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EDUCATION AND TRAINING:

Aug 1991 – Jun 1995	BS Biology, Honors	Stanford University, Stanford, CA.
Aug 1996 – May 2001	MD	Mayo Medical School, Rochester, MN.
Jul 2001 – Jun 2002	Medical Internship	Brigham & Women's Hospital, Boston, MA. Department of Internal Medicine
Jul 2002 – Jun 2005	Neurology Residency	University of California San Francisco, CA. Department of Neurology Chief Resident, Jul 2004 – Jun 2005
Jul 2005 – Jun 2007	Neurotology Fellowship	University of California Los Angeles, CA. Department of Neurology Neurotology Section
Jul 2005 – Mar 2008	Clinical Research Fellowship	University of California, Los Angeles, CA. K30 Program

LICENSURE:

California Medical Board License: July 2002-present

Oklahoma Medical Board License: Aug 2012-present

BOARD CERTIFICATION:

American Board of Psychiatry and Neurology: Initial 1/07, Recertified 2/17

PROFESSIONAL POSITIONS:

Jan 2017 – present	Principal Investigator, Laureate Institute for Brain Research, Tulsa, OK
Jan 2017 – present	Assistant Professor, University of Tulsa, Tulsa, OK
Nov 2015 – present	Staff Physician, Saint Francis Medical Center, Tulsa, OK
Aug 2012 – Dec 2016	Associate Investigator, Laureate Institute for Brain Research, Tulsa, OK
Aug 2012 – Dec 2016	Adjunct Assistant Professor, University of California Los Angeles Department of Neurology, Los Angeles, CA
Jul 2011 – Aug 2012	Assistant Professor in Residence, University of California Los Angeles Department of Neurology, Los Angeles, CA
Jul 2009 – Jun 2011	Visiting Assistant Professor, University of California Los Angeles Department of Neurology, Los Angeles, CA

Jul 2008 – Jun 2009 Visiting Researcher, University of California Los Angeles
 Department of Neurology, Los Angeles, CA

Jul 2005 – Jun 2008 Clinical Instructor, University of California, Los Angeles
 Department of Neurology, Los Angeles, CA

HONORS and AWARDS:

1998-99 Howard Hughes Medical Institute-NIH Research Scholars Program Fellowship

2000 Harry Hoffman Humanitarian Scholarship

2000 Award for Academic Achievement, Alpha Epsilon Iota

2002 Philanthropic Educational Organization Award for Research

2002 Excellence in Teaching Award, Tufts University School of Medicine

2004 Annual Meeting Resident Scholarship, American Association of Neurology

2005-07 Clinical Research Training Fellowship, American Association of Neurology

2007 Rare Diseases Research Network Conference Scholarship

2008 Early Career Distinguished Investigator Award, MdDS Foundation

2009 Hall of Fame, NORD (National Organization for Rare Disorders)

2011 Senior Visiting Research Fellow, University East London, London, UK

2017 Research Fellow, Totts-Gap Medical Research

PROFESSIONAL ACTIVITIES:

Grant Reviewer:

Jul 2013 NIH/NIDA, EUREKA R01

Jun 2016 Swiss National Science Foundation

Jun 2016 NIH/NIMH, BRAIN Initiative R01: *New Tools and Techniques for Spatiotemporal Precision*

Nov 2016 NIH/NIMH R61/R33: *Exploratory Clinical Trials of Novel Interventions for Mental Disorders*

Mar 2017 NIH/NIMH, BRAIN Initiative R01: *New Tools and Techniques for Spatiotemporal Precision*

Jun 2017 NIH/NIMH, R61/R33: *Exploratory Clinical Trials of Novel Interventions for Mental Disorders*

Editorial Boards:

Nov 2011 – present Review Editor, *Frontiers in Neurology* (Neurotology section)

Jun 2017 – present Associate Editor, *Frontiers in Neurology* (Neurotology section)

Ad hoc Reviewer:

