

**CURRICULUM VITAE**  
**Ann C. McKee, M.D.**  
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**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  
2018 - Affiliate Faculty, Department of Biomedical Engineering, Boston University School of Medicine  
2018 - William Fairfield Warren Distinguished Professor of Neurology and Pathology, Boston University School of Medicine  
2022- Director, Boston University School of Medicine, ADRC

**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 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 runner-up, 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, 5<sup>th</sup> 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

2017 Tom Parker Memorial Lectureship, The University of Oklahoma Health Sciences Center, Oklahoma City, OK

2017 Keynote speaker, Chicago Society for Neuroscience, Chicago IL

2017 Peter W. Lampert Memorial Lectureship, University of California, San Diego

2017 Women's Fund Keynote Lecturer, Women's Fund, Appleton WI

2017 Hunter Lectureship, Southwestern Oklahoma University, Wethersford, Oklahoma

2017 Keynote Lectureship, Advances in Neuroscience, St. Lukes, Kansas City, MO

2017 Keynote Lectureship, Power Precision Health, Cambridge MA

2017 The Bostonian of the Year, 2017, Boston Globe

2018 Time 100 Most Influential People in the World, 2018, Time Magazine

2018 Sylvia Mackey Woman of the Year, Mike Ditka's Gridiron Greats

2018 Fast Company 100 Most Creative People in Business 2018

2018 Dr. Alan Ashare Safety Award, Massachusetts Hockey Association

2018 Henry Wisniewski Lifetime Achievement Award in Alzheimer's Disease Research, Alzheimer's Association

2018 Distinguished Alumnus, University of Wisconsin, Madison

2018 National Academy of Medicine

2018 Time 50 Most Influential People in Healthcare 2018, Time Magazine

2019 Commencement speaker, Boston University School of Medicine

2019 William Fairfield Warren Distinguished Professorship, Boston University

2019 Keynote address, European Congress of Sport Science, Prague, Czech Republic

2019 Samuel J. Heyman Service to America Medal, Paul Volker Career Achievement Award, Partnership for Public Service

2022 Keynote speaker, 12th Annual Markesbery Symposium on Aging and Dementia, Lexington, KY

**LICENSES AND CERTIFICATION:**

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

#### **DEPARTMENTAL AND UNIVERSITY COMMITTEES**

2018 - Promotions Committee, Boston University School of Medicine, Neurology Department

#### **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, Brain cutting sessions, Jamaica Plain and West Roxbury Veterans Administration Medical Centers

#### **MAJOR MENTORING ACTIVITIES:**

2021- Samatha Calderazzo, MS  
PhD Committee  
Current position: Post-doc McKee lab  
2020- Katharine Babcock, MS  
PhD Committee  
Current position: Post-doc, McKee lab  
2020- Mogane Butler

PhD Committee  
 Current position: Post-doc, McKee lab

2018- Daniel Kirsch, BS  
 Primary PhD Advisor  
 Current position, MD, PhD student, Boston University School of Medicine

2016-2021 Sarah Chancellor, BS  
 Secondary PhD Advisor  
 Current position: Industry

2015- 2019 Jon Cherry, PhD  
 Current position: Assistant Professor of Pathology, BUSM  
 Current position: VA Boston Healthcare System Research Health Scientist

2015- 2021 Ian Mahar, PhD  
 Current position: Industry

2009-2016 Dan Daneshvar, MD, PhD  
 Primary PhD Advisor  
 Current position: Assistant Professor, Physical Medicine and Rehabilitation,  
 Harvard Medical School  
 Boston, MA

Phillip Montenegro  
 PhD Advisory Committee  
 Current position: Boston University School of Medicine, Residency  
 Boston, MA

Christopher Nowinski, PhD  
 PhD committee  
 Current position: Concussion Legacy Foundation CEO

Chad Tagge, PhD  
 PhD Committee  
 Current position: Biomedical engineer, Becton-Dickinson Laboratory

