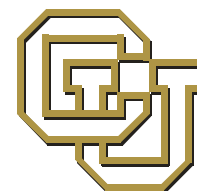




## CURRICULUM VITAE



**Benzi M. Kluger, M.D., M.S.**

### 1. Personal history

Assistant Professor of Neurology

Academic Address:

Academic Office 1, Rm 5219  
12631 East 17<sup>th</sup> Avenue, Box B185  
Aurora, CO 80045  
Phone: (303) 724-2194  
Fax: (303) 724-2212

Clinic Address

1635 Aurora Ct.  
4<sup>th</sup> Floor, Neurology  
Aurora, CO 80045  
Phone: (720) 848-2080  
Fax: (720) 848-2106

Clinical Practice:

University of Colorado Hospital  
Anschutz Outpatient Pavilion  
1635 Aurora Ct.,  
Aurora, CO 80045  
Phone: 720-848-2080

Research Affiliation:

Clinical Translational  
Research Clinic  
12401 E 17<sup>th</sup> Ave,  
B141,  
Aurora, CO 80045

### 2. Education

- 2006-2008 MS in Clinical Investigation; University of Florida, Gainesville, FL
- 1997-2001 MD; University of Colorado School of Medicine, Aurora, CO
- 1994-1997 BA in Psychology; University of Colorado at Boulder, Boulder, CO

#### Post-doctoral training and employment

- 2007-2008 Fellowship in Movement Disorders, University of Florida, Gainesville, FL
- 2005-2007 Fellowship in Behavioral Neurology University of Florida, Gainesville, FL
- 2002-2005 Residency in Neurology; University of Colorado, Aurora, CO
- 2001-2002 Internship in Internal Medicine; University of Colorado, Aurora, CO

### 3. Academic appointments

- 2007-2008 Courtesy Assistant Professor, Department of Neurology, University of Florida, Gainesville, Florida
- 2008- Assistant Professor, Departments of Neurology and Psychiatry, UCD
- 2008- Director, Transcranial Magnetic Stimulation Laboratory, UCD
- 2009-2010 Director, Division of Movement Disorders and Movement Disorders Fellowship Program, UCD

### 4. Hospital, government or other professional positions

- 2008- Faculty Advisor, Behavioral Neurology and Neuropsychiatry Fellowship, University of Colorado School of Medicine
- 2008- Clinical Advisor, Thriving After Cancer Treatment is Complete (TACTIC) Program, The Children's Hospital and University of Colorado Hospital
- 2009-2010 Program Director, Movement Disorders Program, University of Colorado Hospital
- 2009- Grant Reviewer, Parkinson's Disease Society, United Kingdom

## 5. Honors, special recognitions and awards

- **Assistant Professor**
  - **07/2010 Colorado Clinical and Translational Sciences Institute Clinical Faculty Scholar**
  - **08/2010 National Institutes of Neurological Disease and Stroke Clinical Trials Course Scholarship**
- **Fellowship**
  - 09/2007 Travel Award to the Florida Society of Neurology's Residents and Fellows Research Day
  - 08/2007 Scholarship to University of California at Davis Center for Mind and Brain course in Event Related Potentials (NIH sponsored course. Director: Steve Luck).
  - 07/2006 Advanced Post-graduate Program in Clinical Investigation fellow (NIH K-30 program).
  - 04/2006 American Academy of Neurology Foundation Corporate Roundtable Clinical Research Fellowship.
  - 07/2005 Travel award to EEG and Clinical Neuroscience Society meeting in Munich, Germany.
- **Residency**
  - 02/2005 American Neuropsychiatric Association's Young Investigator Award.
  - 02/2004 American Academy of Neurology Annual Meeting Scholarship.
  - 05/2003 Outstanding Clinical Teacher, University of Colorado School of Medicine.
- **Medical School**
  - 2001 Voted "Most Likely on Cover of Time" by Graduating Class.
  - 1999 & 2000 Colorado Representative to Western Medical Student Research Forum.
  - 1998 C. Everett Koop Award, American Society for Clinical Nutrition.
  - 1998 Best Nutrition Abstract, Western Medical Student Research Forum
- **College**
  - 1997 Member Phi Beta Kappa.
  - 1996-1997 Dean's scholarship.
  - 1994-1997 Dean's list.
  - 1994 CU Alumni Association Scholarship.