Annals of Neurology, Archives of Psychiatry, Brain, Cephalalgia, European Neurology, Expert Review of Neurotherapeutics, Frontiers in Neurology, Headache, Human Brain Mapping, JAMA Psychiatry, Journal of Cerebral Blood Flow and Metabolism, Journal of Clinical Neurology, Journal of Headache and Pain, Journal of Neurological Disorders, Journal of Neurology, Journal of Vestibular Research, Neuroimage Clinical, Neurology, Neuromodulation: Technology at the Neural Interface, Neurorehabilitation and Neural Repair, Otology Neurotology, PLoS ONE, Psychopharmacology, Recent Patents on CNS Drug Discovery

Memberships in Professional Organizations:

Jul 2005 - present	American Academy of Neurology
Oct 2014 - present	American Headache Society
Dec 2014 – present	Organization for Human Brain Mapping
Jul 2015 - present	American Neurological Association

Other:

Aug 2007 – Aug 2012	Program Coordinator, Episodic Ataxia section, Consortium for Clinical Investigations of Neurologic Channelopathies (CINCH)
Feb 2008	Advisor for BPPV Panel, CPT Editorial Board, American Medical Association
May 2008 – Nov 2011	Consultant, Neurotology Clinic, Kaiser Los Angeles, Los Angeles, CA
July 17, 2012	NIH/NIDCD, Motion Perception and Balance Study Group
Mar 2017 - present	Committee for Classification Criteria, Barany Society, Chair for MdDS
Mar 2017 - present	Committee for Classification Criteria, Barany Society, Chair for Motion Sickness

VOLUNTEER ACTIVITIES:

Girl Scouts Co-leader, First Lego League Coach
Stanford University OVAL Volunteer

TEACHING:

Undergraduate Teaching:

Mar 13, 2013	Medical Informatics Course, University of Tulsa, “Smart Devices for Home-based Neuromodulation,” Tulsa, OK.
Oct 20, 2016	Principles of Neuroscience, University of Tulsa, “The Cerebellum: Anatomy and Function,” Tulsa, OK.
Sep 25, 2017	Biomedical Engineering seminar, University of Tulsa, “Brain Stimulation and Small Devices for Neuromodulation,” Tulsa, OK.

Medical Student Teaching:

- 2006 – 2009 Clinical Fundamentals in Neurology, second year clinical skills workshop, David Geffen School of Medicine, Los Angeles, CA.
- 2006 – 2007 Neurology Third Year Clerkship Case Leader, David Geffen School of Medicine, Los Angeles, CA.
- 2007 Problem Based Learning Tutor, Medical Neurosciences II Block, David Geffen School of Medicine, Los Angeles, CA.
- 2008 – 2012 Neurosciences II Block Lecturer, “Peripheral Vestibular Vertigo and Nystagmus,” David Geffen School of Medicine, Los Angeles, CA.

Resident Teaching:

- Sep 30, 2005 West LA Veteran’s Admin Hospital Clinic Conference: “Approach to the Dizzy Patient,” Los Angeles, CA.
- Aug 22, 2007 UCLA Department of Medicine Outpatient Didactic Conference: “Approach to Dizziness,” Los Angeles, CA.
- Oct 30, 2007 USC Resident Clinical Case Conference: “Approach to the Dizzy Patient,” Los Angeles, CA.
- Jan 9, 2008 UCLA Department of Medicine Outpatient Didactic Conference: “Approach to Dizziness,” Los Angeles, CA.
- May, 2008 Kaiser Los Angeles, Neurology Resident Case Conference (3 lectures), Los Angeles, CA.
- June, 2008 Kaiser Neurology Resident Lecture series (3 lectures), Los Angeles, CA.
- Apr 9, 2009 Huntington Memorial Hospital, “Evaluation of the Dizzy Patient,” Pasadena, CA.
- Aug 2009 UCLA Department of Internal Medicine: “Evaluation of the Dizzy Patient” (2 lectures), Los Angeles, CA.
- Aug 6, 2010 West Los Angeles, Veteran’s Administration Hospital Grand Rounds: “Diagnosis and Management of Peripheral Vestibular Disorders,” Los Angeles, CA.
- Aug 27, 2010 Kaiser Los Angeles, Neurology Resident Case Conference, “Diagnosis and Management of Peripheral Vestibular Disorders,” Los Angeles, CA.
- Sep 3, 2010 Harbor UCLA Grand Rounds: “Diagnosis and Management of Acute Vertigo,” Los Angeles, CA.
- Oct 10, 2010 UCLA Resident Clinic Conference: “Diagnosis and Management of Acute Vertigo,” Los Angeles, CA.
- Mar 15, 2011 Huntington Hospital Resident Curriculum: “Vertigo: Diagnosis and Treatment,” Pasadena, CA.
- Aug 17, 2011 Cedars Sinai Neurology Resident Didactics: “Dizziness and Vertigo: Diagnosis and Treatment,” Los Angeles, CA.
- Feb 22, 2017 UCLA Resident Curriculum: “Evaluation of Nystagmus,” “Evaluation of Vertigo,” “The ‘other’ cerebellum,” Los Angeles, CA.