Mark Wojnarowicz, PhD  
 PhD Committee  
 Current position: Patent reviewer at USPTO

Danielle Miller, PhD  
 PhD Committee  
 Current position: VA Boston Healthcare System

**MAJOR ADMINISTRATIVE RESPONSIBILITIES:**

1996- Director of the Neuropathology Core and Brain Bank, Boston University  
 Alzheimer's Disease Center

1997- Director of Brain Bank, Framingham Heart Study

2008- Director of Neuropathology, VA Boston

2008- Co-Director, Center for the Study of Traumatic Encephalopathy

2008- Director, UNITE (VA-BU-CLF) Brain Bank

- 2014- Director, Boston University CTE Center
- 2014- Associate Director, Boston University Alzheimer's Disease Center
- 2022- Director, Boston University Alzheimer's Disease Research Center

**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
- 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, 2<sup>nd</sup> Consensus Conference to define the Neuropathological Criteria for CTE, Boston, MA November 2016, Sponsored by NINDS and NIBIB
- 2018 Program Committee, Society for Neuroscience
- 2018 National Academy of Medicine
- 2019: Alzheimer's Disease Research Center Neuropathology Cores, Steering Committee

**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

Chair and Organizer, TBI as a risk factor for Alzheimer’s disease (AD) and AD-related dementia (ADRD) among Veterans. Veterans Affairs -National Institute on Aging- National Institute of Neurological Diseases and Stroke Workshop, February 24-25, 2019, Bethesda, MD

**PRIVATE/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

2014 Organizer with Lee Goldstein, Ramon Arrastia-Diaz, Keystone Symposium on Traumatic Brain Injury, Santa Fe, New Mexico, scheduled for January 2016

2018 Program Committee, Society for Neuroscience

**STUDY SECTIONS:**

None

**STATE:**

None

**CURRENT SUPPORT:**

***Title: Elucidating the Role of Myelin Degradation in Alzheimer’s Disease with Polarized-Light Imaging***

*Role on Project: Scientific Faculty*

*Type of Grant: BU Internal*

*Funding Agency: Kilachand Fund*

*Years Funded: 10/1/2022-9/30/2023*

*Total Direct Cost: \$500,000.00*

To demonstrate that myelin loss structural degradation are associated with AD-related dementias

*Title: VA ALS Biorepository Brain Bank*

*Role in Project: Ann McKee, PI*

*Type of Grant: VA Merit Review Award-BLR&D*

*Funding Agency: Department of Veterans Affairs BX002466*

*Years Funded: 10/01/2022- 9/30/2026*

*Total Direct Costs: \$3,189,991*

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

***Title: Late Pathologies of Exposure to Repetitive Head Impacts from Contract Sports: White Matter and Vascular Contributions to Cognitive Impairment, Dementia, and Neuropsychiatric Symptoms***

*Role on Project: MPI*

*Type of Grant: RF1*

*Funding Agency: NINDS*

*Years Funded: 9/15/2021-8/31/2024*

*Total Direct Cost: \$2,309,451.00*

Examine the association between RHI from contact sports and *in vivo* biomarkers of VM degeneration and CBVD

***Title: Boston University Alzheimer's Research Center***

*Role on Project: PI*

*Type of Grant: P30*

*Funding Agency: NIH/NIA P30-AG072978*

*Years Funded: 7/1/2021-6/30/2026*

*Total Direct Cost: \$6,453,324.00*

The goals are to build a broad-based research program in Alzheimer's disease to better understand the phenomenology and pathophysiology of the disease, and to facilitate treatment and prevention

***Title: Risk for Later-Life Cognitive Impairment, Neurobehavioral Dysregulation, and Dementia in Former Soccer and American Football Players: The Head Impact and Trauma Surveillance Study (HITSS)***

*Role in Project: Co-PI*

*Type of Grant: R01 (R. Stern) R01NS119651*

*Funding Agency: NIH*

*Years Funded: 2/1/2021-1/31/2026*

*Total Direct Costs: \$3,299,307*

***Title: Precision Monitoring and Assessment in the Framingham Study: Cognitive, MRI, Genetic and Biomarker Precursors of AD & Dementia, CORE 8038: Neuropath***

