

## Curriculum Vitae

**Name: Chia-Hsiung Cheng (鄭嘉雄), OT, Ph.D.**



### Correspondence Information

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### Employments

Professor 2022-present  
Department of Occupational Therapy  
Chang Gung University, Taiwan

Adjunct Researcher 2022-present  
Department of Psychiatry  
Linkou Chang Gung Memorial Hospital, Taiwan

### Experience

Associate Professor 2018-2022  
Department of Occupational Therapy  
Chang Gung University, Taiwan

Assistant Professor 2014-2018  
Department of Occupational Therapy, Chang Gung University

Adjunct Assistant Researcher 2014-2018  
Department of Psychiatry, Chang Gung Memorial Hospital

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| Post-doctoral research fellow<br>Institute of Brain Science, National Yang-Ming University               | 2013-2013 |
| Visiting scholar<br>McConnell Brain Imaging Center, Montreal Neurological Institute<br>McGill University | 2012-2013 |
| Part-time occupational therapist<br>Shih-Pai Shih-Ho Rehabilitation Joint Clinic                         | 2009-2012 |

### Education

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| Ph.D., Institute of Brain Science<br>National Yang-Ming University, Taiwan     | 2009-2013 |
| M.S., Institute of Brain Science<br>National Yang-Ming University, Taiwan      | 2007-2009 |
| B.S., Department of Occupational Therapy<br>National Taiwan University, Taiwan | 2003-2007 |

### Professional License

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| Occupational therapist license (No. 002214) | 2007-present |
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### Membership

Organization for Human Brain Mapping (OHBM)  
International society for the Advancement of Clinical Magnetoencephalography (ISACM)  
Taiwan Occupational Therapy Association (TOTA)

### Public Services

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| Vice chairman<br>Committee of professional quality,<br>Taiwan Occupational Therapy Association (TOTA) | 2017-2019 |
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### Research Interests

- Brain aging and cognitive decline
- Magnetoencephalography (MEG) in clinical application
- Event-related potentials (ERPs) in clinical application

- Neural mechanisms of innovative rehabilitation approaches
- Cognitive neuroscience
- Meta-analysis

### **Honors and Awards**

- Chang Gung Research Incentive Fund, Chang Gung Memorial Hospital, Taiwan, 2014-2022
- Excellent Young Scholar Research Grant, Ministry of Science and Technology, Taiwan, 2019
- Funding for Development of Excellent Scholars, Ministry of Science and Technology, Taiwan, 2016
- Excellent research paper publication award and scholarship, National Yang-Ming University, Taipei, Taiwan, 2012
- Research award of LiFu medical research foundation, Taiwan, 2012
- Scholarship of "Graduate Student Study Abroad Program", National Science Council, Taiwan, 2012-2013
- Excellent research paper publication award and scholarship, National Yang-Ming University, Taipei, Taiwan, 2010
- Scholarship of excellent thesis from Yin Hsun-Jo Award, National Yang-Ming University, Taipei, Taiwan, 2009
- Excellent research award from Japan Biomagnetism and Bioelectromagnetics Society, Kanazawa, Japan, 2009
- Academic Achievement Award (to the top 5% of students in the class), National Taiwan University, Taipei, Taiwan, 2003

### **Journal Reviewer**

PLOS ONE (SCI, 2014-2017)  
International Journal of Psychophysiology (SCI, 2016, 2019)  
Experimental Brain Research (SCI, 2016)  
Neuroscience Letters (SCI, 2016, 2018)  
European Child and Adolescent Psychiatry (SCI, 2016)  
Biological Psychology (SCI, 2017)  
Oncotarget (SCI, 2017)  
Frontiers in Human Neuroscience (SCI, 2017, 2020-2022)  
Frontiers in Neuroscience (SCI, 2017)  
NeuroImage (SCI, 2017, 2020)  
NeuroImage: Clinical (SCI, 2018)  
Psychiatry Research (SCI, 2018)  
Frontiers in Psychiatry (SCI, 2019)  
Brain and Behavior (SCI, 2019, 2021)  
Neural Plasticity (SCI, 2019)