INVITED LECTURES:

- Jan 8, 2008 Providence Medical Center, “Management of the Dizzy Patient,” Mission Hills, CA.
- Jan 6, 2009 Northridge Medical Center, “Management of the Dizzy Patient,” Northridge, CA.
- Aug 13, 2009 Physical Therapy Department, UCLA Medical Center, “Benign Paroxysmal Positional Vertigo,” Los Angeles, CA.
- Feb 20, 2010 Advances in Neurology and Neurosurgery, “Office Evaluation of the Dizzy Patient,” Cedars Sinai Medical Center, Los Angeles, CA.
- Aug 2, 2010 Iris Cantor Women’s Clinic (UCLA): “Mal de Debarquement Syndrome,” Los Angeles, CA.
- Jan 30, 2011 Headache Cooperative of the Pacific, “Migraine and Dizziness,” Ojai CA.
- Feb 26, 2011 Advances in Neurology and Neurosurgery, “Vertigo: Diagnosis and Treatment,” Cedars Sinai Medical Center, Los Angeles, CA.
- Sep 8, 2011 Laureate Institute for Brain Research, “Functional Neuroimaging and Neuromodulation in Mal de Debarquement Syndrome,” Tulsa, OK.
- Nov 4, 2011 University of East London Psychology of Physical Illness, “Mal de Debarquement Syndrome: Clinical Features, Treatment, and Research,” webcasted from Los Angeles, CA.
- Jun 22, 2012 American Headache Society Symposium, “Vestibular and Cochlear Systems in Migraine,” Los Angeles, CA.
- Jul 17, 2012 NIDCD Motion Perception Workshop, “Functional Neuroimaging and Neuromodulation as tools to investigate balance disorders: Mal de Debarquement Syndrome,” Rockville, MD.
- Dec 11, 2012 William K. Warren Foundation Neuroscience Lecture, “Patients who Rock and Roll: The intersection of dizziness and anxiety,” Tulsa, OK.
- Apr 25, 2014 Dr. Robert Baloh Festschrift, “Mal de Debarquement Syndrome: New Insights,” Philadelphia, PA.
- Jun 6, 2016 29th Annual Barany Society, Symposium, “Mal de Debarquement Syndrome Neuroimaging and Neuromodulation Updates,” Seoul, South Korea
- Apr 18, 2017 Center for Hearing and Balance, Johns Hopkins Medical Center, “Mal de Debarquement Syndrome: Modern Insights Into a Centuries Old Phenomenon,” Baltimore, MD.
- May 25, 2017 Healthy Brains Lecture series, Tulsa, OK, “The Balanced Brain” Tulsa, OK.

RESEARCH GRANTS:

ON-GOING:**CoBRE-NEUROMAP**

9/15/2017-7/31/2022

Cerebellar Neuromodulation to Enhance Fear Extinction and Predict Response to Exposure Therapy

The goal of this project is to determine whether 1) the process of fear extinction can be enhanced with stimulation of the cerebellum, 2) there are neuroimaging correlates of the modulation of the fear extinction pathway after cerebellar stimulation, and 3) neuroplasticity of fear extinction after cerebellar stimulation predicts response to future exposure therapy

Role: PI Project 1

NARSAD Young Investigator Grant

1/15/17-1/14/19

Enhancing Fear Extinction Through Cerebellar Neuromodulation

The goal of this project is to determine whether transcranial magnetic stimulation of the cerebellum can enhance the fear extinction process by either speeding up learning or by increasing retention of new safe-stimulus associations.

Role: PI

NSF EPSCoR RII Track-2

8/15/16-8/14/18

Innovative, Broadly Accessible Tools for Brain Imaging Decoding, and Modulation.