## 6. Memberships in professional organization

- 2002 American Academy of Neurology, Member
- 2005 American Neuropsychiatric Association, Member
- 2006 Society for Behavioral and Cognitive Neurology, Member
- 2006 Cognitive Neuroscience Society, Member
- 2008 Movement Disorders Society

## 7. Major Committee and Service Responsibilities

- **2010- Member, Parkinson's Association of the Rockies Program Committee**

## 8. Licensure and board certification

- 2006 American Board of Psychiatry and Neurology, Certificate # 53650

- 2008 Colorado, License # 46993

## **9. Inventions, intellectual property and patents held or pending**

## **10. Review and referee work**

- Editorial Board, *Frontiers in Movement Disorders*
- Ad Hoc Reviewer, *Brain Injury*
- Ad Hoc Reviewer, *Clinical Neurophysiology*
- Ad Hoc Reviewer, *The American Journal of Geriatric Pharmacotherapy*
- Ad Hoc Reviewer, *Movement Disorders*

## **11. Invited extramural lectures, presentations and visiting professorships**

1. Abstract presentation, Western Medical Student Research Forum, "Zinc homeostasis in infants with cystic fibrosis", Carmel, CA, February 17, 1998.
2. Poster presentation, American Neuropsychiatric Association Annual Meeting, "Volitional Action as Assessed by Magnetoencephalography", Bal Harbour, FL, February 27, 2005.
3. Neurology Grand Rounds, "The Neurology of Free Will", Department of Neurology, University of Colorado, Denver, CO, April 6, 2005.
4. Poster presentation, EEG and Clinical Neuroscience and International Society for Neuroimaging in Psychiatry joint conference, "Volitional action as assessed by magnetoencephalography", Munich, Germany, September 8, 2005.
5. Invited speaker, Center for Neuropsychological Studies Symposium, "The Neurology of Free Will", University of Florida, Gainesville, FL, October 21, 2005.
6. Invited speaker, Florida Society for Neurology's 32<sup>nd</sup> Annual Course in Neuropsychology and Behavioral Neurology, "Aging and Fatigue", Orlando, FL, December 16, 2006.
7. Invited speaker, 5<sup>th</sup> Gator pre-International Society for Neuropsychology Neuroscience Meeting, "The Neuropsychology of Fatigue", Mount Hood, OR, February 4, 2007.
8. Poster presentation, International Society for Neuropsychology Annual Meeting, "Dysfunctional facial emotional expression and comprehension in a patient with corticobasal degeneration", Portland, OR, February 7, 2007.
9. Poster presentation, College of Medicine Research Day, "Somatosensory evoked potentials and the timing of perception", University of Florida, March 20, 2007.
10. Poster presentation, American Academy of Neurology Annual Meeting, "A test of the mechanisms of sensory extinction to simultaneous stimulation", Boston, MA, May 1, 2007.
11. Poster presentation, Cognitive Neuroscience Society Annual Meeting, "An fMRI study of the crossed response inhibition test in Parkinson's Disease", Manhattan, NY, May 6, 2007.
12. Poster presentation, Advances in Neurology and the 2<sup>nd</sup> Florida Neurology Residents and Fellows Research Day, "Neuropsychological Correlates of Fatigue in Parkinson's Disease", Orlando, FL, September 29, 2007.
13. Invited speaker, Florida Society for Neurology's 33<sup>rd</sup> Annual Course in Neuropsychology and Behavioral Neurology, "Fatigue in Aging and Dementia", Gainesville, FL, December 8, 2007.
14. Invited speaker, Center for Neuropsychological Studies Symposium, "Objective Cognitive Fatigue in Parkinson's Disease", University of Florida, Gainesville, FL, April 11, 2008.
15. Poster presentation, American Academy of Neurology Annual Meeting, "The Prevalence and Clinical Significance of Fatigue following Deep Brain Stimulation in Parkinson's Disease", Chicago, IL, April 16, 2008.
16. Invited speaker, Tyler's Hope Dystonia Think Tank, "Non-Motor Symptoms of Dystonia", University of Florida, Gainesville, FL, March 10, 2009.