*Role in Project: Ann McKee, Core PI*

*Type of Grant: U19*

*Funding Agency: NIH/NIA, U19AG06875*

*Years Funded: 09/15/2020 – 05/31/2025*

*Total Direct Costs: \$337,197/yr: \$1,751,652/5 yrs*

***Title: Traumatic Brain Injury and Repetitive Head Impacts: Contributions to AD, ADRD and CTE Neuropathology and Resulting Clinical Syndromes***

*Role in Project: Ann McKee, PI*

Type of Grant: U54  
Funding Agency: NINDS/NIA, U54-NS-115266  
Years Funded: 09/01/2019 – 07/31/2024  
Total Direct Costs: \$1,250,000/yr: \$10,000,000/5 yrs

**Title: The Contribution of Age-Related Tauopathies to Alzheimer's Disease**  
Role in Project: Ann McKee, PI (contact), John Fonda Crary, Dennis Dickson PI  
Funding Agency: NIA, R01AG062348-03  
Years Funded: 09/30/2018 – 05/31/2024  
Total Direct Costs: \$500,000/yr: \$4,123,227/5 yrs

**Title: CTBI: CBI Tauopathy in Mice and Human: Neurodegeneration after Repetitive Neurotrauma: Mechanisms and Biomarker Discovery**  
Role in Project: Ann McKee, PI  
Type of Grant: VA Merit Award-BLR&D  
Funding Agency: Dept of Veterans Affairs BX004613  
Years Funded: 4/01/2019-12/31/2023  
Total Direct Costs: \$1,000,000  
Program: Neuropathological alterations after Blast TBI

#### **PHILANTHROPIC SUPPORT**

Nick and Lynn Buoniconti Foundation: McKee CTE Research 2018, 2019  
Anonymous: McKee 2016-  
WWE 2013-2015: McKee, Nowinski and Goldstein  
Andlinger Foundation 2012

#### **PENDING SUPPORT**

**Title: Contributions of Brain Trauma to AD/ADRD Neuropathology, including CTE, and Resulting Clinical Outcomes**  
Role on Project: Ann McKee, Investigator  
Type of Grant: U01  
Funding Agency: NIH/NIA/NINDS  
Years Funded: 4/1/2024-3/31/2029  
Total Direct Cost: \$6,499,999

**Title: Systems Analysis of Chronic Traumatic Encephalopathy**  
Role on Project: Ann McKee, Co-investigator  
Type of Grant: R01  
Funding Agency: NIH/NIA  
Years Funded: 9/1/2022-8/31/2027  
Total Direct Cost: \$536,160

#### **PAST SUPPORT**

**Title: White Matter Injury and Neuropsychiatric Symptoms in Young Contact Sport Athletes: learning to characterize neuropathology after repetitive head impacts**  
Role on Project: PI  
Type of Grant: Foundation  
Funding Agency: Mac Parkman Foundation  
Years Funded: 8/1/2022-7/31/2023 NCE  
Total Direct Cost: \$258,000.00

Study of White Matter Alterations after Repetitive Head injuries

***Title: Tau Pathology in CTE vs. Alzheimer's Disease: Microvasculopathy and Neuroinflammation***

*Role in Project:* Ann McKee, PI

*Type of Grant:* RF1

*Funding Agency:* NIH/NIA, 1RF1AG057902

*Years Funded:* 9/15/2017-8/31/2022

*Total Direct Costs:* \$2,469,346

***Title: VA Biorepository Brain Bank***

*Role in Project:* Ann McKee, PI

*Type of Grant:* VA National Center Grant

*Funding Agency:* Department of Veterans Affairs

*Years Funded:* 1/01/2014- 3/31/2022

*Total Direct Costs:* \$794,283

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

***Title: Updating the Neuropathological Criteria for PSP***

*Role in Project:* Ann McKee, subcontract PI

*Type of Grant:* UCSF/Foundation

*Funding Agency:* n/a

*Years Funded:* 12/1/2020 – 07/31/2021

*Total Direct Costs:* \$15,000

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

*Role in Project:* Neuropathology Core Leader

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

*Funding Agency:* NIH/NIA

*Years Funded:* 7/1/1996-6/30/2021

*Total Direct Costs:* \$965,065

***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- 7/30/2019

*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.