Lead Site: University of Rhode Island. PI: Walter Besio

The goal of this interdisciplinary multi-institute study is to develop hardware (simultaneous EEG/fNIRS and tripolar concentric ring electrodes) to record neural activity with high temporal and spatial resolution and to develop algorithms for neuromodulation based on these multimodal systems.

Role: Co-I and Project lead for Aim IV: *Noninvasive brain stimulation guided by multimodal neuroimaging*

Springbank Foundation

3/9/16-3/8/18

Non-invasive brain stimulation therapies for Mal de Debarquement Syndrome

The purpose of this funding was to investigate non-invasive brain stimulation in the treatment of spontaneous onset of rocking vertigo, similar to MdDS. In addition, it funds a transcranial alternating current study on motion-triggered MdDS.

Role: PI

MdDS Balance Disorders Foundation

8/1/14-12/31/17

Development of Imaging and EEG Biomarkers to Refine Neuromodulation Treatment Targets in MdDS

The goal of this study is to determine whether functional connectivity changes measured by EEG and fMRI can be used as a biomarker for treatment response and to determine whether any baseline functional connectivity changes predict response to neuromodulation.

Role: PI

COMPLETED:**R03 DC010451; NIH/NIDCD**

3/1/10-2/28/15

Functional Neuroimaging and Transcranial Magnetic Stimulation in Mal de Debarquement Syndrome

The goal of this grant was to determine whether there are imaging markers for the persistent sensation of motion that is experienced by patients with mal de debarquement syndrome. These neuroimaging markers have become the targets for neuromodulation using transcranial magnetic stimulation.

Role: PI

OCAST-OHRP

9/1/13-8/31/14

Development of a home based neuromodulation program to treat a chronic balance disorder.

The goal of this study was to determine whether a home-based program of transcranial direct current stimulation (tDCS) following a course of on-site transcranial magnetic stimulation (TMS) can prolong the benefits of TMS. The study also created an infrastructure for home-based neuromodulation that can be applied to other disorders.

Role: PI

UCLA CTSI Academic Senate

6/1/12-5/30/13

Functional Neuroimaging and Neuromodulation in Mal de Debarquement Syndrome.

The goal of this project was to perform a double-blind sham controlled trial of five days of transcranial magnetic stimulation in patients with medically refractory mal de debarquement syndrome in order to determine whether sequential days of treatment can produce lasting symptom relief and to determine the strength of the placebo response with this treatment.

Role: PI

MdDS Balance Disorders Foundation

12/1/12

Equipment Grant

This grant provided funding for transcranial magnetic stimulation and neuronavigation laboratory equipment, supplies, technician support, and subject reimbursement.

Role: PI

NIH/Rare Diseases Clinical Research

9/03-7/12

Network Nervous System Channelopathies: Pathogenesis & Treatment

PI: Robert Griggs

The goal of this project was to clinically and genetically characterize patients with neuronal channelopathies. UCLA was the primary coordinating site for the Episodic Ataxia arm of the project. We followed patients identified with Episodic Ataxia to determine changes in their clinical profile and to determine whether there are correlates with their genetic profile.

Role: Program Coordinator and Clinical Evaluator

Mal de Debarquement Balance Foundation

2/09-1/12

Functional Neuroimaging and repetitive magnetic stimulation in the treatment of mal de debarquement.

This was a private foundation grant provided for pilot funding and technical assistance for the initial stages of investigating the effect of neuromodulation strategies in mal de debarquement syndrome.

Role: PI

UCLA Neurology Department Seed Grant

7/08-6/10

Functional Neuroimaging and repetitive magnetic stimulation in the treatment of mal de debarquement.

This grant was the first given by the UCLA Department of Neurology which helped the PI with start-up costs for pilot studies.

Role: PI

AAN Clinical Research Training Fellowship

7/05-6/07

Characterization and genetic location of new forms of episodic ataxia.

The goal of this project was to characterize patients and families with new forms of Episodic Ataxia that did not fit the profile of Episodic Ataxia types 1 and 2, the two most common forms.