17. Invited speaker, Parkinson's Partner Support Group, "Non-motor Symptoms of Parkinson's disease", Scheitler Recreation Center, Denver, CO, March 25, 2009.
18. Invited speaker, University of Colorado Brain Imaging Center, "Transcranial Magnetic Stimulation", University of Colorado Denver, Aurora, CO, May 5, 2009.
19. Invited Speaker, Avera McKennan Hospital and University Health Center Neurosciences Grand Rounds, "Parkinson's Disease Update", Sioux Falls, SD, October 15, 2009.
20. Invited Speaker, Parkinson's Association of the Rockies Patient Education Seminar, "Management of Nonmotor Symptoms," Saint Joseph's Hospital, Denver, CO, February 27, 2010.
21. Invited Speaker, Creighton University Parkinson's Symposium, "Nonmotor Symptoms in Parkinson's Disease," Sandhills Convention Center, North Platte, NE, May 21, 2010.
22. Invited Speaker, University of Denver, "Neurologic Illnesses in an Aging Population: Alzheimer's, Parkinson's, and More," Osher Lifelong Learning Institute Speakers Series, Leading Edge Medicine: The Latest in Research and Treatment, Denver, CO, January 20, 2011.
23. Invited Speaker, University of Denver, "Memory Loss and Enhancement, Myths and Reality," Osher Lifelong Learning Institute Speakers Series, Leading Edge Medicine: The Latest in Research and Treatment, Denver, CO, January 26, 2011.

## 12. Teaching record

- 2004-2005 Residency Education Director, University of Colorado
- 2005-2008 "Delirium and Dementia" (medical students), University of Florida
- 2007 "Behavioral and Cognitive Neurology" (medical students), University of Florida
- 2009 "Pharmacologic treatment of Parkinson's disease" (medical students), UCD
- 2009 "Medical treatment of Movement disorders" (neurology residents), UCD
- 2010 Movement Disorders Fellowship Director, UCD

## 13. Grant support

- **Current**
  - 2007-2011 NIH Clinical Research Loan Repayment Program (\$32,000).
  - 2006-2011 NINDS Genetic and Environmental Risk Factors for Progressive Supranuclear Palsy (\$2,747,911)
  - 2007-2009 Cure PSP sponsored Progressive Supranuclear Palsy Natural History Study (\$100,000)
  - 2010-2012 TEVA sponsored Rasagiline for the Symptomatic Treatment of Fatigue in PD (\$121,125)
  - 2010-2013 Michael J. Fox Foundation sponsored Acupuncture as a Symptomatic Treatment for Fatigue in PD (477,210)
  - 2010-2013 Study of the Neurophysiology of the Central Fatigue (325,000)
  - 2010-2013 A Novel Approach to Cognitive Dysfunction in Parkinson's Disease (112,900)
- **Completed**
  - 2008-2010 Neurologix, Inc.'s Phase 2 Safety and Efficacy Study Evaluating Glutamic Acid Decarboxylase Gene Transfer to the Subthalamic Nuclei in Subjects with Advanced Parkinson's Disease (\$526,600)
  - 2009-2010 Michael J. Fox Foundation sponsored Phenylbutyrate to Prevent Progression of Parkinson's Disease (\$75,000)

- 2009 University of Colorado Denver Dean's Academic Enrichment Fund of the School of Medicine for Strategic Infrastructure Research Initiative (\$73,000).
- 2006-2008 American Academy of Neurology Corporate Roundtable Clinical Research Fellowship (\$130,000).
- 1997 University of Colorado Cancer Center Summer Student Fellowship (\$2000).
- 1996 University of Colorado Cancer Center Summer Student Fellowship (\$2000).