***Title: CTE and Posttraumatic Neurodegeneration: Neuropathology and Ex Vivo Imaging***

*Role in Project:* Ann McKee, PI

*Type of Grant:* UO1, NIH Cooperative agreement,

*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)

***Title: Tau Biomarkers 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:* 7/01/2013-6/30/2017

*Total Direct Costs:* \$1,092,348

*Program:* Tau protein and biomarkers in blast TBI

***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.

***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

***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.

***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.

**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.

**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

**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).

**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

**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

**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

**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>
- 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
- December 8, 2016** **Congressional Hearing on Congressional Hearing on Mixed Martial Arts: Issues and Perspectives,** Sponsored by the Subcommittee on Commerce, Manufacturing, and Trade, Rayburn Office building Washington, DC
- September 14, 2017** **Congressional Briefing on Understanding and Minimizing Sports-Related Brain Injuries,** Sponsored by the American Brain Coalition, Rayburn Office building, Washington DC
- October 13, 2017** Democratic Forum on **“Addressing the Long-Term Effects of Football-Related Brain Injuries”** House Energy and Commerce Committee and House Judiciary Committee, Rayburn Office building, Washington DC

**INVITED LECTURES AND PRESENTATIONS  
INTERNATIONAL:**

- 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
- 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
- September 24, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Neurotrauma Research Day, University of British Columbia
- 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
- 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

- April 19, 2013 *Chronic post-traumatic encephalopathy in professional sport*, John Groves Lectureship in Neuropathology, 6<sup>th</sup> Annual Neuropathology Day at McMaster, Hamilton, Ontario, Canada
- 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*, 3<sup>rd</sup> 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 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
- November 11, 2014 *CTE in athletes*, XXIV Congresso Brasileiro de Neurologica, Curitiba, Brazil
- June 5, 2015 *CTE: The Last Seven Years*. ISMRM 2015 Annual Meeting Plenary Presentation, Toronto Canada
- August 12, 2015 *Football, Hockey and the Brain*. Keynote Speaker, See the Line-Traumatic Brain Injury Symposium III, Western School of Medicine, London, Ontario
- 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
- July 16, 2017 *Tau Pathology and Traumatic Encephalopathy*, Alzheimer’s Association International Conference, London UK
- May 9, 2018 *Chronic Traumatic Encephalopathy*, Lori Dolman Lectureship, University of British Columbia, Vancouver, BC
- March 21, 2019 *CTE: An Update. The Problem with Soccer*. 13th Göttingen Meeting of the German Neuroscience Society, Gottingen Germany
- April 16, 2019 *CTE: Updates 2019*, British Neuroscience Association, Dublin, Ireland
- July 5, 2019 *CTE in Top Athletes*, European Congress of Sport Science, Prague, Czech Republic
- November 13, 2020 *Neurodegenerative Diseases and Cognition, Focusing on Chronic Traumatic Brain Injury and Vascular Injury*, The Annual Autumn Conference of the Korean Dementia Association (KDA), Seoul, South Korea, virtual
- Feb 6, 2021 *CTE*, Texas Neurological Society Annual Winter Conference, TX, virtual
- Feb 17, 2021 *Current Topics in TBI*, Trinity Biomedical Sciences Institute, Dublin Ireland, virtual
- April 8, 2021 *Pathological cases of CTE*, Montefiore Neurology Grand Rounds, Montefiore Medical Center, Bronx, NY, virtual