Role: PI

PUBLICATIONS:

1. Rocheleau CE, Downs Wd, Lin RL, Wittman C, Bei YX, **Cha YH**, Ali M, Priess JR, Mello CC. *Wnt* signaling and an APC-related gene specify endoderm in early *C. elegans* embryos. *Cell* 1997;90:707-716
2. **Cha YH**, Chi J, Barbaro N. Spontaneous spinal subdural hematoma with the use of low molecular weight heparin. *J Neurosurg Spine* 2005;2:612-3
3. Jen JC, Lee H, **Cha YH**, Nelson SF, Baloh RW. Genetic heterogeneity of autosomal dominant non- progressive congenital ataxia. *Neurology* 2006;67:1704-7
4. **Cha YH**, Baloh RW. Migraine associated vertigo. *J Clin Neurol* 2007; 3: 121-126. PMCID: PMC2686840
5. **Cha YH**, Brodsky J, Ishiyama G, Sabatti C, Baloh RW. The relevance of migraine in Meniere's Disease. *Acta Otolaryngol* 2007;127:1241-5
6. **Cha YH**, Lee H, Jen JC, Kattah JC, Nelson SF, Baloh RW. Episodic vertical oscillopsia with progressive gait ataxia: Clinical description of a new episodic disorder with evidence of linkage to chromosome 13q. *J Neurol Neurosurg Psychiatry* 2007;78:1273-5. PMCID: PMC2117610
7. Lee H, Sininger L, Jen JC, **Cha YH**, Baloh RW, Nelson SF, Association of progesterone receptor with migraine associated vertigo. *Neurogenetics* 2007;8:195-200
8. **Cha YH**, Millett D, Kane MJ, Jen JC, Baloh RW. Adult onset alternating hemiplegic migraine with cortical enhancement and edema. *Cephalalgia* 2007;27:1166-70
9. **Cha YH**, Kane MJ, Baloh RW. Familial clustering of migraine, episodic vertigo and Meniere's disease. *Oto Neurotol* 2008; 29:93-6. PMCID: PMC2820370
10. Lee H, Jen JC, **Cha YH**, Nelson SF, Baloh RW. Phenotypic and genetic analysis of a large family with migraine associated vertigo. *Headache*. 2008 Nov-Dec;48(10):1460-7. PMCID: PMC2846425
11. **Cha YH**, Brodsky J, Ishiyama GP, Sabatti C, Baloh RW. Clinical features and associated syndromes of mal de débarquement. *J Neurol* 2008; 255:1038-44. PMCID: PMC2820362
12. **Cha YH**, Lee H, Sininger-Santell L, Baloh RW. Association of benign recurrent vertigo and migraine in 208 Patients. *Cephalalgia* 2009 May;29(5):550-5. PMCID: PMC2820365
13. Narvid J, Gorno-Tempini ML, Slavotinek A, Dearmond SJ, **Cha YH**, Miller BL, Rankin K. Of brain and bone: the unusual case of Dr. A. *Neurocase* 2009;15(3):190-205
14. **Cha YH**, Chakrapani S, Craig A, Baloh RW. Metabolic and functional connectivity changes in mal de débarquement syndrome. *PLoS ONE* 2012 7:e49560. PMCID: PMC3510214
15. **Cha YH**, Cui Y, Baloh RW. Repetitive transcranial magnetic stimulation for Mal de Debarquement Syndrome, *Otol Neurotol*. 2013 Jan;34(1):175-9. PMCID: PMC3529198
16. **Cha YH**, Cui Y. Rocking dizziness and headache: a two-way street, *Cephalalgia*, 2013, May 33:1160-1169
17. **Cha YH**, Jog M, Kim Y-C, Chakrapani S, Kraman S, Wang "Danny" JJ, Regional correlation between resting state FDG PET and pCASL perfusion MRI, *J Cereb Blood Flow Metab*. 2013 Dec;33(12):1909-14. PMCID: PMC3851899
18. Graves, TD, **Cha YH**, Hahn A, Barohn R, Amato A, Griggs RC, Bundy BN, Jen JC, Baloh RW, Hanna MG on behalf of CINCH Investigators. Episodic ataxia 1: characterization, quality of life, and genotype-phenotype correlation. *Brain* 2014 Apr;137(Pt 4):1009-18. PMCID: PMC3959554

