

CURRICULUM VITAE

Ann C. McKee, M.D.

ACADEMIC TRAINING:

- 1975 B.S. University of Wisconsin, Madison, Wisconsin
1979 M.D. Case Western Reserve School of Medicine, Cleveland, Ohio

POSTDOCTORAL TRAINING:

- 1979 -1980 Intern in Internal Medicine, Cleveland Metropolitan General Hospital
1980 - 1981 Junior Assistant Resident in Internal Medicine, Cleveland Metropolitan General Hospital
1981 -1982 Senior Assistant Resident in Internal Medicine and Junior Assistant Resident in Neurology, Cleveland Metropolitan General Hospital
1982 -1983 Senior Assistant Resident in Neurology, Cleveland Metropolitan General Hospital
1983 - 1984 Chief Resident in Neurology and Neuropathology, Cleveland Metropolitan General
1984 - 1985 Fellow in the Neurology of Aging, University of Massachusetts Medical Center
1986 - 1988 Chief Resident in Neuropathology, Massachusetts General Hospital
1988 - 1989 Resident in Pathology, Massachusetts General Hospital

ACADEMIC APPOINTMENTS:

- 1984 - 1985 Clinical Fellow in Neurology, University of Massachusetts Medical Center
1986 - 1989 Clinical Fellow in Neuropathology (Pathology), Harvard Medical School
1989 - 1991 Instructor in Neuropathology (Pathology), Harvard Medical School
1991 - 1994 Assistant Professor in Neuropathology (Pathology), Harvard Medical School
1994 - 2011 Associate Professor in Neurology & Pathology, Boston University School of Medicine
2011 - Professor in Neurology & Pathology, Boston University School of Medicine

HOSPITAL APPOINTMENTS:

- 1991 - 1994 Assistant Pathologist (Neuropathology), Massachusetts General Hospital
1994 - 2006 Staff member, Boston Medical Center
1994 - Staff member, Bedford Veterans Administration Medical Center
2009 - Staff member, Boston Veterans Administration Medical Center
2010- Clinical privileges: Boston, Bedford, Togus, Providence VAMCs

AWARDS, HONORS:

1984 Cleveland Neuroscience Research Award

1984 Cleveland Metropolitan General Hospital Resident Research Award

1989 Career Investigator Development Award, sponsored by the National Institute of Neurological and Communicative Disorders and Stroke, KO8 NS 01368

1990 Moore Award, American Association of Neuropathologists

1994 Merit Award, Department of Veterans Affairs, U.S. Government

2006 Moore Award, Honorable Mention, American Association of Neuropathologists

2009 Moore Award, Honorable Mention, American Association of Neuropathologists

2010 Blythe Memorial Lectureship, University of North Carolina Medical Center, Chapel Hill, North Carolina

2010 Massachusetts Neuropsychology Society Keynote Speaker

2010 MacFarlane Conference on Brain Injury Keynote Speaker, Little Rock, Arkansas

2011 Keynote speaker for Alzheimer's Day, Sponsored by the Department of Biochemistry, Boston University School of Medicine, Boston MA

2011 Bostonian of the Year, Boston Globe

2011 Harold Alfond Sports Medicine Lectureship

2011 Gabriele Zu Rhein Lectureship in Neuropathology, University of Wisconsin, Madison

2011 Sports Legacy Institute, Impact Award

2012 Patriot Award, Appleton East High School, given to an alumnus for contributions to the community

2012 Merit Award, Department of Veterans Affairs, U.S. Government

2013 John Groves Lectureship in Neuropathology, McMaster University, Hamilton, Ontario

2013 Zimmerman Lectureship in Neuropathology, Montefiore and Albert Einstein Medical Centers, New York, NY

2013 See the Line, Traumatic Brain Injury Symposium Keynote Speaker, London, Ontario, CA

2013 Davis Lecture at Samford University, Birmingham AL

2013 Adams Lecture, Massachusetts General Hospital, Boston MA

2014 Pamela Warden Lectureship 2104, Defense and Veterans Brain Injury Center, Bethesda, MD

2014 Keynote lecture, Women in Science (WIS) luncheon, Museum of Science, Boston, MA

2014 Ethos Award, Santa Clara University, Institute of Sports Law and Ethics

2014 Keynote Lecture, Ochsner Neuroscience Institute, New Orleans, LA

2014 Deans Distinguished Lecture, 2014, Case Western Reserve University, Cleveland OH

2014 Keynote Lecturer, Third Annual Joining Forces TBI/PTSD Boston University School of Medicine and VA Boston Conference, Boston MA

2015 Topical Lecture, 2015, AAAS annual meeting, San Jose CA

2015 Joseph Leiter Lectureship, National Library of Medicine/Medical Library Association, Austin TX

- 2015 Stanley Aronson Lectureship, Brown University School of Medicine, Providence RI
- 2015 See the Line, Keynote Lectureship, Western University, London, Ontario
- 2015 Pubic Advocacy Lecture, Society for Neuroscience, Chicago, IL
- 2015 1st Temple University Annual Brain Preparedness Research Day Keynote Speaker, Philadelphia, PA
- 2016 Spivack Distinguished Scholar in the Neurosciences, Boston University School of Medicine
- 2016 Keynote lectureship, Boston University Clinical and Translational Science Institute, 5th Annual Translational Research Symposium
- 2016 Vision Award, Associated Industries of Massachusetts (AIM), Westin Boston Waterfront hotel, Boston MA
- 2016 Neurology Faculty Research Award, Boston University School of Medicine
- 2016 Center for Neuroscience at the University of Pittsburgh Scientific Impact Award
- 2016 Keynote Speaker, Swedish Neuroscience Institute Annual Intensive Update in Neurology, Seattle, WA

LICENSES AND CERTIFICATION:

- 1986 Massachusetts Medical License
- 1986 American Board of Psychiatry and Neurology
- 1989 American Board of Pathology - Special Qualification in Neuropathology

TEACHING EXPERIENCE AND RESPONSIBILITIES:

- 1983 - 1984 Lab instructor in Neuropathology, Case Western Reserve School of Medicine
- 1984 - 1985 Tutorial course in Clinical Neurology, University of Massachusetts Medical School
- 1986-1994 Teaching of Neuropathology to Pathology, Neurology, Neurosurgery and Neuroradiology Residents, Massachusetts General Hospital
- 1986-1987 Clinical instructor in Harvard Medical School course 709.0, Nervous System Pathophysiology 1987-1992
Instructor in Information Processing and Behavior,
Oliver Wendell Holmes Society (New Pathway Program), Harvard Medical School
- 1994 - present Teaching of Neuropathology to: Medical Students, Pathology Residents, Neurology Residents, Microbiology Students, Dental Students, Graduate Students at the following facilities: Boston University School of Medicine, Mallory Institute of Pathology, Boston Medical Center, Bedford Veterans Administration Medical Center, West Roxbury Veterans Administration Medical Center

- 1999 - 2006 Lecturer in the Pathological Basis of Disease Course (Boston University Medical students Year 2) – 7 lectures per year
 Lecturer in Pathological Basis of Disease Course (Boston University Dental Students) -1 lecture per year
 Lecturer in Microbiology (Boston University Medical Students, Year 2) – 2 lectures/year
- 1994 -present Clinicopathological case presentations: Medical grand rounds – Boston University School of Medicine, Medical and Geriatric Research Educational Clinical Center Neurology Rounds – Bedford Veterans Administration Medical Center, Boston University Alzheimer’s Disease Center Weekly Conference, Brain cutting weekly sessions, Bedford and West Roxbury Veterans Administration Medical Centers

MAJOR ADMINISTRATIVE RESPONSIBILITIES:

- 1996- Director of the Brain Bank, Boston University Alzheimer's Disease Center
- 1996- Neuropathology Core Director, Boston University Alzheimer's Disease Center
- 1997- Director of Brain Bank, Framingham Heart Study
- 2008- Director of Neuropathology, New England VISN-1 Veteran Affairs Medical Centers
- 2008- Neuropathologist, National VA ALS Biorepository
- 2008- Co-Director, Center for the Study of Traumatic Encephalopathy, and Director of the VA-BU-SLI TBI Brain Bank Boston University School of Medicine
- 2013- Director of the VA-BU-SLI Brain Banks
- 2014- Director of CTE Center, Boston University Alzheimer’s Disease Center
- 2014- Associate Director, Boston University Alzheimer’s Disease Center
- 2015- Neuropathologist, Post Traumatic Stress Disorder Brain Bank, VA Boston

OTHER PROFESSIONAL ACTIVITIES:

PROFESSIONAL SOCIETIES: MEMBERSHIPS, OFFICES, AND COMMITTEE ASSIGNMENTS

- 1987- American Association of Neuropathologists
- 2008- Medical Advisory Board for Sports Legacy Institute (SLI)
- 2009- Mackey White TBI Committee for the NFLPA (National Football League Players' Association)

- 2011 Dana Alliance for Brain Initiatives, Dana Foundation
- 2012 Co-organizer with Sam Gandy and Steven T DeKosky: Keystone Symposium, Clinical and Molecular Biology of Traumatic Brain Injury and Post-Traumatic Stress Disorder, Keystone Colorado, February 26-March 2, 2012
- 2012 4th International Consensus Conference on Concussion in Sport, Zurich, Switzerland October 31 -November 2, 2012
- 2013 National Academies' (National Research Council's) Panel on Human Research and Engineering at the Army Research Laboratory
- 2013 New York Academy of Science
- 2014 Organizer with Lee Goldstein, Ramon Arrastia-Diaz, Keystone Symposium on Traumatic Brain Injury, Santa Fe, New Mexico, scheduled for January 2016
- 2015 Organizer, Consensus Conference to define the Neuropathological Criteria for CTE, Boston, MA February 2015, Sponsored by NINDS and NIBIB
- 2016 Organizer, 2nd Consensus Conference to define the Neuropathological Criteria for CTE, Boston, MA November 2016, Sponsored by NINDS and NIBIB

EDITORIAL BOARDS:

Ad hoc reviewer, *Journal of Neuropathology and Experimental Neurology*
 Ad hoc reviewer, *Neurology*
 Ad hoc reviewer, *Annals of Neurology*
 Ad hoc reviewer, *Neurobiology of Aging*
 Ad hoc reviewer, *Arch Neurology*
 Ad hoc reviewer, *Brain Research*
 Ad hoc reviewer, *Acta Neuropathologica*
 Ad hoc reviewer, *Amer J Pathology*

MAJOR COMMITTEE ASSIGNMENTS:

FEDERAL GOVERNMENT

Ad Hoc Reviewer, National Institute of Aging

Neuropathologist and Neurologist, Workshops for the Diagnosis of Progressive Supranuclear Palsy, NINDS, Neuroepidemiology Branch, 1993, 1994, 1996

Vascular Cognitive Impairment Harmonization Criteria Workshop I – Sponsored by the NINDS, Canadian Stroke Network, Canadian Institute of Health Research, Alzheimer's Association, and NIH Office of Rare Diseases, April 24–27, 2005.

Vascular Cognitive Impairment Harmonization Criteria Workshop II– Cell Biology of Vascular Cognitive Impairment Workshop - – Sponsored by the NINDS, Canadian Stroke Network, Canadian Institute of Health Research, Alzheimer’s Association, and NIH Office of Rare Diseases, 2007

Traumatic Brain Injury Workshop, Sponsored by NIA and NIH, Bethesda MD, September 18-20, 2009

Sensory and Motor Dysfunction in Aging and Alzheimer’s Disease Workshop, Sponsored by NIA and NIH, Bethesda MD, August 8 and 9, 2010

Neuropathology of Chronic Traumatic Encephalopathy Workshop, Sponsored by NIH and NINDS, December 5-6, 2012 Bethesda, Maryland

Organizer, First NINDS Consensus Conference to determine the Neuropathological Criteria for CTE, Boston, MA February 25-27, 2015, Sponsored by NINDS and NIBIB

Organizer, Second NINDS Consensus Conference to determine criteria for staging pathological severity in CTE, Boston, MA November 14, 2016, Sponsored by NINDS and NIBIB

