

Curriculum Vitae

1. **Name:** Jun-Cheng Weng
2. **Institution:** Chang Gung University
3. **Position:** Associate professor
4. **Department:** Department of Medical Imaging and Radiological Sciences
5. **Address:** No. 259, Wenhua 1st Rd., Guishan Dist., Taoyuan City 33302, Taiwan
6. **Tel/Fax:** +886-3-2118800 ext. 5394
7. **E-mail:** jcweng@mail.cgu.edu.tw
8. **Personal Website:** <https://sites.google.com/site/jcweng>
9. **Focus of Interest:** Magnetic Resonance Imaging, Brain Connectome Analysis, Biomedical Image Processing, Biomedical Signal Analysis.
For CGU system: (15) Medical Technology, and Clinical Pathology, (17) Neurosciences, (32) Radiology, Nuclear Medicine, (33) Medical Imaging.
10. **Fulltime and Part-time Employment:**
 - (1) Associate Professor, Department of Medical Imaging and Radiological Sciences, Chang Gung University (2017/08 ~)
 - (2.1) Associate Professor, Department of Medical Imaging and Radiological Sciences, Chung Shan Medical University (2012/08 ~ 2017/07)
 - (2.2) Research Consultant, Department of Medical Imaging, Chung Shan Medical University Hospital (2009/08 ~ 2017/07)
 - (2.3) Joint Appointment Associate Professor, Department of Biomedical Sciences, Chung Shan Medical University (2012/08 ~ 2016/07)
 - (3) Adjunct Associate Professor, Department of Nursing, National Taichung University of Science and Technology (2017/02 ~ 2017/07)
 - (4.1) Assistant Professor, Department of Medical Imaging and Radiological Sciences, Chung Shan Medical University (2009/08 ~ 2012/07)
 - (4.2) Joint Appointment Assistant Professor, Department of Biomedical Sciences, Chung Shan Medical University (2010/08 ~ 2012/07)
11. **Education:**

Ph.D., Department of Electrical Engineering, National Taiwan University (2002/09 ~ 2008/01)

M.E., Institute of Biomedical Engineering, National Taiwan University (2000/09 ~ 2002/06)

B.S., Department of Medical Imaging and Radiological Sciences, Chang Gung University (1997/09 ~ 2000/06)



12. Honors and Awards:

Special Outstanding Talent Award, Ministry of Science and Technology, Taipei, Taiwan, 2017

Project for Excellent Junior Research Investigators, Ministry of Science and Technology, Taipei, Taiwan, 2015

13. Selected Main Publications (up to 5):

1. Yeu-Sheng Tyan, Jan-Ray Liao, Chao-Yu Shen, Yu-Chieh Lin, **Jun-Cheng Weng***, “Gender Differences in the Structural Connectome of the Teenage Brain Revealed by Generalized q-Sampling MRI”, *NeuroImage: Clinical*, 2017; 15, 376-382.
2. **Jun-Cheng Weng**, Te-Wei Kao, Guo-Joe Huang, Yeu-Sheng Tyan, Hsien-Chun Tseng, Ming-Chou Ho*, “Evaluation in Structural Connectivity Changes in Betel-quid Chewers using Generalized q-Sampling MRI”, *Psychopharmacology*. 2017; 234(13), 1945-1955.
3. Vincent Chin-Hung Chen, Chao-Yu Shen, Sophie Hsin-Yi Liang, Zhen-Hui Li, Yeu-Sheng Tyan, Yin-To Liao, Yin-Chen Huang, Yena Lee, Roger S. McIntyre, **Jun-Cheng Weng***, “Assessment of Abnormal Brain Structures and Networks in Major Depressive Disorder Using Morphometric and Connectome Analyses”, *Journal of Affective Disorders*, 2016; 205, 103-111.
4. **Jun-Cheng Weng**, Kai-Hsiang Chuang*, Artem Goloshevsky, Stephen Dodd, Kathryn Sharer, “Mapping plasticity in the forepaw digit barrel subfield of rat brains using functional MRI”, *NeuroImage*, 2011; 54(2), 1122-1129.
5. **Jun-Cheng Weng**, Jyh-Horng Chen, Pai-Feng Yang, Wen-Yih Isaac Tseng*, “Functional Mapping of Rat Barrel Activation Following Whisker Stimulation Using Activity-Induced Manganese-Dependent Contrast”, *NeuroImage*: 2007; 36(4), 1179-1188.