19. Ding L, Shou G, Yuan H, Urbano D, **Cha YH**. Lasting modulation effects of rTMS on neural activity and connectivity as revealed by resting state EEG. *IEEE Trans Biomed Eng.* 2014 Jul;61(7):2070-80
20. Arroll MA, Attree EA, **Cha YH**, Dancey CP. The relationship between symptom severity, stigma, illness intrusiveness and depression in Mal de Debarquement Syndrome. *J Health Psychol.* 2016 Jul;21(7):1339-50.
21. **Cha, YH** Mal de Debarquement Syndrome: new insights. *Ann N Y Acad Sci.* 2015 Apr;1343:63-8. PMID: PMC4409476
22. **Cha YH**, Chakrapani S. Voxel based morphometry alterations in mal de debarquement syndrome. *PLoS One.* 2015 10:e135021. PMID: PMC4529307
23. **Cha YH**, Deblieck C, Wu A. Double-blind sham-controlled cross-over trial of repetitive transcranial magnetic stimulation for Mal de Debarquement Syndrome. *Otol Neurotol.* 2016 Jul;37(6):805-12. PMID: PMC4907861
24. **Cha YH**, Urbano D, Pariseau N. Randomized single blind sham controlled trial of adjunctive home-based tDCS after rTMS for Mal de Debarquement Syndrome: safety, efficacy, and participant satisfaction assessment. *Brain Stimul.* 2016 Jul-Aug;9(4):537-44.
25. Bergamino M, Victor T, Kuplicki R, **Cha YH**, Paulus MP. Comparison of two different analysis approaches for DTI free-water corrected and uncorrected maps in the study of white matter microstructural integrity in individuals with depression, *Human Brain Mapping*, 2017 Sept;38(9):4690-4702
26. Yuan H, Shou G, Urbano D, Ding L, **Cha YH**. Resting state functional connectivity signature of treatment effects of rTMS in Mal de Debarquement Syndrome, *Brain Connectivity*, Epub Oct 1, 2017

BOOK CHAPTERS:

1. **Cha YH**, Eggers SD, Froehling DA. Dizziness and vertigo. In: Oliveira GHM, Nesbitt GC, Murphy JG, editors. *Mayo Clinic Medical Manual*. Rochester, Minnesota: Mayo Clinic Scientific Press and New York: Informa Healthcare USA; 2006, p103-8
2. **Cha YH**, Worrell GA, Cascino GD. Epileptic seizures. In: Oliveira GHM, Nesbitt GC, Murphy JG, editors. *Mayo Clinic Medical Manual*. Rochester, Minnesota: Mayo Clinic Scientific Press and New York: Informa Healthcare USA; 2006, p539-49
3. **Cha, Yoon-Hee**. Chapter 37: Neurotology and Ear Disorders, in *Essentials of Modern Neuroscience* (McGraw-Hill Lange Series), ed. Amthor, Theibert, Standaert, Roberson, release date to be determined
4. **Cha, Yoon-Hee**. Chapter 15: Migraine and Vertigo, in *Oxford Textbook of Headache Syndromes* (Oxford Textbooks in Clinical Neurology), ed. Ferrari, Haan, Charles, Dodick, Sakai. Oxford University Press, to be released 2018

REVIEWS:

1. **Cha YH**, Baloh RW. Migraine associated vertigo. *J Clin Neurol* 2007; 3: 121-126
2. **Cha YH**. Mal de debarquement. *Semin Neurol.* 2009;29 (5):520-7. PMID: PMC2846419
3. **Cha YH**. Migraine associated vertigo: diagnosis and treatment, *Semin Neurol.* 2010; 30:167-74
4. **Cha YH**. Acute vestibulopathy, *Neurohospitalist*, 2011; 1:32-40. PMID: PMC3726104

5. **Cha YH.** Treatment of chronic tinnitus with theta burst stimulation. *J Watch Neurol*, 2012; May
6. **Cha YH.** Long-term follow-up of vestibular migraine. *J Watch Neurol*, 2012; Oct
7. **Cha YH.** Less common neuro-otologic disorders, *Continuum*, 2012; Oct (18):1142-57

EDITORIALS:

1. **Cha YH.** Migraine a risk factor for SSNHL, *Cephalalgia*, 2013; 33(2):77-9
2. Van Ombergen A, Wuyts FL, **Cha YH.** Letter to the Editor: comment and erratum to “Mal de debarquement syndrome: a systematic review.” *J Neurol* 2016 May; 263 (5): 855-601