SENATE and CONGRESSIONAL TESTIMONY or BRIEFINGS

October 28, 2009 **Congressional Hearing on the Legal Issues Relating to Football Head Injuries.**<http://www.cspan.org/Watch/Media/2009/10/28/HP/A/24819/House+Judiciary+Cmte+Hearing+on+NFL+Head+Injuries.asp>

October 6, 2011 **Congressional Briefing on TBI.** Hosted by the Dana Foundation and the AAAS, Rayburn Office building

October 19, 2011 **Hearing before the Senate Committee on Commerce, Science & Transportation: Detection and Treatment of Concussions in Student Athletes** [http:// www.c-spanvideo.org/program/302174-1](http://www.c-spanvideo.org/program/302174-1)

July 20, 2012 **Congressional Briefing: Emerging Research in Head Injuries: What’s Happening to our War and Sports Heroes?** Hosted by: The Congressional Men’s Health Caucus and the Men’s Health Network

March 14, 2016 **Congressional Roundtable Forum- Broad Review on Concussion,** sponsored by the House Energy and Commerce Committee, Washington DC

CURRENT SUPPORT:

1. Title: Chronic Effects Neurotrauma Consortium (CENC)

Role in Project: Ann McKee, Co-Director, Neuropathology Core

Type of Grant: Cooperative agreement

Funding Agency: VA, DOD

Years Funded: 1/01/2014-12/30/2019
Total Direct Costs: \$500,000/ yr

2. Title: CTE and Posttraumatic Neurodegeneration: Neuropathology and Ex Vivo Imaging

Role in Project: Ann McKee, PI

Type of Grant: UO1, NIH Cooperative agreement, 1U01NS086659-01

Funding Agencies: National Institute of Neurological Disorders and Stroke (NINDS) National Institute of Biomedical Imaging and Bioengineering (NIBIB)

Years Funded: 12/01/2013-11/30/2017

Total Direct Costs: \$ 6,000,000

(Response to NIH RFA: Collaborative Research on Chronic Traumatic Encephalopathy and Delayed Effects of Traumatic Brain Injury: Neuropathology and Neuroimaging Correlation (U01), Cooperative agreement)

3. Title: National VA PTSD Brain Bank

Role in Project: Ann McKee, Co-investigator

Type of Grant: Congressional mandate

Funding Agency: Veterans Administration, U.S. Government

Total Direct Costs: \$500,000/ yr

4. Title: Neuropathology Core, Boston University Alzheimer's Disease Core Center

Role in Project: Director of Neuropathology Core; Co-Investigator

Type of Grant: P30 Center Grant (N. Kowall, PI) P30-AG13846

Funding Agency: National Institute on Aging

Years Funded: 7/1/1996-6/30/2011

Total Direct Costs: \$965,065

The major goal of this project is to build a broad-based research program in Alzheimer's disease to better understand the phenomenology and pathophysiology of Alzheimer's disease and related dementias, and to facilitate treatment and prevention.

5. Title: National VA Biorepository

Role in Project: Co-investigator, Boston, MA

Type of Grant: VA National Center Grant (N. Kowall, PI)

Funding Agency: Department of Veterans Affairs

Years Funded: 8/01/2009- 7/30/2013

Total Direct Costs: \$1,226,000

The major goal of this project is to build a national brain bank to better understand the phenomenology and pathophysiology of ALS.

6. Title: Axonal Injury and Tau Pathology following Blast mTBI in OEF/OIF Veterans

Role in Project: Ann McKee, PI

Type of Grant: VA Merit Award

Funding Agency: Veterans Administration, U.S. Government

Years Funded: 7/01/2013-6/30/2018

Total Direct Costs: \$1,092,348

Program: Tau protein and biomarkers in blast TBI

7. Title: Molecular & Genetic Investigation of Tau in Chronic Traumatic Encephalopathy

Role in Project: Ann McKee, Co-investigator, Boston, MA

Type of Grant: ERMS#

Funding Agency: Department of Defense

Years Funded: 9/1/14-8/31/17

Total Direct Costs: \$119,335

The objective of this grant is to validate the association of CTE with MAPT and characterize differences the expression of tau protein, tau-associated proteins, tau mRNA and tau-silencing microRNAs in CTE patients.

PHILANTHROPIC SUPPORT

Andlinger Foundation 2012

WWE 2013-2015: McKee, Nowinski and Goldstein

PAST SUPPORT

1. Title: Unrestricted gift- Center for the Study of Traumatic Encephalopathy

Role in Project: Co-Investigator

Type of Grant: Private Agency

Funding Agency: National Football League

Years Funded: 5/01/2010 – 8/31/11

Total Gift: \$1,000,000

2. Title: MRI, Genetic and Cognitive Precursors of AD and Dementia

Role in Project: Co-Investigator

Type of Grant: RO1 (Phillip Wolf, PI) 2 R01 AG1649

Funding Agency: National Institute on Aging

Years Funded: 6/30/10-05/31/15

Total Direct Costs: \$825,557

The goals of the study are to relate risk factors for Alzheimer's Disease (AD) and dementia in the Framingham Offspring and Omni cohorts to changes in brain morphology measured by Magnetic Resonance Imaging (MR) and cognitive performance.

3. Title: Neuropathological and Clinical Consequences of Repetitive Concussion in Athletes

Role in Project: Co-PI (Robert Stern, Co-PI)

Type of Grant: Private Foundation

Funding Agency: National Operating Committee on Standards for Athletic Equipment (NOCSAE)

Years funded: 2/1/2009-5/1/2011

Total Direct Costs: \$249,997

To establish a living brain donation registry, conduct neuropathological examinations, and collect pilot clinical research data, investigating the long-term consequences of repetitive head trauma in athletes.

4. Title: Neuropathologic Examination of Traumatic Encephalopathy in Athletes with Histories of Repetitive Concussion

Role in Project: Co-PI (Robert Stern Co-PI)

Type of Grant: Supplement to Boston University Alzheimer's Disease Center

Funding Agency: NIA

Years Funded: 7/1/2008-6/30/2009

Total Direct Costs: \$100,000

To establish a brain bank, brain donation program, and clinical research program, investigating the long-term consequences of repetitive concussions.