April 17, 2021 *CTE 2020: Where are we?* CTE, Barts & The London Neuroscience Society, London, England, virtual

April 28, 2021 *Brain injuries and sports: The neuropathological, emotional, and relational impact*, The 13th Annual Meeting of the Social & Affective Neuroscience Society, Victoria British Columbia, virtual

February 21-23, 2022 *Accelerating Drug Development for Tauopathies*, Tau 2022 Global Conference, virtual

February 16, 2023 The Inconvenient Truth About Contact Sports, University of Auckland, New Zealand

March 28, 2023 International Conference on Alzheimer's and Parkinson's Disease and related Neurological disorders, Gothenburg, Sweden

April 21, 2023 The Inconvenient Truth About Contact Sports, 10<sup>th</sup> Annual Concussion Research Symposium, University Health Network, Toronto, Canada

**NATIONAL:**

May 19th, 2009 *Chronic Traumatic Encephalopathy in Athletes*, National Football League, Mild Traumatic Brain Injury Committee, New York, NY

September 18, 2009 *Chronic Traumatic Encephalopathy: Progressive tauopathy following repetitive head injury*. Traumatic Brain Injury Workshop, Sponsored by NIA and NIH, Bethesda MD

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 26, 2010 *Center for the Study of Chronic Traumatic Encephalopathy*, National Football League Players' Association TBI committee, The Breakers, Palm Beach, FL

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, NC

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

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

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 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
- 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
- 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
- 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
- February 4, 2011 *Chronic Traumatic Encephalopathy: What we have learned from athletes* Sports-Related Brain Injury Panel Lecture, Nebraska Wesleyan University, Lincoln, NE
- 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 ME
- 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

June 19, 2011 *Chronic Traumatic Encephalopathy* National Athletic trainers Association Annual Meeting, New Orleans, LA

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, NY

September 21, 2011 *Chronic Traumatic Encephalopathy* Institute for Memory Impairments and Neurological Disorders Frontiers of the MIND Keynote Speaker, University of California Irvine, CA

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, Madison WI

November 16, 2011 *Chronic Traumatic Encephalopathy* President's Lecture Series on Health, Regis College, Wellesley, 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, WI

April 2, 2012 *Chronic Traumatic Encephalopathy*, Wisconsin coroners and medical examiners, Appleton WI

- April 17, 2012 *Chronic Traumatic Encephalopathy: What we have learned from athletes and Veterans*, Columbia-Presbyterian Neurology Grand Rounds, New York, NY
- May 25, 2012 *Chronic Traumatic Encephalopathy*, Loyola School of Medicine, Chicago IL
- 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 23, 2012 *Chronic Traumatic Encephalopathy 2012* AAAS-DANA Foundation Event on "The Science and Impact of TBI", Washington, DC
- 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
- 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, GA
- 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, NY
- 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, MN

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, TN

December 3, 2013 *Emerging Concepts in Chronic Traumatic Encephalopathy*, University of Tennessee Health Sciences Center, Memphis, TN

December 13, 2013 *Emerging Concepts in Chronic Traumatic Encephalopathy*, Mayo Clinic Jacksonville, Jacksonville, FL

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 20, 2014 Current concepts in CTE, Ochsner Neuroscience Institute, New Orleans, LA

June 9, 2014 *Ophthalmological Manifestations of CTE*, American Association of Neuropathologists, Portland, OR

October 16, 2014 *Emerging Concepts in CTE*, Deans Distinguished Lecture, Case Western Reserve University, Cleveland, OH

November 7, 2014 *Update on Chronic Traumatic Encephalopathy*, Elon University, NC

November 14, 2014 *Update on Chronic Traumatic Encephalopathy* University of New England, Providence, RI

November 20, 2014 *CTE: Emerging Concepts* Texas Neurological Society, Houston, TX

November 21, 2014 *Football and CTE* 4<sup>th</sup> Annual Huffines Discussion. Texas A&M, Houston, TX