ABSTRACTS/PRESENTATIONS:

1. Downs WD, **Cha YH.** *mom-1*: a gene necessary for proper blastomere polarity may encode an internal membrane protein. Early 1996 West Coast Worm Meeting, Abstract 39
2. Downs WD, **Cha YH.** Mello CC, Priess JR. The gene *mom-1* implicates a wnt/wingless pathway in establishing cell polarity and asymmetric lineages in *C. elegans*. Early 1997 International Worm Meeting, Abstract 134
3. **Cha YH,** Ishiyama A, Ishiyama G, Lopez I, Baloh RW. Reactive arthritis associated with subacute bilateral sensorineural hearing loss. Poster at the 2004 AAN Annual Meeting, San Francisco, CA
4. **Cha YH,** Jen JC, Lee H, Nelson SF, Baloh SF, Genetic heterogeneity with autosomal dominant non-progressive congenital ataxia. Poster at the 2006 AAN Annual Meeting, San Diego, CA
5. **Cha YH,** Lee H, Johnston J, Jen JC, Nelson SF, Baloh RW, A new episodic ataxia syndrome with strong hormone dependence. Poster at the 2006 AAN Annual Meeting, San Diego, CA
6. **Cha YH,** Brodsky J, Ishiyama G, Sabatti C, Baloh RW. The Distinction of the Migraine-Meniére’s syndrome from Meniere’s disease. Poster at the 2007 AAN Annual Meeting, Boston, MA.
7. **Cha YH,** Lee H, Jen JC, Kattah JC, Nelson SF, Baloh RW. Episodic vertical oscillopsia with progressive gait ataxia: Clinical description of a new episodic disorder with evidence of linkage to Chromosome 13q. Conference on Clinical Research for Rare Diseases, National Institutes of Health Sept 5, 2007
8. **Cha YH,** Lee H, Sininger-Santell L, Baloh RW. Association of Benign Recurrent Vertigo and Migraine in 208 Patients. Scientific Platform Session, 2009 AAN Annual Meeting, Seattle, WA.
9. **Cha YH,** Jen JC, Baloh RW, CINCH Investigators. Late onset episodic ataxia: case series. Poster. 2011 AAN Annual Meeting, Honolulu, HI
10. **Cha YH,** Chakrapani S, Baloh RW. Left entorhinal cortex and amygdala hypermetabolism in mal de debarquement syndrome. Poster 2012 AAN Annual Meeting, New Orleans, LA—April 24, 2012
11. Graves TD, **Cha YH,** Venance S, Barohn R, Amato A, Griggs RC, Bundy BN, Jen JC, Baloh RW, Hanna MG, on behalf of the CINCH investigators. Episodic ataxia type 1: Preliminary results from a genotype-phenotype correlation and natural history study. Poster 2012 AAN Annual Meeting, New Orleans, LA