5. Title: Development of Minimal Diagnostic Criteria for Chronic Traumatic Encephalopathy

Role in Project: Co-PI (Robert Stern Co-PI)

Type of Grant: Supplement to Boston University Alzheimer's Disease Center

Funding Agency: NIA

Years Funded: 7/1/2009-6/30/2010

Total Direct Costs: \$100,000

To develop minimal diagnostic neuropathological criteria for Chronic Traumatic Encephalopathy

6. Title: Establishment of the Center for the Study of Traumatic Encephalopathy

Role in Project: Co-PI (Robert Stern Co-PI)

Type of Grant: BU Internal Funding

Funding Agency:

Years Funded: 7/1/2008-6/30/2009

Total Direct Costs: \$55,000

A formal collaboration with the non-profit Sports Legacy Institute (SLI) establishing the Center for the Study of Traumatic Encephalopathy (CSTE). The Center, jointly located at Boston University School of Medicine (BUSM) and the Edith Nourse Rogers Memorial Veterans Hospital, for studying Chronic Traumatic Encephalopathy (CTE).

7. Title: Role of Somatic mtDNA Mutations in Late-Onset Neurodegeneration

Role in Project: Co-Investigator

Type of Grant: RO1, Konstantin Khrapko, PI R01 ES11343

Funding Agency: NINDS

Years Funded: 6/1/01 - 5/31/06

8. Title: Tau Hyperphosphorylation in Alzheimer's Disease

Role in Project: Ann McKee, PI

Type of Grant: Merit Award

Funding Agency: Veterans Administration, U.S. Government

Years Funded: 2/1/94 - 1/31/99

Total Direct Costs: \$650,000

9. Title: Microtubule Reorganization in Alzheimer's Disease

Role in Project: Ann McKee, PI, KO8 NS 01368

Type of Grant: Career Investigator Development Award

Funding Agency: National Institute of Neurological and Communicative Disorders and Stroke

Years Funded: 7/01/89- 6/30/94

Total Direct Costs: \$500,000

INVITED LECTURES AND PRESENTATIONS

- 1996 - present *Cognitive and Behavioral Neurology: Focus on Dementia, Harvard Medical School CME course, "Neuropathology of Dementia," Annual Course, Boston MA.*
- April 24, 2009 *Chronic Traumatic Encephalopathy, Concussion and Athlete Conference, Franklin Pierce University, Rindge, NH*
- May 1, 2009 *Chronic Traumatic Encephalopathy, Sixth Annual Sports-Related Conference on Concussion and Spine Injury, Harvard Medical School CME course, Fenway Park, Boston MA*
- May 19th, 2009 *Chronic Traumatic Encephalopathy in Athletes, National Football League, Mild Traumatic Brain Injury Committee, New York, NY*
- May, 2009 *Cognitive and Behavioral Neurology: Focus on Dementia, Harvard Medical School CME course, "Neuropathology of Dementia," Annual Course, Boston MA.*
- September 18, 2009 *Chronic Traumatic Encephalopathy: Progressive tauopathy following repetitive head injury. Traumatic Brain Injury Workshop, Sponsored by NIA and NIH, Bethesda MD*
- September 24, 2009 *Recent findings in professional and non-professional football players, Harvard Faculty Club Breakfast Meeting, Harvard Club, Boston MA*
- September 29, 2009 *Chronic Traumatic Encephalopathy in Athletes, Physicians of the Middlesex Central District of the Massachusetts Medical Society, Emerson Hospital, Concord MA*
- October 2, 2009 *Chronic Traumatic Encephalopathy in Athletes, Boston University School of Medicine CME course, Concussion and the Athlete conference, Gillette Stadium, Foxborough, MA*
- October 16, 2009 *Traumatic Encephalopathy, American Association of Professional Ringside Physicians, Mohegan Sun, Uncasville, CT*
- October 28, 2009 *Congressional Hearing on the Legal Issues Relating to Football Head Injuries.<http://www.cspan.org/Watch/Media/2009/10/28/HP/A/24819/House+Judiciary+Cmte+Hearing+on+NFL+Head+Injuries.asp>*
- November 10, 2009 *Chronic Traumatic Encephalopathy Update, National Football League, Mild Traumatic Brain Injury Committee, New York, NY*
- January 10, 2010 *Chronic Traumatic Encephalopathy, Eastern Athletic Trainer's*

Association, Copley Marriot, Boston MA

- January 26, 2010 *Center for the Study of Chronic Traumatic Encephalopathy*, National Football League Players' Association TBI committee, The Breakers, Palm Beach, FL
- February 25, 2010 *Chronic Traumatic Encephalopathy, an update*. Roxbury Society for Medical Improvement, The Country Club, Brookline, MA.
- March 6-10, 2010 *Chronic Traumatic Encephalopathy in Athletes: the role of axonal pathology*, 2010 Marian Kies colloquium, Indicators of axonal pathology in the CNS, American Society of Neurochemistry, Santa Fe, NM
- March 30, 2010 *Chronic Traumatic Encephalopathy. Keynote Speaker*, Blythe Memorial Lecture, University of North Carolina Medical Center, Chapel Hill, North Carolina
- April 12, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes*. University of Massachusetts, Lowell Campus, Research Seminar, Lowell, MA
- April 15 2010 *What is so Special about our Brain?* Community Action Council, Community Center, Roxbury MA
- April 22, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes*. Keynote speaker in Traumatic Brain Injury: Implications for Sport and Health University of Baltimore School of Law and its Center for Sport and the Law, Baltimore MD
- April 27, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes and soldiers*. VA Research Day, West Roxbury VAMC, West Roxbury, MA
- May 14, 2010 *Chronic Traumatic Encephalopathy*, Seventh Annual Sports-Related Conference on Concussion and Spine Injury, *Harvard Medical School CME course*, Fenway Park, Boston MA
- May, 2010 *Cognitive and Behavioral Neurology: Focus on Dementia*, Harvard Medical School CME course, "Neuropathology of Dementia," Annual Course, Boston MA.
- June 2, 2010 *Chronic Traumatic Encephalopathy: a distinct pathological entity associated with head injuries*. NFL- Johns Hopkins Conference on Head Injuries in Football, Baltimore MD