14. Patents: N/A

15. Board Certification:

Associate Professor Certification (REG. NO: 042901)

Assistant Professor Certification (REG. NO: 026644)

Medical Radiologist Certification (REG. NO: 002862)

16. Ongoing Projects:

1. Vincent Chin-Hung Chen, **Jun-Cheng Weng**, Yuan-Hsiung Tsai, Ming-Chou Ho, “Psychobiological makers of suicidal ideation: a follow-up study”, Ministry of Science and Technology, Taipei, Taiwan, 2017/8/1 - 2020/7/31; No. MOST106-2314-B-182-040-MY3.
2. Ying-Jui Ho, **Jun-Cheng Weng**, Chih-Li Lin, “Exploring the mechanisms of dementia with Lewy bodies (DLB) for its diagnostics and treatment: role of glutamatergic hyperactivity”, Ministry of Science and Technology, Taipei, Taiwan, 2017/8/1 - 2019/7/31; No. MOST106-2410-H-040-003-MY2.
3. **Jun-Cheng Weng**, Vincent Chin-Hung Chen, Shu-Ling Huang, Ming-Chou Ho, “Evaluation in chemotherapy, PTSD and PTG effects on brain connectome and cognitive function of breast cancer survivors using perfusion-based functional connectivity”, Ministry of Science and Technology, Taipei, Taiwan, 2017/8/1 - 2018/7/31; No. MOST106-2221-E-182-079.
4. Yuan-Hsiung Tsai, Vincent Chin-Hung Chen, **Jun-Cheng Weng**, “Body-Mind Interaction among Cancer Patients: A Prospective Study - Longitudinal Evaluation in Chemotherapy-Induced Brain Connectome Changes in Cancer Patients with Multimodal MRI Technologies”, Chang Gung Memorial

- Hospital, Chiayi, Taiwan, 2017/6/1 - 2018/5/31; No. CORPG6G0101.
5. Chia-Fen Hsu, Vincent Chin-Hung Chen, **Jun-Cheng Weng**, “Investigating the neural and behavioural correlates of boredom in Attention-Deficit/Hyperactivity Disorder (ADHD)”, Ministry of Science and Technology, Taipei, Taiwan, 2017/3/1 - 2018/2/28; No. MOST106-2410-H-040-001.
 6. Ming-Chou Ho, **Jun-Cheng Weng**, Vincent Chin-Hung Chen, Chieh-Liang Huang, Ren-Hau Li, Yin-To Liao, “Effect of the retrieval-extinction procedure on addiction: patients in smoking cessation”, Ministry of Science and Technology, Taipei, Taiwan, 2016/8/1 - 2019/7/31; No. MOST105-2410-H-040-001-MY3.
 7. Li-Wei Kuo, **Jun-Cheng Weng**, “Development of an MRI-guided Platform on Breast Applications”, Ministry of Science and Technology, Taipei, Taiwan, 2015/8/1 - 2018/7/31; No. MOST104-2221-E-400-002, MOST105-2221-E-400-002, MOST106-2221-E-400-002.
 8. **Jun-Cheng Weng**, Kai-Hsiang Chuang, Li-Wei Kuo, “Pharmacological modulation of functional connectivity in rodent brain using FAIR perfusion and BOLD fMRI”, Ministry of Science and Technology, Taipei, Taiwan, 2015/8/1 - 2017/12/31; No. MOST104-2628-E-182-004-MY2.
 9. Ying-Jui Ho, **Jun-Cheng Weng**, Yia-Ping Liu, Ching-Han Yu, Tamara Amstislavskaya, Maria Tikhonova, Mikhael Tenditnik, “Elucidating the mechanisms underling neuroprotection and improvement of cognitive function with ceftriaxone treatment in PD animal models”, Russian Foundation of Basic Research, Russia, and Ministry of Science and Technology, Taipei, Taiwan, 2015/1/1 - 2017/12/31; No. MOST104-2923-H-040-001-MY3.