## 14. Bibliography

### • Peer reviewed Journal Articles

1. Kuyper DJ, Parra V, Aerts S, Okun MS, **Kluger BM**. Nonmotor manifestations of dystonia: A systematic review. *Movement Disorders*. 2011; [epub ahead of print].
2. Classen S, McCarthy DP, Schectman O, Awadzi KD, Lanford DN, Okun MS, Rodriguez RL, Romrell J, Bridges S, **Kluger B**, Fernandez HH. Useful field of view as a reliable screening measure of driving performance in people with Parkinson's disease: results of a pilot study. *Traffic Inj Prev*. In Press.
3. Triggs WJ, Ricciuti N, Ward HE, Cheng J, Bowers D, Goodman WK, **Kluger BM**, Nadeau SE. rTMS Treatment of refractory depression: Stimulus laterality effect exceeds rTMS effect. *Psychiatry Res*. 2010; 178(3):467-74.
4. **Kluger BM**, Foote KD, Jacobson CE, Okun MS. Lessons learned from a large single center cohort of patients referred for DBS management. *Parkinsonism and Related Disorders*. 2010; epub.
5. Antoniello D, **Kluger B**, Sahlein DH, Heilman KM. Phantom limb after stroke: an underreported phenomenon. *Cortex*. 2009.
6. **Kluger BM**, Garvan CW, Loring DW, Juras DM, Townsend DT, Heilman KM, Meador KJ. Loss of somatosensory evoked potentials and the timing of perception. *Cogn Behav Neurol*. 2009; 22(3):173-9.
7. Soeder A, **Kluger BM**, Okun MS, Garvan CW, Soeder T, Jacobson CE, Rodriguez RL, Turner R, Fernandez HH. Mood and Energy Determinants of Quality of Life in Dystonia. *J Neurol*. 2009; 256(6):996-1001.
8. **Kluger BM**, Klepitskaya O, Okun MS. Surgical Treatment of Movement Disorders. *Neurol Clin*; 2009; 27(3):633-677.
9. **Kluger BM**, Saunders LV, Hou W, Garvan CW, Kirli S, Efros DB, Chau QN, Crucian GP, Finney GR, Meador KJ, Heilman KM. A brief computerized self-screen for dementia. *J Clin Exp Neuropsychol*. 2009; 31(2):234-244.
10. Drago V, Foster PS, Skidmore FM, **Kluger B**, Antoniello D, Heilman KM. Attentional grasp in Parkinson disease. *Cogn Behav Neurol*. 2008; 21(3):138-142.
11. **Kluger BM**, Meador KJ. Teratogenicity of Antiepileptic Medications. *Semin Neurol*. 2008; 28(3):328-335.
12. Heilman KM, Coenen A, **Kluger BM**. Asymmetric Apraxic Agraphia: An Early Sign of Corticobasal Degeneration. *Cogn Behav Neurol*. 2008; 21(1):4-7.
13. **Kluger BM**, Meador KJ, Garvan CW, Loring DW, Juras DM, Townsend DT, Heilman KM. A test of the mechanisms of sensory extinction to simultaneous stimulation. *Neurology*. 2008; 70(18):1644-1645.
14. **Kluger BM**, Hughes RL, Anderson CA, Hassell KM. Non-traumatic carotid dissection and stroke associated with anti-phospholipid antibody syndrome. *Neurol India*. 2008; 56(1):77-78.
15. **Kluger BM**, Triggs WJ. Uses of transcranial magnetic stimulation to influence behavior. *Curr Neurol Neurosci Rep*. 2007; 6(7):491-497.

16. **Kluger BM**, Heilman KM. Disruption of reciprocal coordination by a medial frontal stroke sparing the corpus callosum. *Cogn Behav Neurol*. 2007; 20(4):230-231.
17. **Kluger BM**, Heilman KM. Dysfunctional facial emotional expression and comprehension in a patient with corticobasal degeneration. *Neurocase*. 2007; 13(3):165-168.
18. Drago V, Foster PS, Trifiletti D, Fitzgerald DB, **Kluger BM**, Crucian GP, Heilman KM. What's inside the art? The influence of frontotemporal dementia in art production. *Neurology*. 2006; 67(7):1285-1287.
19. Krebs NF, Westcott JE, Arnold TD, **Kluger BM**, Accurso FJ, Miller LV, Hambidge KM. Abnormalities in Zinc Homeostasis in Young Infants with Cystic Fibrosis. *Pediatr Res*. 2000; 48(2):256-261.