12. Graves TD, Fialho D, Smith S, Walker M, **Cha YH**, Amato A, Griggs RC, Bundy BN, Jen JC, Baloh RW, Hanna MG on behalf of the CINCH investigators. EEG abnormalities in the episodic ataxias. Platform Presentation 2012 AAN Annual Meeting, New Orleans, LA.
13. Kim YC, **Cha YH**, Chakrapani S, Wang DJ. Resting state regional correlation between FDG PET and pCASL perfusion MRI. 2012 International Society for Magnetic Resonance in Medicine, Melbourne, Australia—May 7, 2012
14. **Cha YH**, Cui YY, Baloh RW. Repetitive transcranial magnetic stimulation for Mal de Debarquement Syndrome. Poster 2013 AAN Annual Meeting, San Diego, CA
15. Shou G, Yuan H, Urbano D, **Cha YH**, Ding L. Changes of symptom and EEG in Mal De Debarquement Syndrome patients after repetitive transcranial magnetic stimulation over bilateral prefrontal cortex: a pilot study. The 36th Annual International IEEE EMBS Conference, August 26-30, 2014
16. Shou G, Yuan H, Urbano D, **Cha YH**, Ding L. Resting state EEG oscillatory activities link to the efficacy of rTMS in mal de debarquement syndrome. in *IEEE BRAIN Grand Challenges Conference*, Washington DC, November 13-14, 2014
17. Yuan H, Urbano D, Ding L, **Cha YH**. Impact of rTMS on resting state functional connectivity in mal de debarquement syndrome: lasting neuromodulatory effect and correlation with efficacy. The Fourth Biennial Conference on Resting State/Brain Connectivity. September 11-13, 2014
18. Shou G, Yuan H, Urbano D, **Cha YH**, Lei Ding. Identifying Neurophysiological correlates to treatment effects of rTMS in a balance disorder: an independent component analysis on resting-state EEG signal. The 7th International IEEE EMBS Conference on Neural Engineering of the IEEE Engineering in Medicine and Biology Society Montpellier, France, April 22-24, 2015
19. Yuan H, Urbano D, Ding L, **Cha YH**. Impact of rTMS on resting state functional connectivity in mal de debarquement syndrome: lasting neuromodulatory effect and correlation with efficacy. Organization for Human Brain Mapping, Honolulu, HI, June 14-18, 2015.
20. G. Shou, H. Yuan, D. Urbano, Y. H. Cha, and L. Ding. Mapping EEG signatures linked to rTMS-induced effects in a balance disorder, Organization for Human Brain Mapping, Honolulu, HI, June 14-18, 2015.
21. **Cha YH**, Suzuki H, Urbano D, Misaki M, Bodurka J. Voxel based morphometry analysis of the cerebellum in healthy and depressed subjects. Organization for Human Brain Mapping, Honolulu, HI, June 14-18, 2015.
22. Bergamino M, Victor T, Kuplicki R, **Cha YH**, Paulus MP. Comparison of two different DTI analysis approaches in individuals with major depressive disorder. Organization for Human Brain Mapping meeting, Geneva, Switzerland, June 26-30, 2016
23. Shou G, Yuan H, Urbano D, **Cha YH**, Ding L. Frequency-dependent modulation to endogenous EEG by rTMS treatment in mal de debarquement syndrome. Organization for Human Brain Mapping meeting, Geneva, Switzerland, June 26-30, 2016
24. Shou G, Yuan H, Urbano D, **Cha YH**, Ding L. Optimizing rTMS treatment of a balance disorder with EEG neural synchrony and functional connectivity. Presentation Conference: 38th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, August 17, 2016
25. Shou G, Yuan H, Urbano D, **Cha YH**, and Ding L. Optimizing rTMS treatment using EEG neuroimaging in a balance disorder,” OCNS symposium, OKC, November 3, 2016

26. Chen Y, Li C, Shou G, Urbano D, **Cha YH**, Ding L, Yuan H. Assessing rTMS effects in MdDS: cross-modal comparison between resting state EEG and fMRI connectivity.” *1st OU-OUHSC Biomedical Engineering Symposium, March 24, 2017*
27. **Cha YH**, Urbano D, Shou G, Yuan H, Ding L. Theta burst stimulation for mal de débarquement syndrome. *American Academy of Neurology 69th Annual Meeting, April 22-28, 2017, Boston, MA. USA*
28. **Cha YH**, Urbano D, Pariseau N. Maintenance home-based neuromodulation therapy with tDCS after induction treatment with rTMS for mal de débarquement syndrome. *American Academy of Neurology 69th Annual Meeting, April 22-28, 2017, Boston, MA. USA*
29. Li C, Yuan H, Urbano D, **Cha YH**, and Ding L, Resting state networks estimated from EEG: a simulation and real experiment study. *The 1st OU-OUHSC Biomedical Engineering Symposium, March 24, 2017, Oklahoma City, OK*
30. Shou G, Yuan H, Urbano D, **Cha YH**, Ding L. A comparison study of nonlinear and linear metrics in probing intrinsic brain networks from EEG data. *IEEE Engineering in Medicine and Biology Society, Shanghai China, May 25-28, 2017*
31. Chen Y, Li C, Shou G, Urbano D, **Cha YH**, Ding L, Yuan H, Assessing rTMS effects in MdDS: cross-modal comparison between resting state EEG and fMRI connectivity. *IEEE Engineering in Medicine and Biology Society, Shanghai China, May 25-28, 2017*
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