17. All Publications:

26. Hse-Huang Chao, Yin-To Liao, Vincent Chin-Hung Chen, Cheng-Jui Li, Roger S. McIntyre, Yena Lee, **Jun-Cheng Weng***, “Correlation between brain circuit segregation and obesity”, Behavioural Brain Research, 2017. (accepted)
25. Vincent Chin-Hung Chen, Tsai-Ching Hsu, Li-Jeng Chen, Hong-Chun Chou, **Jun-Cheng Weng***, Bor-Show Tzang*, “Effects of taurine on resting-state fMRI activity in spontaneously hypertensive rats”, PLoS One, 2017; 12(7), e0181122.
24. Yeu-Sheng Tyan, Jan-Ray Liao, Chao-Yu Shen, Yu-Chieh Lin, **Jun-Cheng Weng***, “Gender Differences in the Structural Connectome of the Teenage Brain Revealed by Generalized q-Sampling MRI”, NeuroImage: Clinical, 2017; 15, 376-382.
23. Ming-Hong Hsieh, Wan-Yun Meng, Wen-Chieh Liao, **Jun-Cheng Weng**, Hsin-Hua Li, Hong-Lin Su, Chih-Li Lin, Ching-Sui Hung, Ying-Jui Ho*, “Ceftriaxone reverses deficits of behavior and neurogenesis in an MPTP-induced rat model of Parkinson’s disease dementia”, Brain Research Bulletin, 2017; 132, 129-138.
22. Maria A. Tikhonova, Shih-Chun Ho, Anna A. Akopyan, Nataliya G. Kolosova, **Jun-Cheng Weng**, Wan-Yun Meng, Chih-Li Lin, Tamara G. Amstislavskaya*, Ying-Jui Ho*, “Neuroprotective Effects of Ceftriaxone Treatment on Cognitive and Neuronal Deficits in a Rat Model of Accelerated Senescence”, Behavioural Brain Research, 2017; 330, 8-16.
21. **Jun-Cheng Weng**, Te-Wei Kao, Guo-Joe Huang, Yeu-Sheng Tyan, Hsien-Chun Tseng, Ming-Chou Ho*, “Evaluation in Structural Connectivity Changes in Betel-quid Chewers using Generalized q-Sampling MRI”, Psychopharmacology. 2017; 234(13), 1945-1955.
20. Vincent Chin-Hung Chen, Chao-Yu Shen, Sophie Hsin-Yi Liang, Zhen-Hui Li, Ming-Hong Hsieh, Yeu-Sheng Tyan, Mong-Liang Lu, Yena Lee, Roger S. McIntyre, **Jun-Cheng Weng***, “Assessment of Brain Functional

- Connectome Alternations and Correlation with Depression and Anxiety in Major Depressive Disorders”, *PeerJ*, 2017; 5, e3147.
19. Vincent Chin-Hung Chen, Mei-Hing Ng*, Wei-Che Chiu, Roger S. McIntyre, Yena Lee, Tsang Yaw Lin, **Jun-Cheng Weng**, Pau-Chung Chen, Chung-Yao Hsu, “Effects of selective serotonin reuptake inhibitors on glaucoma: a nationwide population-based study”, *PLoS One*, 2017; 12(3), e0173005.
 18. Yeu-Sheng Tyan, Jan-Ray Liao, Chao-Yu Shen, Yu-Chieh Lin, **Jun-Cheng Weng***, “Gender Differences in the Structural Connectome of the Teenage Brain Revealed by Diffusion Tensor Imaging”, *Chung Shan Medical Journal*, 2017; 28, 17-26.
 17. Vincent Chin-Hung Chen, Chao-Yu Shen, Sophie Hsin-Yi Liang, Zhen-Hui Li, Yeu-Sheng Tyan, Yin-To Liao, Yin-Chen Huang, Yena Lee, Roger S. McIntyre, **Jun-Cheng Weng***, “Assessment of Abnormal Brain Structures and Networks in Major Depressive Disorder Using Morphometric and Connectome Analyses”, *Journal of Affective Disorders*, 2016; 205, 103-111.
 16. **Jun-Cheng Weng**, Maria A Tikhonova, Jian-Horng Chen, Mei-Shiuan Shen, Wan-Yun Meng, Yen-Ting Chang, Ke-Hsin Chen, Keng-Chen Liang, Ching-Sui Hung, Tamara G Amstislavskaya, Ying-Jui Ho*, “Ceftriaxone prevents the neurodegeneration and decreased neurogenesis seen in a Parkinson’s disease rat model: an immunohistochemical and MRI study”, *Behavioural Brain Research*, 2016; 305, 126-139.
 15. Hao-Hung Tsai, Ling-Yuh Shyu, Seong Yong Lim, Yeu-Sheng Tyan, **Jun-Cheng Weng***, “Characterizing Longitudinal Changes in Rabbit Brain Infected with *Angiostrongylus Cantonensis* based on Diffusion Anisotropy”, *Acta Tropica*, 2016; 157, 1-11.
 14. Chao-Yu Shen, Yeu-Sheng Tyan, Li-Wei Kuo, Changwei W. Wu, **Jun-Cheng Weng***, “Quantitative Evaluation in Rabbit Brain Injury after Cerebral Hemisphere Radiation Exposure using Generalized q-Sampling Imaging”, *PLoS One*, 2015; 10(7), e0133001.
 13. Yin-To Liao, Yi-Chen Lee, Nien-Che Hung, Shu-Hsin Lee, **Jun-Cheng Weng**, Vincent Chin-Hung Chen*, “Association between Attention Deficit Hyperactivity Disorder Symptoms and Bulimia among College Students”, *Taiwanese Journal of Psychiatry*, 2015; 29(2), 98-108.
 12. Seong Yong Lim, Yeu-Sheng Tyan, Yi-Ping Chao, Fang-Yu Nien, **Jun-Cheng Weng***, “New Insights into the Developing Rabbit Brain using Diffusion Tensor Tractography and Generalized q-Sampling MRI”, *PLoS One*, 2015; 10(3), e0119932.
 11. Shih-Ming Huang, Shu-Hui Peng, Jan-Yang Lin, Chao-Yu Shen, **Jun-Cheng Weng**, Yeu-Sheng Tyan, Teng-Fu Tsao, Jhih-Wei Chen*, “Improvement of the Image Quality of Black-blood Magnetic Resonance Imaging with the Subtraction Double Inversion Recovery Technique”, *Journal of Radiological Science*, 2014; 39(4), 105-110.
 10. Ling-Yuh Shyu, Hao-Hung Tsai, Han-Hsin Chang, David Pei-Cheng Lin, Yeu-Sheng Tyan, **Jun-Cheng Weng***, “An 8-week Brain MRI Follow-up Analysis of Rat Eosinophilic Meningitis Caused by *Angiostrongylus Cantonensis* Infection”, *Zoonoses and Public Health*, 2014; 61(6), 411-419.
 9. Chao-Yu Shen, Yeu-Sheng Tyan, **Jun-Cheng Weng***, “Longitudinal Anatomical and Diffusion MRI Evaluation of Rabbit Brain Injury after Cerebral Hemisphere Radiation Exposure”, *Journal of Neuroscience and Neuroengineering*, 2013; 2(4), 355-363.
 8. Ching-Yi Tsai, Chia-Hao Su, Véronique Baudrie, Dominique Laude, **Jun-Cheng Weng**, Alice Y. W. Chang, Julie Y. H. Chan, Jean-Luc Elghozi, Samuel H. H. Chan*, “Visualizing oxidative stress-induced depression of cardiac vagal baroreflex by MRI/DTI in a mouse neurogenic hypertension model”, *NeuroImage*, 2013; 15(82), 190-199.
 7. **Jun-Cheng Weng**, Kai-Hsiang Chuang*, Artem Goloshevsky, Stephen Dodd,