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 20, 2015 *Boxing, football and the brain*, Joseph Leiter Lectureship, Medical Library Association/ National Library of Medicine, Austin TX

June 3, 2015 *Boxing, football and the brain*, Stanley Aronson Lecture, Brown University School of Medicine, Providence RI

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, OH

July 2, 2015 Pathological Considerations in CTE Neuroimaging, National Neurotrauma Society, Sante Fe, NM

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, NM

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, 5<sup>th</sup> Annual Translational Research Symposium

April 8, 2016 *CTE: A Trauma-induced Neurodegeneration*, Spring Brain Conference, Sedona, AR

April 29, 2016 *CTE 2016: What We Know Now* ARVO, Seattle WA

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 *Football and the Brain*, Keynote Speaker, Swedish Neuroscience Institute Annual Intensive Update in Neurology, Seattle, WA

November 29, 2016 *Football and the Brain*, Neurology Grand Rounds, University of Alabama, Birmingham, AL

December 1, 2016 *What We've Learned From Athletes*, Military Risk Factors for Dementia, sponsored by the Alzheimer's Association, Washington, DC

February 8-9, 2017 *Football and the Brain*, 2017 Regenerative Medicine Institute Symposium Stem Cells and Neurological Trauma: From the Playing Fields to the Battle Fields, February 9-10, 2017: Cedars-Sinai Medical Center, Los Angeles, CA

February 23, 2017 *CTE Update 2017*, Guest speaker, Institute for Neurodegenerative Diseases, University of California, San Francisco, CA

March 3, 2017 *Football and the Brain*, TBI Symposium, SUNY Upstate Medical University, Syracuse NY

March 8, 2017 *Football and the Brain*, Tom Parker Memorial Lectureship, The University of Oklahoma Health Sciences Center, Oklahoma City OK

March 31, 2017 *Football and the Brain*, Keynote speaker, Chicago Society for Neuroscience, Chicago IL

April 12, 2017 *Football and the Brain*, Peter W. Lampert Memorial Lectureship, University of California, San Diego, CA

April 27, 2017 *Neuropathology of CTE*, American Academy of Neurology, Boston MA

September 7, 2017 *Success is Not a Random Act*, Women's Fund, Appleton WI

September 14, 2017 *CTE: What We Know, What We Need to Know*, Washington, DC

October 5, 2017 *The Problem with Football*, Hunter lectureship, Southwestern Oklahoma University, Wethersford, OK

October 27, 2017 *Updates in CTE*, American Congress of Rehabilitation Medicine, Atlanta, GA

November 6, 2017 *Tau Pathology in Chronic Traumatic Encephalopathy*, Tau Retreat sponsored by the Milken Institute, Washington DC

December 7, 2017 *Post-traumatic Tauopathy*, Banbury Conference on Neuroinflammation, Cold Springs Harbor, NY

March 2, 2018 *Update on CTE: 2018* Neurology Grand Rounds, SUNY Downstate, Brooklyn, NY

March 26, 2018 *Update on CTE: 2018*, Ohio State University Neurosciences, Columbus OH

April 3, 2018 *Update on CTE: 2018*, New York Institute of Technology College of Osteopathic Medicine Distinguished Medical Lecture Series, Jonesboro, AK

May 7, 2018 *Microvascular Changes associated with Traumatic Brain Injury*, NHLBI Workshop on Vascular Contributions to Cognitive Impairment and Dementia In collaboration with NINDS, Bethesda MD

June 5, 2018 *The Faces of CTE*, The Seminar, La Cantera Resort, San Antonio TX.