- June 8, 2010 *Chronic Traumatic Encephalopathy: a distinct pathological entity associated with head injuries.* Massachusetts Neuropsychology Society, Keynote Speaker, Brookline MA
- July 21, 2010 *Chronic Traumatic Encephalopathy.* Keynote Speaker MacFarlane Conference on Brain Injury, Little Rock, Arkansas
- August 1, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes* New Jersey Athletic Trainers Association, Princeton, NJ
- August 8, 2010 *The Neuropathology of Preclinical Alzheimer's Disease: The Role of the Visual Association Cortex and the Lens.* Sensory and Motor Dysfunction in Aging and Alzheimer's Disease Workshop, Sponsored by NIA and NIH, Bethesda MD
- August 26, 2010 *The Long Term Sequelae of Traumatic Brain Injury - What we've learned from athletes: Chronic Traumatic Encephalopathy.* Private presentation to Secretary Shinseki, Bedford VAMC, Bedford MA
- August 30, 2010 *The Long-term Sequelae of Mild Traumatic Brain Injury.* DBVIC. Military TBI Training Conference, Washington DC
- August 31, 2010 *The Long Term Sequelae of Traumatic Brain Injury - What we've learned from athletes: Chronic Traumatic Encephalopathy.* Private presentation to General Chiarelli, Vice Chief of Staff U.S Army, Pentagon, Washington, D.C.
- September 10, 2010 *Major Consequences of Invisible Brain Injury* University of California, San Francisco Neurology Grand Rounds, San Francisco, CA
- September 21, 2010 *The Invisible Injury: Mild TBI, Major Consequences.* Annual Keynote Keynote speaker for Alzheimer's Day, Sponsored by the Department of Biochemistry Boston University School of Medicine, Boston MA
- October 1, 2010 *Long-Term Effects of Repetitive Concussive and Subconcussive Brain Trauma: Chronic Traumatic Encephalopathy (CTE)* Head Trauma and the Athlete Conference, Waltham, MA
- October 1, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Wisconsin Psychiatric Association Meeting, Green Bay WI
- October 19, 2010 *The Science of Repetitive Head Trauma (Sub-Concussive Events): Chronic Traumatic Encephalopathy (CTE)* Ice Hockey Concussion Summit. Mayo Clinic Rochester, MN
- October 29, 2010 *The Long Term Sequelae of Traumatic Brain Injury - What we've learned from athletes: Chronic Traumatic Encephalopathy.* Private presentation to Rear Admiral Christine Hunter Deputy Director TRICARE Management Activity, Boston University School of Medicine, Boston MA

- November 3, 2010 *Decoding the True Impact of Repetitive Brain Trauma/ Chronic Traumatic Encephalopathy/ Encephalomyelopathy* Boston University Alumni Association Breakfast Meeting with President Robert Brown, Standard Club, Chicago IL
- November 15, 2010 *The Neuropathological Substrate of MCI.* Boston University Alzheimer's Disease Symposium on Mild Cognitive Impairment, Hebert Lounge, BUSM, Boston, MA
- November 16, 2010 *Our Brain in Aging and Disease,* Community Action Council, 12th Baptist Church, Roxbury MA
- December 3, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Marshfield Clinic Grand Rounds, Marshfield, WI
- December 16, 2010 *Mild TBI, Major Consequences: Chronic Traumatic Encephalopathy/ Encephalomyelopathy.* Walter Reed Army Hospital. Bethesda MD
- December 30, 2010 *Chronic Traumatic Encephalopathy: What we have learned from athletes.* Boston Museum of Science featured talk. Boston, MA
- February 3, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* International Neuropsychological Society Meeting, Boston, MA
- February 4, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Sports-Related Brain Injury Panel Lecture, Nebraska Wesleyan University, Lincoln, NE
- February 5, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Mild Traumatic Brain Injury: Challenges and Controversies in Research Conference, Toronto Rehabilitation Center, Toronto ON
- February 15, 2011 *Major Consequences of Invisible Brain Injury: Chronic traumatic encephalopathy and encephalomyelopathy.* University of Massachusetts Grand Rounds, Worcester, MA
- March 3, 2011 *Chronic Traumatic Encephalopathy: What we have learned* Harold Alfond Sports Medicine Lecture, University of New England Biddeford Maine
- March 16, 2011 *Chronic Traumatic Encephalopathy* The Regeneration of Brain Synapses: Science, Implications and Opportunities Conference, Bethesda, MD
- March 30, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* University of New Mexico Grand Rounds, Albuquerque, NM
- April 15, 2011 *The Pathology of Chronic Traumatic Encephalopathy* Cumulative Sports Concussion and Risk of Dementia American Academy of Neurology Annual Meeting, Honolulu, HI

- April 17, 2011 I. *Acute Concussive and Subconcussive injury* II. *Chronic Traumatic Encephalopathy: What we have learned from athletes* Traumatic Brain Disorders - Neurobehavioral Assessment and Management Conference, Columbus, OH
- April 29, 2011 University of Edinboro Concussion Conference, Edinboro, PA
- May 11, 2011 *Chronic Traumatic Encephalopathy: Your brain on football.* Keynote speaker, Christ Medical Center Neurosciences Institute, Oak Lawn, IL
- May, 2011 *Cognitive and Behavioral Neurology: Focus on Dementia, Harvard Medical School CME course, "CTE,"* Annual Course, Boston MA.
- June 19, 2011 *Chronic Traumatic Encephalopathy* National Athletic trainers Association Annual Meeting, New Orleans, LA
- June 23, 2011 Suna Kıraç Conference on Neurodegeneration, ALS-IST 2011: *Recent Themes in Motor Neuron Biology and Neurodegeneration*, Istanbul, Turkey
- July 12, 2011 *Chronic Traumatic Encephalopathy* International Symposium on Brain Injury in Children Conference, Hospital for Sick Children, Toronto, ON
- August 16, 2011 *Traumatic Brain Injury* Neurobiology of Brain Dysfunction, Marine Biological Laboratory, Woods Hole, MA
- August 22, 2011 *The Long-term Sequelae of Mild Traumatic Brain Injury.* DVBIC. Military TBI Training Conference, Washington DC
- September 8, 2011 NIH ALS Conference: Clinical Research to Find the Pathogenesis and Cause of ALS, Tarrytown New York
- September 21, 2011 *Chronic Traumatic Encephalopathy* Institute for Memory Impairments and Neurological Disorders Frontiers of the MIND Keynote Speaker, University of California Irvine, CA
- September 24, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Neurotrauma Research Day, University of British Columbia
- October 6, 2011 Capitol Hill briefing on TBI, sponsored by the Dana Foundation and the AAAS, Rayburn Office building
- October 7, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Stroke Rehab Center Conference, Inova Mount Vernon Hospital, Alexandria, VA
- October 21, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Neurology Grand Rounds, Temple University, Philadelphia, PA