Frontiers in Aging Neuroscience (SCI, 2020, 2021)  
Frontiers in Psychology (SCI, 2020)  
Psychiatry Investigation (SCI, 2020)  
Autism Research (SCI, 2020, 2022)  
Molecular Autism (SCI, 2020)  
Frontiers in Neurology (SCI, 2020, 2021)  
Cerebral Cortex (SCI, 2021)  
Neurophysiologie Clinique (SCI, 2021)

### Invited Talks

**Healthy Aging Research Center, Chang Gung University.** Does subjective cognitive decline reflect objective alterations of brain function? (Dec. 4, 2019)

**Yuli Hospital, Taiwan.** Subjective cognitive decline (SCD): Progress and perspectives (Aug. 22, 2019)

**Department of Psychiatry, Linkou Chang Gung Memorial Hospital, Taiwan.** Subjective memory complaints (SMC): Progress and perspectives (Dec. 18, 2018)

**Research Center of Brain and Consciousness, Taipei Medical University, Taiwan.** Invited lecture: Magnetoencephalography: Clinical implication of rehabilitation sciences (Jun. 22, 2018)

**6th Asian-Oceanian Congress of Clinical Neurophysiology (AOCCN), Bengaluru, India.** Invited lecture: MEG studies of the auditory system: From basic research to neurodegeneration (Nov. 11, 2017)

**College of Medicine, Chang Gung University, Taoyuan, Taiwan.** Magnetoencephalography (MEG): Clinical implication for occupational therapy and rehabilitation sciences (Apr. 13, 2017)

**Taiwan Society of Clinical Neurophysiology, endorsed by the AO Chapter of International Federation on Clinical Neurophysiology, Kaohsiung, Taiwan.** Advanced educational program: MEG in clinical research: Experiences from healthy aging to neurodegeneration (Aug. 23, 2015)

**Department of Psychiatry, Linkou Chang Gung Memorial Hospital, Taiwan.** Invited talk: Magnetoencephalography (MEG) and mismatch negativity (MMN): From basic research to clinical application (Jun. 30, 2015)

**5th Biennial meeting of ISACM, Helsinki, Finland.** Invited lecture: Neuromagnetic responses of the cortical somatosensory system in patients with writer's cramp (Jun. 25, 2015)

**Department of Occupational Therapy, National Taiwan University, Taipei, Taiwan.** Special talk: Cortical sensory gating and deviance detection: From normal aging to neurodegeneration (Mar. 9, 2015)

**Department of Physical Therapy, Chang Gung University, Taoyuan, Taiwan.** Special talk: Cortical sensory gating and deviance detection: From normal aging to neurodegeneration (Apr. 2, 2015)

### Journal Articles

\*corresponding author, #equal contribution

1. Chan PY, Chang WP, [Cheng CH](#), Liu CY, von Leupoldt A, Hsu AL\*, Wu CW\*. The impact of emotional context on neural substrates of respiratory sensory gating. **Frontiers in Neuroscience** 2022, 16: 1004271 (SCI, IF = 5.152, Ranking = 32% NEUROSCIENCES)
2. Ito E, Nouchi R\*, Dinet J, [Cheng CH](#), Husebø BS. The effect of music therapy on general cognitive and executive functions, and episodic memory in people with mild cognitive impairment and dementia: A systematic review and meta-analysis of recent randomized controlled trials. **Healthcare** 2022, 10: 1462 (SCI, IF = 3.160, Ranking = 39.77% HEALTH POLICY & SERVICES)
3. Chao YP, Liu PT, Wang PN, [Cheng CH\\*](#). Reduced inter-voxel white matter integrity in subjective cognitive decline: Diffusion tensor imaging with tract-based spatial statistics analysis. **Frontiers in Aging Neuroscience** 2022, 14: 810998 (SCI, IF = 5.750, Ranking = 16.98% GERIATRICS & GERONTOLOGY)
4. Chan PY\*, [Cheng CH\\*](#), Liu CY, Davenport PW. Cortical sources of respiratory mechanosensation, laterality, and emotion: An MEG study. **Brain Sciences** 2022, 12: 249 (SCI, IF = 3.394, Ranking = 57.50% NEUROSCIENCES)
5. Chan PY\*, [Cheng CH](#), Wu YT, Wu CW, Hsu AL, Liu CY, Liu HL, Davenport PW. Neural substrates of respiratory sensory gating: A human fMRI study. **Biological Psychology** 2022, 169: 108277 (SCI, IF = 3.251, Ranking = 30.76% PSYCHOLOGY, EXPERIMENTAL)
6. Hung CC, Chang CC, Huang CW, Nouchi R, [Cheng CH\\*](#). Gut microbiota in patients with Alzheimer's disease spectrum: A systematic review and meta-analysis. **Aging** 2022, 14: 477-496 (SCI, IF = 5.682, Ranking = 24.24% GERIATRICS & GERONTOLOGY)