June 14, 2018 *The Blonde Lady: My Experience with CTE*, Lawrence University, Appleton, WI

July 22, 2018 *CTE: A Post-Traumatic Tauopathy*, AAN Sports Concussion Conference, Indianapolis, IN

November 15, 2018 *CTE: A Post-Traumatic Tauopathy*, UCLA Molecular Biology Grand Rounds, Los Angeles, CA

- March 30, 2019 *The Face of CTE. The Changing Landscape of Concussion*  
Princeton University, Princeton, NJ
- April 25, 2019 *Key Health and Safety Issues Facing Collegiate Student Athletes with specific reference to Chronic Traumatic Encephalopathy*, Intercollegiate Athletics Scoping Meeting, National Academy of Sciences, Washington, DC
- December 2-3, 2020 *Breakthroughs in Brain Health*, Forbes Healthcare Summit, Jersey City, NJ, virtual
- December 9, 2020 *CTE 2020: Where are we?* Grand Round Series, University of Maryland, Baltimore MD, virtual
- February 6, 2021 *CTE 2021: Where are we?* Texas Neurological Society, Virtual Winter Conference, Houston, TX, virtual
- February 17, 2021 *CTE: Status Literature*, TBI Webinar Series 2021, Lexington, KY, virtual
- April 5, 2021 *Updates in Chronic Traumatic Encephalopathy*, Grand Rounds, Montefiore Medical Center, Bronx, NY virtual
- April 22, 2021 *CTE*: Claflin Society, Boston, MA virtual
- April 28, 2021 *Brain Injuries and sports: The neuropathological, emotional and relational impact*, Social Affective Neuroscience Society, University of California, Santa Barbara, CA virtual
- September 26-28, 2021 *Progress in Rehabilitation Research* ACRM 98<sup>th</sup> Annual Conference, Reston VA, virtual
- December 2, 2021 *Updates in Chronic Traumatic Encephalopathy (CTE)*, The McKnight Brain Institute, University of Florida, Gainesville, FL virtual
- April 11, 2022 *Updates in CTE 2022, Northshore Pathology Grand Rounds*, Evanston Hospital, Evanston, IL, virtual
- July 13-14, 2022 *NINDS Workshop, Imaging the Future of In vivo Neuropathological Diagnosis through Postmortem Analyses*, NIH, virtual
- July 31-Aug 4, 2022 *Traumatic Brain Injury and Dementia, The Clinicopathological Correlations of CTE*, Alzheimer's Association International Conference, San Diego, CA, virtual
- September 10, 2022 *Chronic Traumatic Encephalopathy Presentation*, Sports Law Symposium, Kansas City, MO virtual
- October 20-21, 2022 *CTE*, Fall ADRC Meeting, Chicago, IL Hybrid
- November 19, 2022 *The Inconvenient Truth about Football*, 12th Annual Markesbery Symposium on Aging and Dementia, Lexington, KY
- June 8-11, 2023 *99<sup>th</sup> Annual Meeting of the American Association of Neuropathologist (AANP)*, Monterey, CA Hybrid

## REGIONAL/LOCAL

- 1996 – 2016 *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 15, 2009 *Cognitive and Behavioral Neurology: Focus on Dementia, Harvard Medical School CME course, "Neuropathology of Dementia,"* Annual Course, Boston MA

- 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
- January 10, 2010 *Chronic Traumatic Encephalopathy*, Eastern Athletic Trainer's Association, Copley Marriot, Boston, MA
- February 25, 2010 *Chronic Traumatic Encephalopathy, an update*. Roxbury Society for Medical Improvement, The Country Club, Brookline, MA
- 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 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 15, 2010 *Cognitive and Behavioral Neurology: Focus on Dementia*, Harvard Medical School CME course, "Neuropathology of Dementia," Annual Course, Boston, MA
- June 8, 2010 *Chronic Traumatic Encephalopathy: a distinct pathological entity associated with head injuries*. Massachusetts Neuropsychology Society, Keynote Speaker, Brookline, MA
- 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
- 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 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 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 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

May 15, 2011 *Cognitive and Behavioral Neurology: Focus on Dementia, Harvard Medical School CME course, "CTE," Annual Course, Boston, MA*

December 1, 2011 *The Long-term Consequences of Repetitive Concussion, Boston University Academy, Boston, MA*

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 15, 2012 *Cognitive and Behavioral Neurology: Focus on Dementia, Harvard Medical School CME course, "CTE," Annual Course, Boston, MA*