- October 21, 2011 *Recurrent Athletic mTBI, Cerebral Tauopathy, and Chronic Traumatic Encephalopathy* Seventh Annual Lachman Series, Pennsylvania Orthopedic Society, Philadelphia, PA
- October 28, 2011 *Long-Term Effects of Repetitive Concussive and Subconcussive Brain Trauma: Chronic Traumatic Encephalopathy (CTE)* Head Trauma and the Athlete Conference, Framingham, MA
- October 29, 2011 *Mild Traumatic Brain Injury and Chronic Traumatic Encephalopathy: What we have learned from athletes* Annual Education Conference, Brain Injury Association of Illinois, Oakbrook, IL
- November 2, 2011 Sports Injury and Alzheimer's disease: Is there a Connection? Rhode Island Alzheimer's Association Lecture, Providence, RI
- November 3, 2011 Gabriele Zu Rhein Lectureship in Neuropathology, University of Wisconsin at Madison
- November 16, 2011 *Chronic Traumatic Encephalopathy* President's Lecture Series on Health, Regis College, Wellesley, MA
- November 20, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* University of Toronto Department of Laboratory Medicine and Pathobiology Neuropathology Day, Toronto, ON
- December 1, 2011 *The Long-term Consequences of Repetitive Concussion*, Boston University Academy, Boston MA
- January 7, 2012 *Chronic Traumatic Encephalopathy* Eastern Athletic trainers Association Annual Meeting, New Orleans, LA
- February 16, 2012 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Neurology Grand Rounds, University of Pennsylvania, Philadelphia, PA
- February 22, 2012 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Neuroscience and Behavior Program, University of Massachusetts, Amherst, MA
- February 27, 2012 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Keystone Symposium, Clinical and Molecular Biology of Traumatic Brain Injury and Post-Traumatic Stress Disorder, Keystone, CO
- March 5, 2012 *The Long-term Consequences of Repetitive Concussion*, Appleton High School East, Appleton, Wisconsin
- April 2, 2012 *Chronic Traumatic Encephalopathy*, Wisconsin coroners and medical examiners, Appleton Wisconsin

- April 17, 2012 *Chronic Traumatic Encephalopathy: What we have learned from athletes and Veterans*, Columbia-Presbyterian Neurology Grand Rounds, New York, New York
- May 18, 2012 *Chronic Traumatic Encephalopathy* Sports-related injury on Concussion and Spine Injury conference, Children's and Brigham and Women's Hospitals, Boston, MA
- May 25, 2012 *Chronic Traumatic Encephalopathy*, Loyola School of Medicine, Chicago Illinois
- May, 2012 *Cognitive and Behavioral Neurology: Focus on Dementia*, Harvard Medical School CME course, "CTE," Annual Course, Boston MA.
- June 21, 2012 *Chronic Traumatic Encephalopathy: What we have learned from athletes and Veterans* Plenary speaker, American Association of Neuropathologists annual meeting 2012, Chicago IL
- July 25, 2012 *Chronic Traumatic Encephalopathy* Plenary speaker, Neurotrauma Society annual meeting 2012, Phoenix, AZ
- August 5, 2012 *Chronic Traumatic Encephalopathy 2012*, American Psychological Association, Orlando FL
- August 15, 2012 *Chronic Traumatic Encephalopathy in the Military* Plenary speaker, Military Health System Research Symposium annual meeting 2012, Fort Lauderdale, FL
- August 16, 2012 *Chronic Traumatic Encephalopathy: What we have learned from athletes and Veterans* Breakout session speaker, Military Health System Research Symposium annual meeting 2012, Fort Lauderdale, FL
- September 28, 2012 *Chronic Traumatic Encephalopathy 2012* Mayo Clinic Symposium on Concussion in Sport, Scottsdale, AZ
- October 1, 2012 *Neuropathological Spectrum of Chronic Traumatic Encephalopathy* Lou Ruvo Symposium on Chronic Traumatic Encephalopathy, Cleveland Clinic, Las Vegas NV
- October 5, 2012 *Chronic Traumatic Encephalopathy 2012* American Neurological Association annual meeting, Lunch Discussion, Boston MA
- October 6, 2012 *Chronic Traumatic Encephalopathy 2012* American Neurological Association annual meeting, Breakout Session on Behavioral Neurology, Boston MA
- October 23, 2012 *Chronic Traumatic Encephalopathy 2012* AAAS-DANA Foundation Event on "The Science and Impact of TBI", Washington, DC
- October 25, 2012 *Chronic Traumatic Encephalopathy 2012* Hit Count Conference, Waltham MA

