McConnell BV**, Applegate M, Keniston A, Kluger B, Maa EH. Use of complementary and alternative medicine in an urban county hospital epilepsy clinic. Epilepsy Behavior. 2014 May;34:73-6. Cited in PubMed PMID: 24726950.

**McConnell B**, Masny PS, Kluger BM. Opisthotonic posturing in an adult with a cerebellopontine angle mass. Mov Disord. 2012 Aug;27(9):1093. Cited in PubMed PMID: 22865376

**McConnell BV**, Koto K, Gutierrez-Hartmann A. Nuclear and cytoplasmic LIMK1 enhances human breast cancer progression. Molecular Cancer. 2011 Jun; 10(75): 1-13. Cited in PubMed; PMID: 21682918.

**NATIONAL POSTER PRESENTATIONS**

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| **McConnell B**, Teale P, Kronberg E, Kluger B. Development of an Automated System to Apply Transcranial Alternating Current Stimulation for Modulation of Sleep. American Neuropsychiatric Association 28th Annual Meeting; 2017 March; Atlanta, GA, USA  **McConnell BV**, Gutierrez-Hartmann A. (2008, June). *Defining the Role of Nuclear LIMK1 in Breast Cancer Metastasis*. Poster presented at: Era of Hope DOD Breast Cancer Research Program Meeting; Baltimore, MD. |
| **McConnell BV**, Gutierrez-Hartmann A. (2006, September). *The Structure/Function Relationship of LIMK1 in Breast Cancer Migration and Invasion*. Poster presented at: 25th Congress of the International Association for Breast Cancer; Quebec, Canada. |

**EDUCATIONAL ACHIEVEMENTS**

**Invited Lectures and Presentations:**

**McConnell B.** Transcranial Direct Current Stimulation: A Grounded Discussion on an Electrified Topic. Invited Speaker. University of Colorado Behavioral Neurology and Neuropsychiatry Conference, Aurora, CO. April 2016.

**McConnell B.** The Neurological Basis of Sleep-Dependent Memory and Cognition: Implications for Treatment in Aging and Dementia. Invited Speaker. Colorado Mental Health Institute, Pueblo, CO. May 2017.

**McConnell B.** Transcranial Electrical Stimulation (tES): A Stimulating Discussion of Current Research. Invited Speaker. University of Colorado Neurology Grand Rounds, Aurora, CO. May 2017.

**McConnell B.** Emerging Treatments in Behavioral Neurology. Invited Lecturer. University of Colorado Neurology Resident Education, Aurora, CO. June 2017.

**McConnell B.** “Confusion”: A Neuropsychiatric Approach. Invited Lecturer. University of Colorado School of Medicine, Aurora, CO. August 2017.

**McConnell B.** FTD: Pharmacological Management Strategies. Invited Speaker. Michael K. Cooper Neuropsychiatry Conference: “Frontotemporal Dementia”, Aurora, CO. September 2017.

**McConnell B.** The Role of Sleep and Lifestyle in Aging and Alzheimer’s Disease. Invited Speaker. Rocky Mountain Alzheimer’s Center Research Appreciation Event, Aurora, CO. September 2017.

**ONGOING CONTRIBUTIONS TO CLINICAL TRIALS**

I am currently conducting a randomized, controlled clinical trial to evaluate transcranial electrical stimulation as a possible treatment for mild cognitive impairment:  
  
COMIRB# 16-1875  
Application of transcranial alternating current stimulation for modulation of sleep and cognitive performance.  
PI: Brice McConnell  
  
I am co-investigator for a pilot study to evaluate the use of transcranial electrical stimulation as a possible treatment for cervical dystonia:  
  
COMIRB#: 17-1322  
Transcranial electrical stimulation for the treatment of cervical dystonia  
PI: Brian Berman  
  
I am sub-investigator for several clinical trials through my role in the Rocky Mountain Alzheimer's Disease Center:  
  
Leukine 3-week  
COMIRB# 12-1273  
Pilot Phase 2 Trial of the Safety & Efficacy of GM-CSF (Leukine®) in the Treatment of Alzheimer’s Disease  
PI: Huntington Potter  
   
Standard of Care  
COMIRB# 15-0122  
Rocky Mountain Alzheimer’s Disease Center at the University of Colorado School of Medicine (RMADC at UCSOM) Standard of Care Longitudinal Database for the Study of Alzheimer’s Disease, Dementia, and Down Syndrome  
PI: Jonathan Woodcock  
   
Bio-AD  
COMIRB# 15-1774  
Rocky Mountain Alzheimer’s Disease Center at the University of Colorado School of Medicine (RMADC at UCSOM) Longitudinal Biomarker and Clinical Phenotyping Study  
PI: Brianne Bettcher  
   
Bio-AD PET  
COMIRB# 16-2064  
Amyloid Imaging with 11C-PiB in Healthy Aging and Mild Cognitive Impairment  
PI: Brianne Bettcher  
   
Biogen  
WIRB Protocol# 20150820  
COMIRB# 15-2330  
A Phase 3 Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of Aducanumab (BIIB037)in Subjects with Early Alzheimer's Disease  
PI: Jonathan Woodcock  
   
Brain Bank  
COMIRB# 15-1325  
University of Colorado School of Medicine – Rocky Mountain Alzheimer’s Disease Center (UCSOM RMADC) Tissue Bank  
PI: Huntington Potter  
   
IDEAS  
COMIRB# 15-2212  
Imaging Dementia – Evidence for Amyloid Scanning (IDEAS) Study: A Coverage with Evidence Development Longitudinal Cohort Study  
PI: Jonathan Woodcock  
   
6-month Leukine  
COMIRB# 17-0215  
A Pilot Randomized Double-Blind Placebo-Controlled Phase 2 Trial of the Safety, Efficacy, and Long-Term Tolerability of GM-CSF (Leukine®) in the Treatment of Alzheimer's Disease  
PI: Huntington Potter

**ADDITIONAL SCIENTIFIC CONTRIBUTIONS**

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| 2016 -  2016 -  2017 -    2017 - | Member of Rocky Mountain Alzheimer's Center (RMADC) Clinical Core Team  Site sponsor for the Regis Neurosciences Internship Program.  Preceptor for Foundations of Doctoring Clinical Education, University of Colorado School of Medicine  Ad hoc reviewer, The Journal of Neuropsychiatry and Clinical Neurosciences |