October 6, 2012 *Chronic Traumatic Encephalopathy 2012 American Neurological Association annual meeting, Breakout Session on Behavioral Neurology, Boston, MA*

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*

March 13, 2013 *Emerging Concepts in Chronic Traumatic Encephalopathy* Neurosurgery Grand Rounds, Massachusetts General Hospital, Boston, MA

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*

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*

March 12, 2014 *Update on CTE, Alzheimer's Disease Center Lecture, Boston University, Boston MA*

May 15, 2014 *What is CTE? University of Wisconsin- Founders Day, Boston MA*

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 15, 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*

November 4, 2014 *Update on Chronic Traumatic Encephalopathy , Keynote Lecturer, Third Annual Joining Forces TBI/PTSD Boston University School of Medicine and VA Boston Conference, Boston University, Boston, MA*

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

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 29, 2015 *Cognitive and Behavioral Neurology: Focus on Dementia*, Harvard Medical School CME course, "The Neuropathology and Neurophysiology of CTE," Annual Course, Boston, MA

March 9, 2017 *Football and the Brain*, Pathology Seminar Series, Boston Children's Hospital, Boston, MA

October 8, 2017 *The BU CTE Center and VA-BU-CLF Brain Bank Experience*, Congress of Neurological Surgeons, Boston, MA

October 24, 2017 *CTE: Driving toward a Diagnosis during Life*, Precision Power Health, Cambridge, MA

November 9, 2017 *Neuropathology of CTE, Update on CTE: CME Course*, Boston University, Boston, MA

September 13, 2018 *The Face of CTE*, BU Center for Military and Post Deployment Health, Boston University School of Medicine, Boston, MA

September 20, 2018 *The Face of CTE*, Deans Advisory Board, Boston University School of Medicine, Boston, MA

October 1, 2018 *The Face of CTE*, Northeast Regional VA Nursing Alliance (Nervana) Colloquium-Care of the American Veteran, Boston College, Chestnut Hill, MA

October 9, 2018 *The Face of CTE*, BU Women's Guild Lunch and Learn, Boston University School of Medicine, Boston, MA

October 10, 2018 *What happens when science is unpopular or hard*, HUB week, City Hall Plaza, Government Center, Boston MA

October 24, 2018 *The Neuropathology of CTE*, CTE Conference, Boston University School of Medicine, Boston, MA

March 28, 2019 *The Face of CTE*. Massachusetts Medical Society, Boston, MA

November 14, 2019 *The Neuropathology of CTE*, CTE Conference, Boston University School of Medicine, Boston, MA

November 21, 2019 *Updates in CTE: Where are the current challenges?* Photonics Annual Conference, BU Photonics Center, Boston, MA

November 22, 2019 *What is CTE; The Faces of CTE; Current Challenges in CTE*. New England Orthopaedic Society Guest Professor, Massachusetts Medical Society, Waltham, MA

January 24, 2020 *The Faces of CTE*, Berwick Academy. Berwick, ME

October 7, 2020 *CTE*, 13<sup>th</sup> Concussion Legacy Gala, Boston, MA, virtual

October 17, 2020 *The Faces of CTE*, Boston University Family & Friends Weekend, Boston, MA, virtual

October 22, 2020 *RallyPoint Project Enlist & Brain Health*, Concussion Legacy Foundation, Boston, MA, virtual

November 4, 2020 *CTE 2020: Where are we?* UMass Amherst ION's Distinguished Lecture Seminar Series, UMass Amherst, Amherst, MA, virtual

October 21-22, 2021 5<sup>th</sup> Annual Fall Meeting (CTE) ADRC conference, Boston, MA virtual

October 27, 2022 6<sup>th</sup> Annual CTE Conference, Boston MA virtual

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## **CASE REPORTS, REVIEWS, CHAPTERS AND EDITORIALS LETTERS TO THE EDITOR AND CRITICAL REVIEWS**

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