- October 26, 2012 *Chronic Traumatic Encephalopathy 2012* Boston University Concussion in Sport Conference, Waltham MA
- November 2, 2012 *What is the pathological evidence for concussion related changes in the brains of retired athletes?* 4th International Consensus Conference on Concussion in Sport, Zurich, Switzerland November 2, 2012
- November 23, 2012 *Chronic Traumatic Encephalopathy 2012* Seminar on Boxing and the Brain, The Royal College of Surgeons, Stephens Green, Dublin Ireland
- December 5, 2012 *Chronic Traumatic Encephalopathy-Insights from the brains of athletes* NIH Workshop on the Neuropathology of CTE, Bethesda MD
- December 10, 2012 *Chronic Traumatic Encephalopathy 2012* Neurology Grand Rounds, Washington University St. Louis, MO
- February 13, 2013 *Concussions to Chronic Traumatic Encephalopathy: what is the evidence?* Merrimack College, North Andover MA
- March 13, 2013 *Emerging Concepts in Chronic Traumatic Encephalopathy* Neurosurgery Grand Rounds, Massachusetts General Hospital, Boston MA
- April 11, 2013 *Brain Damage and Recovery* Judicial Seminar on Emerging Issues in Neuroscience, Sponsored by the American Association for the Advancement of Science, the Federal Judicial Center, the National Center for State Courts, the American Bar Association Judicial Division, and the Dana Foundation, and hosted by the Yerkes National Primate Research Center of Emory University, Atlanta, Georgia
- April 19, 2013 *Chronic post-traumatic encephalopathy in professional sport*, John Groves Lectureship in Neuropathology, 6th Annual Neuropathology Day at McMaster, Hamilton, Ontario, Canada
- May 5, 2013 *Ocular Manifestations of Chronic Traumatic Encephalopathy*, Association for Research in Vision and Ophthalmology annual meeting, Seattle, WA
- May 9, 2013 *Chronic Traumatic Encephalopathy 2013*, Harry Zimmerman Lectureship in Neuropathology, Montefiore Albert Einstein Medical Centers, New York, New York
- May 17, 2013 *Chronic Traumatic Encephalopathy*, Advanced Neuro Intensive Care, Harvard Medical School CME course, Boston MA
- May 18, 2013 *Update on Chronic Traumatic Encephalopathy*, Sports-related injury on Concussion and Spine Injury conference, Children's and Brigham and Women's Hospitals, Boston, MA

- May 18, 2013 *Emerging Concepts in Research on Chronic Traumatic Encephalopathy* VA Research Day, Boston, MA
- May 23, 2013 *Chronic Traumatic Encephalopathy in Athletes and Veterans*, American Association of Clinical Scientists, Boston, MA
- May 29, 2013 *Interneuronal spreading of tau pathology in chronic traumatic encephalopathy*, PRION 2013: Conquering Frontiers, Banff, Alberta, Canada
- July 9, 2013 *Emerging Concepts in Chronic Traumatic Encephalopathy*, 3rd Biennial Conference – Brain Injury in Children, Toronto, Canada
- August 14, 2013 *Chronic Traumatic Encephalopathy*, Keynote Speaker, See the Line-Traumatic Brain Injury Symposium, Western School of Medicine, London, Ontario
- September 20, 2013 *Current Challenges in Chronic Traumatic Encephalopathy and Mild Traumatic Brain Injury. Accelerating Translational Neurotechnology: Fourth Annual Aspen Brain Forum* Aspen, CO
- October 8, 2013 *Prospective Study of CTE using Neuro Imaging with Post Mortem as a Final Validation/Challenges*. Ice Hockey Summit II. Mayo Clinic, Rochester, Minnesota
- October 11, 2013 *Emerging Concepts in Chronic Traumatic Encephalopathy*, Davis Lecture at Samford University, Birmingham AL
- November 18, 2013 *Emerging Concepts in Chronic Traumatic Encephalopathy*, Vanderbilt University, Nashville Tennessee
- November 20, 2013 *Emerging Concepts in Chronic Traumatic Encephalopathy*, Brigham and Women's Neurology Grand Rounds, Boston MA
- November 21, 2013 *Emerging Concepts in Chronic Traumatic Encephalopathy*, Adams Lecture, Massachusetts General Hospital, Boston, MA
- December 3, 2013 *Emerging Concepts in Chronic Traumatic Encephalopathy*, University of Tennessee Health Sciences Center, Memphis, Tennessee
- December 13, 2013 *Emerging Concepts in Chronic Traumatic Encephalopathy*, Mayo Clinic Jacksonville, Jacksonville, Florida
- March 12, 2014 *Update on CTE*, Alzheimer's Disease Center Lecture, Boston University, Boston MA
- April 3, 2014 *Consequences of mTBI in athletes and military veterans*, Pamela Warden

- Lectureship 2104, Defense and Veterans Brain Injury Center, Bethesda, MD
- April 4, 2014 *Update on CTE in athletes*, Wisconsin Athletic Trainers' Association Annual Meeting and Symposium, Eau Claire WI
- April 30, 2014 *Update on CTE research*, SLI Family Huddle & McHale Memorial, Washington DC
- May 3, 2014 Pathology of CTE, American Association of Neurologists Annual Meeting, Philadelphia PA
- May 15, 2014 What is CTE? University of Wisconsin- Founders Day, Boston MA
- May 20, 2014 Current concepts in CTE, Ochsner Neuroscience Institute, New Orleans, LA
- May 23, 2014 *Update on Chronic Traumatic Encephalopathy*, Sports-related injury on Concussion and Spine Injury conference, Children's and Brigham and Women's Hospitals, Boston, MA
- May, 2014 *Cognitive and Behavioral Neurology: Focus on Dementia*, Harvard Medical School CME course, "CTE," Annual Course, Boston MA.
- April 7, 2014 *What is CTE?* Keynote lecturer for annual Women in Science (WIS) luncheon, Museum of Science, Boston, MA
- June 9, 2014 *Ophthalmological Manifestations of CTE*, American Association of Neuropathologists, Portland, OR
- September 15, 2014 *CTE: current concepts*, TBI Society of Brazil, Sao Paulo, Brazil
- September 17, 2014 *CTE and the military*, XVIII International Congress of Neuropathology, Rio de Janeiro, Brazil
- September 18, 2014 *CTE and athletes*, Neurological Grand Rounds, Good Samaritan Hospital, Sao Paulo, Brazil
- September 19, 2014 *CTE –emerging concepts*, Neurological Grand Rounds, University of Sao Paulo Medical School, Sao Paulo, Brazil
- October 16, 2014 *Emerging Concepts in CTE*, Deans Distinguished Lecture, Case Western Reserve University, Cleveland, OH
- November 4, 2014 *Update on Chronic Traumatic Encephalopathy* , Keynote Lecturer, Third Annual Jointing Forces TBI/PTSD Boston University School of Medicine