7. Hsieh MT, Lu H, Chen LF, Liu CY, Hsu SC, [Cheng CH\\*](#). Cancellation but not restraint ability is modulated by trait anxiety: An event-related potential and oscillation study using Go-Nogo and stop-signal tasks. **Journal of Affective Disorders** 2022, 299: 188-195 (SCI,SSCI, IF = 4.839, Ranking = 17.48% PSYCHIATRY)
8. Jian JR<sup>#</sup>, Lin YY<sup>#</sup>, Connor L, [Cheng CH\\*](#). Revisiting the relationship between neural correlates of sensory gating and self-reported sensory gating inventory: An MEG investigation. **Neuroscience Letters** 2022, 766: 136336 (SCI, IF = 3.046, Ranking = 68.13% NEUROSCIENCES)
9. Tai RY, Zhu JD, Chen CC, Hsieh YW\*, [Cheng CH\\*](#). Modulation of functional connectivity in response to mirror visual feedback in stroke survivors: An MEG study. **Brain Sciences** 2021, 11: 1284 (SCI, IF = 3.394, Ranking = 57.50% NEUROSCIENCES)
10. Lin SH, [Cheng CH](#), Wu CY\*, Liu CT, Chen CL, Hsieh YW. Mirror visual feedback induces M1 excitability by disengaging functional connections of perceptuo-motor-attentional processes during asynchronous bimanual movement: A magnetoencephalographic study. **Brain Sciences** 2021, 11: 1092 (SCI, IF = 3.394, Ranking = 57.50% NEUROSCIENCES)
11. Tseng YJ, Nouchi R, [Cheng CH\\*](#). Mismatch negativity (MMN) in patients with major depressive disorder: A meta-analysis. **Clinical Neurophysiology** 2021, 132: 2654-2665 (SCI, IF = 3.708, Ranking = 28.23% CLINICAL NEUROLOGY)
12. Chen PY, Hsu HY, Chao YP, Nouchi R, Wang PN, [Cheng CH\\*](#). Altered mismatch response of inferior parietal lobule in amnesic mild cognitive impairment: A magnetoencephalographic study. **CNS Neuroscience & Therapeutics** 2021, 27: 1136-1145 (SCI, IF = 5.243, Ranking = 19.63% PHARMACOLOGY & PHARMACY)
13. Hsieh MT, Lu H, Lin CI, Sun TH, Chen YR, [Cheng CH\\*](#). Effects of trait anxiety on error processing and post-error adjustments: An event-related potential study with stop-signal task. **Frontiers in Human Neuroscience** 2021, 15: 650838 (SCI, IF = 3.169, Ranking = 35.06% PSYCHOLOGY)
14. Sun HH, Lin MY, Nouchi R, Wang PN, [Cheng CH\\*](#). Neuromagnetic evidence of abnormal automatic inhibitory function in subjective memory complaint. **European Journal of Neuroscience** 2021, 53: 3350-3361 (SCI, IF = 3.386, Ranking = 57.87% NEUROSCIENCES)
15. [Cheng CH\\*](#), Chang CC, Chao YP, Lu H, Peng SW, Wang PN. Altered mismatch response precedes gray matter atrophy in subjective cognitive decline (SCD). **Psychophysiology** 2021, 58: e13820 (SCI, IF = 4.016, Ranking = 15.55% PSYCHOLOGY, EXPERIMENTAL)