- Kathryn Sharer, "Mapping plasticity in the forepaw digit barrel subfield of rat brains using functional MRI", *NeuroImage*, 2011; 54(2), 1122-1129.
6. **Jun-Cheng Weng**, Sheng-Kai Wu, Win-Li Lin, Wen-Yih Isaac Tseng*, "Detecting Blood-brain Barrier Disruption within Minimal Hemorrhage Following Transcranial Focused Ultrasound: A Correlation Study with Contrast-enhanced MRI", *Magnetic Resonance in Medicine*, 2011; 65(3), 802-811.
 5. **Jun-Cheng Weng**, Sheng-Kai Wu, Feng-Yi Yang, Win-Li Lin*, Wen-Yih Isaac Tseng*, "Pulse Sequence and Timing of Contrast-enhanced MRI for Assessing Blood-brain Barrier Disruption Following Transcranial Focused Ultrasound in the Presence of Hemorrhage", *Journal of Magnetic Resonance Imaging*, 2010; 31(6), 1323-1330.
 4. Ping-Ching Wu, Chia-Hao Su, Fong-Yu Cheng, **Jun-Cheng Weng**, Jyh-Horng Chen, Tsung-Lin Tsai, Chen-Sheng Yeh, Wu-Chou Su, Jih Ru Hwu, Yonhua Tzeng, Dar-Bin Shieh*, "Modularly Assembled Magnetite Nanoparticles Enhance in Vivo Targeting for Magnetic Resonance Cancer Imaging", *Bioconjugate Chemistry*, 2008; 19(10), 1972-1979.
 3. **Jun-Cheng Weng**, Jyh-Horng Chen, Pai-Feng Yang, Wen-Yih Isaac Tseng*, "Functional Mapping of Rat Barrel Activation Following Whisker Stimulation Using Activity-Induced Manganese-Dependent Contrast", *NeuroImage*: 2007; 36(4), 1179-1188.
 2. Chia-Hao Su, Hwo-Shuenn Sheu, Chia-Yun Lin, Chih-Chia Huang, Yi-Wei Lo, Ying-Chih Pu, **Jun-Cheng Weng**, Dar-Bin Shieh, Jyh-Horng Chen*, Chen-Sheng Yeh*, "Nanoshell Magnetic Resonance Imaging Contrast Agents", *Journal of the American Chemical Society*: 2007; 129(7), 2139-2146.
 1. **Jun-Cheng Weng**, Jyh-Horng Chen, Li-Wei Kuo, Van J. Wedeen, Wen-Yih Isaac Tseng*, "Maturation-dependent microstructure length scale in the corpus callosum of fixed rat brains by magnetic resonance diffusion-diffraction", *Magnetic Resonance Imaging*: 2007; 25(1), 78-86.