- **Abstracts**

1. **Kluger BM**, Arnold TD, Miller LV, Accurso FJ, Krebs NF. Zinc homeostasis in infants with cystic fibrosis. *J Investig Med*. 1997; 46(1):67A.
2. **Kluger BM**, Rojas DC, Kronenberg E, Filley CM. Volitional Action as Assessed by Magnetoencephalography. *J Neuropsychiatry Clin Neurosci*. 2005; 17:274.
3. **Kluger BM**, Rojas DC, Kronenberg E, Filley CM. Volitional Action as Assessed by Magnetoencephalography. *Clin EEG and Neurosci*. 2005; 36(3): 246.
4. **Kluger BM**, Heilman KM. Dysfunctional facial emotional expression and comprehension in a patient with corticobasal degeneration. *J Int Neuropsychol Soci*. 2007; 13 (suppl 1); 13.
5. **Kluger BM**, Meador KJ, Loring DW, Townsend D, Heilman KM. A test of the mechanisms of sensory extinction to simultaneous stimulation. *Neurology*. 2007; 68(Suppl 1):A8.
6. **Kluger B**, White K, McGregor K, Drago V, Mizuno T, Crosson B, Okun M, Heilman K. An fMRI study of the crossed response inhibition test in Parkinson's Disease. *Proceedings of the 13th Annual Cognitive Neuroscience Society Annual Meeting*. 2007; 101.
7. Rogalski Y, Dieuvil M, **Kluger B**, Heilman K. Aging and Affect: Emotional Word and Picture Ratings in Older versus Younger Adults. *J J Int Neuropsychol Soci*. 2008; 14 (suppl 1); 164.
8. Dieuvil M, Rogalski Y, **Kluger B**, Beversdorf D, Raymer A, Williamson D, Heilman K. Assessment of Emotional Semantics in Early Alzheimer's Disease. *J Int Neuropsychol Soci*. 2008; 14 (suppl 1); 267.
9. **Kluger BM**, Garvan CW, Jacobson C, Bowers D, Fogel A, Skoblar B, Rodriguez R, Fernandez HH, Okun MS. The Prevalence and Clinical Significance of Fatigue following Deep Brain Stimulator Surgery in Parkinson's Disease. *Neurology*. 2008; 70(Suppl 1): A177.
10. Saunders LV, Chau QN, **Kluger BM**, Garvan CW, Kirli S, Efros DB, Crucian GP, Finney GR, Meador KJ, Heilman KM. A brief computerized self-screen for dementia. *Neurology*. 2008; 70(Suppl 1): A184-5.
11. Malaty IA, **Kluger B**, Jacobson C, Okun M, Fernandez H. Detecting Depression in Parkinson's Disease: How Useful is the Unified Parkinson Disease Rating Scale? *Neurology*. 2008; 70(Suppl 1): A287.
12. McCarthy DP, Justiss MD, Lanford D, **Kluger B**, Okun M, Rodriguez RL, Romrell J, Mann WC, Rodriguez E, Faucher FF, Wu S, Fernandez H. Useful Field of View Performance among Drivers with Parkinson's Disease. *Neurology*. 2008; 70(Suppl 1): A51.

13. Proemsey JB, **Kluger B**, Rajagovindan R, Ding B, Skidmore R, Okun M, Heilman K. A Study of Cognitive Fatigue. *Neurology*. 2009; 72(Supp. 3):A323.
  14. Klepitskaya OS, Fowler JJ, **Kluger BM**, Ojemann SG. Number of microelectrode recording passes during bilateral staged vs. Unstaged deep-brain stimulation surgery for Parkinson's disease. *Mov Disord*, 2009; 24(Suppl 1): S485.
  15. Andersen C, **Kluger B**, Garvan C, Classen S, Fernandez H, Mennemeier M, McCarthy D. Magnitude estimation in Parkinson's disease. *Mov Disord*, 2009(Suppl 1):S289
  16. Aerts S, Schenkman M, Riolo L, Zheng C, Kumar R, **Kluger B**. Executive Function and Functional Mobility in Parkinson's Disease. *J Int Neuropsychol Soci*. 2010; 16(Suppl 1): 115
  17. Parra V, Garvan C, Jacobson C, Rodriguez R, Fernandez H, Fogel A, Skoblar B, Bowers D, Okun M, **Kluger B**. The Prevalence and Clinical Significance of Fatigue following Deep Brain Surgery in Parkinson's Disease. *J Int Neuropsychol Soci*. 2010; 16(Suppl 1): 51
- **Book chapters, invited articles, and reviews in non peer-reviewed journals**
    1. **Kluger BM**, Fernandez HH. Management of Non-motor Manifestations of Parkinson's Disease. In Simuni T and Pahwa R, eds. *Parkinson's Disease: A Practical Guide to Diagnosis and Management*, In Press.
    2. **Kluger BM**, Friedman JH. Fatigue in Parkinson's Disease. In Chaudhuri K, Tolosa E, Schapira A, Poewe W, eds. *The Non-motor Symptoms Complex of Parkinson's Disease*, In Press.
    3. **Kluger BM**. Perception and Recognition. In Arciniegas DB, Anderson CA, Filley CM, eds. *Behavioral Neurology and Neuropsychiatry*, In Press.

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