16. Hsu WY, [Cheng CH](#), Zanto T, Gazzaley A, Bove R. Effects of transcranial direct current stimulation on cognition, mood, pain and fatigue in multiple sclerosis: a systematic review and meta-analysis. **Frontiers in Neurology** 2021, 12: 626113 (SCI, IF = 4.003, Ranking = 34.61% CLINICAL NEUROLOGY)
17. Hsieh YW, Lee MT, Lin YH, Chuang LL, Chen CC, [Cheng CH\\*](#). Motor cortical activity during observing a video of real hand movements versus computer graphic hand movements: An MEG study. **Brain Sciences** 2021, 11: 6 (SCI, IF = 3.394, Ranking = 57.50% NEUROSCIENCES)
18. [Cheng CH\\*](#), Liu CY, Hsu SC, Tseng YJ. Reduced coupling of somatosensory gating and gamma oscillation in panic disorder. **Psychiatry Research: Neuroimaging** 2021, 307: 111227 (SCI, IF = 2.367, Ranking = 71.42% PSYCHIATRY)
19. [Cheng CH\\*](#), Hsu SC, Liu CY. Dysfunctional frontal activation of mismatch negativity in panic disorder: A magnetoencephalographic study. **Journal of Affective Disorders** 2021, 280: 211-218 (SCI,SSCI, IF = 4.839, Ranking = 17.48% PSYCHIATRY)
20. Lin MY, [Cheng CH\\*](#). Effect of age in auditory Go/Nogo task: A magnetoencephalographic study. **Brain Sciences** 2020, 10: 667 (SCI, IF = 3.394, Ranking = 57.50% NEUROSCIENCES)
21. Tai RY, Zhu JD, [Cheng CH](#), Tseng YJ, Chen CC, Hsieh YW\*. Cortical neural activity evoked by bilateral and unilateral mirror therapy after stroke. **Clinical Neurophysiology** 2020, 131: 2333-2340 (SCI, IF = 3.708, Ranking = 28.23% CLINICAL NEUROLOGY)
22. [Cheng CH\\*](#), Wang PN, Mao HF, Hsiao FJ\*. Subjective cognitive decline detected by the oscillatory connectivity in the default mode network: A magnetoencephalographic study. **Aging** 2020, 12: 3911-3925 (SCI, IF = 5.682, Ranking = 24.24% GERIATRICS & GERONTOLOGY)
23. [Cheng CH\\*](#), Hsiao FJ, Hsieh YW, Wang PN\*. Dysfunction of inferior parietal lobule during sensory gating in patients with amnesic mild cognitive impairment. **Frontiers in Aging Neuroscience** 2020, 12: 39 (SCI, IF = 5.750, Ranking = 16.98% GERIATRICS & GERONTOLOGY)
24. [Cheng CH\\*](#), Liu CY, Hsu SC. Altered functional connectivity between primary and secondary somatosensory areas in panic disorder. **Psychiatry Research** 2020, 285: 112808 (SCI, IF = 3.222, Ranking = 41.95% PSYCHIATRY)