and VA Boston Conference, Boston University

- November 7, 2014 *Update on Chronic Traumatic Encephalopathy*, Elon University, North Carolina
- November 11, 2014 *CTE in athletes*, XXIV Congresso Brasileiro de Neurologica, Curitiba, Brazil
- November 14, 2014 *Update on Chronic Traumatic Encephalopathy* University of New England, Providence Rhode Island
- November 20, 2014 *CTE: Emerging Concepts* Texas Neurological Society, Houston, Texas
- November 21, 2014 *Football and CTE* 4th Annual Huffines Discussion. Texas A&M, Houston Texas
- December 9, 2014 *CTE in football players: What we've learned over the past 7 years.* Neurology Grand Rounds, Boston University School of Medicine, Boston MA
- December 12, 2014 *Update on Chronic Traumatic Encephalopathy*, University of Vermont, Neurology grand rounds
- January 16, 2015 *Emerging Concepts in Chronic Traumatic Encephalopathy*, Human Amyloid Imaging, Miami FL
- January 17, 2015 *Chronic Traumatic Encephalopathy- the last 7 years*, Mild Cognitive Impairment, Miami FL
- January 29, 2015 *Chronic Traumatic Encephalopathy*, M& R Update Conference, Park City UT
- February 14, 2015 CTE 2015, AAAS Annual meeting, San Jose CA
- March 31, 2015 *Update on CTE*, FNIH - Sports and Health Research Program Stakeholder Board Meeting, Bethesda, MD
- April 18, 2015 *CTE- the last 7 years*, American Medical Society for Sports Medicine (AMSSM) - Hollywood, FL
- April 20, 2015 *Update on CTE*, AAN Annual meeting, Washington DC
- May 1, 2015 *Retinal Pathology in CTE*, ARVO, Denver CO
- May 16, 2015 *Update on Chronic Traumatic Encephalopathy*, Sports-related injury on Concussion and Spine Injury conference, Children's and Brigham and

Women's Hospitals, Boston, MA

- May 20, 2015 *Boxing, football and the brain*, Joseph Leiter Lectureship, Medical Library Association/ National Library of Medicine, Austin TX
- May 29, 2015 *Cognitive and Behavioral Neurology: Focus on Dementia*, Harvard Medical School CME course, “ The Neuropathology and Neurophysiology of CTE,” Annual Course, Boston MA.
- June 3, 2015 *Boxing, football and the brain*, Stanley Aronson Lecture, Brown University School of Medicine, Providence RI
- June 5, 2015 *CTE: The Last Seven Years*. ISMRM 2015 Annual Meeting Plenary Presentation, Toronto Canada
- June 24, 2015 *Boxing, Football and the Brain*. Concussion: a National Challenge, hosted by the National Academy of Engineering and the Institute of Medicine, Cleveland, Ohio
- July 2, 2015 Pathological Considerations in CTE Neuroimaging, National Neurotrauma Society, Sante Fe, NM
- August 12, 2015 Football, Hockey and the Brain. Keynote Speaker, See the Line-Traumatic Brain Injury Symposium III, Western School of Medicine, London, Ontario
- August 25-26, 2015 *Mild TBI, Major Consequences: What do we know?* TBI: State of the Art Conference, sponsored by the VA, NIH, DOD. Washington, DC
- September 17, 2015 *Boxing, football and the Brain* Dialogue on Discovery 2015, Case Western Reserve University School of Medicine, Cleveland OH
- September 25, 2015 *Update on the Pathology of CTE*. Alzheimer’s Disease Centers Neuropathology Core meeting, Chicago, IL
- October 20, 2015 *Football and the Brain*, Public Advocacy Forum on Sports, sponsored by the Society for Neuroscience, Chicago, IL
- October 22, 2015 *Boxing, Football and the Brain* Neurology Grand Rounds, Albert Einstein School of Medicine, New York, NY
- October 29, 2015 *The Spectrum of Disease in CTE*. Symposium on Brain Injury Research, Virginia Tech, Blacksburg, VA
- October 30, 2015 *Boxing, Football and the Brain* Neurology Grand Rounds, University of Wisconsin School of Medicine, Madison WI
- October 30, 2015 *Potential long-term Consequences of Concussive and Subconcussive Injury* Sports Medicine Conference, University of Wisconsin School of Medicine, Madison WI

- November 20, 2015 *Football and the Brain*, Keynote Speaker 1st Temple University Annual Brain Preparedness Research Day, Temple University, Philadelphia, PA
- January 25, 2016 *CTE 2016: What We Know Now* 2016 Keystone Symposium on the Clinical, Pathological and Translational Mechanisms of Traumatic Brain Injury, Sante Fe, New Mexico
- February 11, 2016 *Football and the Brain*, Mount Sinai School of Medicine Neuroscience Grand Rounds, New York City, NY
- February 25, 2016 *Football and the Brain*, BU Federal Relations Panel with Jonathan Woodson, Assistant Secretary of Defense for Health Affairs, Reserve Officers Association, Washington DC
- March 9, 2016 *Football and the Brain*, Keynote Speaker, Indiana University and Purdue University, Indianapolis, IN
- March 10 2016 *CTE 2016: What We Know Now* Indiana University School of Medicine, Indianapolis, IN
- March 14, 2016 Congressional Roundtable Forum Broad Review on Concussion, sponsored by the House Energy and Commerce Committee, Washington DC
- March 28, 2016 *CTE 2016: What We Know Now*, Boston University Clinical and Translational Science Institute, 5th Annual Translational Research Symposium
- April 8, 2016 *CTE: A Trauma-induced Neurodegeneration*, Spring Brain Conference, Sedona, AR
- April 17, 2016 *CTE 2016: What We Know Now*, American Association of Neurology Dementia Update, Vancouver BC, Canada
- April 20, 2016 *CTE: A possible long-term consequence of repetitive neurotrauma*, American Association of Neurology Concussion Symposium, Vancouver BC, Canada
- April 29, 2016 *CTE 2016: What We Know Now* ARVO, Seattle WA
- June 10, 2016 *The Neuropathology and Neurophysiology of CTE*, Cognitive and Behavioral Neurology: Focus on Dementia, Harvard Medical School CME course, Annual Course, Boston MA
- June 16, 2016 *CTE 2016: What We Know Now, What We Need to Know* American Association of Neuropathologists, Baltimore MD

September 9, 2016 *CTE: What We Know Now*
Center for Neuroscience at the University of Pittsburg Scientific Impact
Award, Pittsburgh, PA

September 15, 2016 Keynote Speaker, Swedish Neuroscience Institute Annual Intensive
Update in Neurology, Seattle, WA

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