25. Chen TC, Hsieh M, Lin YT, Chan PY, [Cheng CH\\*](#). Mismatch negativity to different deviant changes in autism spectrum disorders: A meta-analysis. **Clinical Neurophysiology** 2020, 131: 766-777 (SCI, IF = 3.708, Ranking = 28.23% CLINICAL NEUROLOGY)
26. [Cheng CH](#), Lin SH, Wu CY\*, Liao YH, Chang KC, Hsieh YW. Mirror illusion modulates M1 activities and functional connectivity patterns of perceptual-attention circuits during bimanual movements: A magnetoencephalography study. **Frontiers in Neuroscience** 2020, 13: 1363 (SCI, IF = 4.677, Ranking = 31.86% NEUROSCIENCES)
27. Zhu JD<sup>#</sup>, [Cheng CH<sup>#</sup>](#), Tseng YJ, Chou CC, Hsieh YW\*, Liao YH. Modulation of motor cortical activities by action observation and execution in patients with stroke: An MEG study. **Neural Plasticity** 2019, 8481371 (SCI, IF = 3.591, Ranking = 35.58% NEUROSCIENCES)
28. Yang SH, Wang PN, [Cheng CH\\*](#). Altered auditory repetition suppression and MMNm in relation to cognitive tests in older adults. **Biological Psychology** 2019, 146: 107725 (SCI, IF = 2.627, Ranking = 29.54% PSYCHOLOGY, EXPERIMENTAL)
29. [Cheng CH\\*](#), Tsai HY, Cheng HN. The effect of age on N2 and P3 components: A meta-analysis of Go/Nogo tasks. **Brain and Cognition** 2019, 135: 103574 (SCI, IF = 2.619, Ranking = 30.68% PSYCHOLOGY, EXPERIMENTAL)
30. [Cheng CH\\*](#), Chan PY, Hsu SC, Liu CY. Abnormal frontal generator during sensory gating in panic disorder: An MEG study. **Psychiatry Research: Neuroimaging** 2019, 288: 60-66 (SCI, IF = 2.270, Ranking = 54.10% PSYCHIATRY)
31. Chan PY<sup>#</sup>, [Chang CH<sup>#</sup>](#), Wu YT, Wu CW, Liu HL, Shaw FZ, Liu CY, Davenport P. Cortical and subcortical neural correlates for respiratory sensation in response to transient inspiratory occlusions in humans. **Frontiers in Physiology** 2018, 9: 1804 (SCI, IF = 3.394, Ranking = 24.10% PHYSIOLOGY)
32. Lin MY, Tseng YJ, [Cheng CH\\*](#). Age effects on spatiotemporal dynamics of response inhibition: An MEG study. **Frontiers in Aging Neuroscience** 2018, 10: 386 (SCI, IF = 3.582, Ranking = 14.28% GERIATRICS & GERONTOLOGY)
33. [Cheng CH\\*](#), Lin MY, Yang SH. Age effect on automatic inhibitory function of the somatosensory and motor cortex: An MEG study. **Frontiers in Aging Neuroscience** 2018, 10: 53 (SCI, IF = 4.504, Ranking = 14.28% GERIATRICS & GERONTOLOGY)



34. [Cheng CH\\*](#). Effects of observing normal and abnormal goal-directed hand movements on somatosensory cortical activation. **European Journal of Neuroscience** 2018, 47: 48-57 (SCI, IF = 2.941, Ranking = 49.42% NEUROSCIENCES)
35. [Cheng CH\\*](#), Niddam DM, Hsu SC, Liu CY, Tsai SY. Resting GABA concentration predicts inhibitory control during an auditory Go-Nogo task. **Experimental Brain Research** 2017, 235: 3811-3841 (SCI, IF = 1.917, Ranking = 74.90% NEUROSCIENCES)
36. [Cheng CH\\*](#), Chan PY, Hsu SC, Liu CY. Meta-analysis of sensorimotor gating in patients with autism spectrum disorders. **Psychiatry Research** 2018, 262: 413-419 (SCI, IF = 2.528, Ranking = 45.77% PSYCHIATRY)
37. Shih TY, Wu CY, Lin KC, [Cheng CH](#), Hsieh YW\*, Chen CL, Lai CJ, Chen CC. Effect of action observation therapy and mirror therapy after stroke on rehabilitation outcomes and neural mechanisms by MEG: study protocol for a randomized controlled trial. **Trials** 2017, 18: 259 (SCI, IF = 1.969, Ranking = 60.93% MEDICINE, RESEARCH & EXPERIMENTAL)
38. [Cheng CH\\*](#), Tsai SY, Liu CY, Niddam DM. Automatic inhibitory function in the human somatosensory and motor cortices: An MEG-MRS study. **Scientific Reports** 2017, 7: 4234 (SCI, IF = 4.259, Ranking = 15.63% MULTIDISCIPLINARY SCIENCES)
39. [Cheng CH\\*](#), Sun HH, Weng JQ, Tseng YJ. Differential motor cortex excitability during observation of normal and abnormal goal-directed movement patterns. **Neuroscience Research** 2017, 123: 36-42 (SCI, IF = 2.060, Ranking = 71.70% NEUROSCIENCES)
40. [Cheng CH\\*](#), Chan PY, Liu CY, Hsu SC. Auditory sensory gating in patients with bipolar disorders: A meta-analysis. **Journal of Affective Disorders** 2016, 203: 199-203 (SCI, IF = 3.382, Ranking = 26.56% CLINICAL NEUROLOGY)
41. Chan PY\*, [Cheng CH](#), Ju YJ, Chen CY, von Leupoldt A. Being anxious, thinking positively: the effect of emotional context on respiratory sensory gating. **Frontiers in Physiology** 2016, 7: 19 (SCI, IF = 3.534, Ranking = 24.09% PHYSIOLOGY)
42. [Cheng CH\\*](#), Tseng YJ, Chen RS, Lin YY. Reduced functional connectivity of somatosensory network in writer's cramp patients. **Brain and Behavior** 2016, 6: e00433 (SCI, IF = 2.243, Ranking = 58.8% BEHAVIORAL SCIENCES)

43. [Cheng CH\\*](#), Chan PY, Niddam DM, Tsai SY, Hsu SC, Liu CY. Sensory gating, inhibition control and gamma oscillations in the human somatosensory cortex. **Scientific Reports** 2016, 6: 20437 (SCI, IF = 5.578, Ranking = 8.77% MULTIDISCIPLINARY SCIENCES)
44. [Cheng CH\\*](#), Chan PY, Hsieh YW, Chen KF. A meta-analysis of mismatch negativity in children with attention deficit-hyperactivity disorders. **Neuroscience Letters** 2016, 612: 132-137 (SCI, IF = 2.03, Ranking = 68.65% NEUROSCIENCES)
45. [Cheng CH\\*](#), Baillet S, Lin YY. Region-specific reduction of auditory sensory gating in older adults. **Brain and Cognition** 2015, 101: 64-72 (SCI, SSCI, IF = 2.477, Ranking = 31.76% PSYCHOLOGY, EXPERIMENTAL)
46. Chan PY\*, [Cheng CH](#), Hsu SC, Liu CY, von Leupoldt A. Respiratory sensory gating measured by respiratory-related evoked potentials in generalized anxiety disorder. **Frontiers in Psychology** 2015, 6: 957 (SSCI, IF = 2.56, Ranking = 17.82% PSYCHOLOGY, MULTIDISCIPLINARY)
47. [Cheng CH](#), Liu CJ, Ou SM, Yeh CM, Chen TJ, Lin YY\*, Wang SJ\*. Incidence and risk factors of seizures in Alzheimer's disease: A nationwide population-based cohort study. **Epilepsy Research** 2015, 115: 63-66 (SCI, IF = 2.02, Ranking = 59.38% CLINICAL NEUROLOGY)
48. Chan PY\*, [Cheng CH](#), von Leupoldt A. The effect of development in respiratory sensory gating measured by electrocortical activations. **Neural Plasticity** 2015, 2015: 389142 (SCI, IF = 3.58, Ranking = 34.13% NEUROSCIENCES)
49. [Cheng CH\\*](#), Chan PY, Baillet S, Lin YY\*. Age-related reduced somatosensory gating is associated with altered alpha frequency desynchronization. **Neural Plasticity** 2015, ID 389142 (SCI, IF = 3.58, Ranking = 34.13% NEUROSCIENCES)
50. [Cheng CH](#), Baillet S, Hsiao FJ, Lin YY\*. Effects of aging on the neuromagnetic mismatch detection to speech sounds. **Biological Psychology** 2015, 104: 48-55 (SCI, SSCI, IF = 3.40, Ranking = 11.76% PSYCHOLOGY, EXPERIMENTAL)
51. Hsiao FJ, Chen WT, Wang PN, [Cheng CH](#), Lin YY\*. Temporo-frontal functional connectivity during auditory change detection is altered in Alzheimer's disease. **Human Brain Mapping** 2014, 35: 5565-5577 (SCI, IF = 5.97, Ranking = 4.00% RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING)

52. [Cheng CH](#), Soong BW, Hsu WY, Lin YY\*. Reduced automatic frontal response to auditory deviance in Huntington's disease as indexed by magnetic mismatch negativity. **Journal of Clinical Neuroscience** 2014, 21: 1773-1778 (SCI, IF = 1.38, Ranking = 78.13% CLINICAL NEUROLOGY)
53. [Cheng CH](#), Lin YY\*. Current perspectives toward mismatch negativity (MMN) in aging, neurological, psychiatric and neurodevelopmental diseases. **Journal of Taiwan Occupational Therapy Research and Practice** 2013, 9: 147-159
54. [Cheng CH](#), Hsu WY, Lin YY\*. Effects of physiological aging on mismatch negativity: A meta-analysis. **International Journal of Psychophysiology** 2013, 90: 165-171 (SCI, SSCI, IF = 2.88, Ranking = 24.71% PSYCHOLOGY, EXPERIMENTAL)
55. [Cheng CH](#), Baillet S, Hsiao FJ, Lin YY\*. Effects of aging on neuromagnetic mismatch responses to pitch changes. **Neuroscience Letters** 2013, 544: 20-24 (SCI, IF = 2.03, Ranking = 68.65% NEUROSCIENCES)
56. [Cheng CH](#), Lin YY\*. Aging-related decline in somatosensory inhibition of the human cerebral cortex. **Experimental Brain Research** 2013, 226: 145-152 (SCI, IF = 2.04, Ranking = 67.86% NEUROSCIENCES)
57. Hsiao FJ, [Cheng CH](#), Chen WT, Lin YY\*. Neural correlates of somatosensory paired-pulse suppression: a MEG study using distributed source modeling and dynamic spectral power analysis. **NeuroImage** 2013, 72: 133-142 (SCI, IF = 6.36, Ranking = 2.40% RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING)
58. Hsu WY, [Cheng CH](#), Liao KK, Lee IH, Lin YY\*. Effects of repetitive transcranial magnetic stimulation on motor functions in stroke patients: A meta-analysis. **Stroke** 2012, 43: 1849-1857 (SCI, IF = 5.72, Ranking = 6.77% CLINICAL NEUROLOGY)
59. [Cheng CH](#), Lin YY\*. The effects of aging on lifetime of auditory sensory memory in humans. **Biological Psychology** 2012, 89: 306-312 (SCI, SSCI, IF = 3.40, Ranking = 11.76% PSYCHOLOGY, EXPERIMENTAL)
60. [Cheng CH](#), Wang PN, Hsu WY, Lin YY\*. Inadequate inhibition of redundant auditory inputs in Alzheimer's disease: An MEG study. **Biological Psychology** 2012, 89: 365-373 (SCI, SSCI, IF = 3.40, Ranking = 11.76% PSYCHOLOGY, EXPERIMENTAL)

61. Hsu WY, [Cheng CH](#), Lin MW, Shih YH, Lin YY\*. Antiepileptic effects of low frequency repetitive transcranial magnetic stimulation: a meta-analysis. **Epilepsy Research** 2011, 96: 231-240 (SCI, IF = 2.02, Ranking = 59.38% CLINICAL NEUROLOGY)
62. [Cheng CH](#), Hsu WY, Shih YH, Lin HC, Liao KK, Wu ZA, Lin YY\*. Differential cerebral reactivity to the shortest and longer tones: Neuromagnetic and behavioral evidence. **Hearing Research** 2010, 268: 260-270 (SCI, IF = 2.97, Ranking = 4.65% OTORHINOLARYNGOLOGY)
63. Hsiao FJ, [Cheng CH](#), Liao KK, Lin YY\*. Cortico-cortical phase synchrony in auditory mismatch processing. **Biological Psychology** 2010, 84: 336-345 (SCI, SSCI, IF = 3.40, Ranking = 11.76% PSYCHOLOGY, EXPERIMENTAL)
64. Hsu WY, [Cheng CH](#), Lin HC, Liao KK, Wu ZA, Ho LT, Lin YY\*. Memory-based mismatch response to change in duration of auditory stimuli: an MEG study. **Clinical Neurophysiology** 2010, 121: 1744-1750 (SCI, IF = 3.10, Ranking = 30.21% CLINICAL NEUROLOGY)