

Curriculum Vitae

Jiun-I Lai, M.D., Ph.D

Current Position:

Chief Resident, Department of Oncology, Veterans General Hospital, Taipei
Adjunct assistant professor, School of Medicine, National Yang-Ming University
(starting 2018 February)

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Education

Ph.D. The Scripps Research Institute •La Jolla, CA

Ph.D. Cellular and Molecular Biology, August 2010 - February 2016

Advisor: Professor Joel M. Gottesfeld, Ph.D.

Thesis title: Transcriptional profiling in isogenic iPSC derived Friedreich's ataxia neurons

M.D. National Yang-Ming University •Taipei, Taiwan.

M.D. School of Medicine, August 1998-June 2005

Work Experience

Veterans General Hospital, Taipei, Taiwan

Chief Resident, Department of Oncology, Sep 2017 – (present)

Kinmen Hospital, Taiwan

Attending Physician, Medicine, Sep 2016 to Aug 2017

National Yang-Ming University Hospital, Taiwan

Attending Physician, Intensive Care Unit, July 2009 to July 2010

Veterans General Hospital, Taipei, Taiwan

Residency Program, Department of Internal Medicine, July 2006 to July 2009

Taiwan Board of Internal Medicine (TBIM) Certified.

R.O.C Military (Mandatory 1 year military service for Taiwanese males)

Military Doctor, 2005-200

Awards

2014 Winner & Finalist, GEN TEN award, Graduate research abstract competition. *Genetic & Engineering news*. (News link: <http://goo.gl/sdWIAQ>)

2014 Recipient, MD Contact Program. *McKinsey & Co.*

2011-2015 Predoctoral fellowship. *Friedreich's ataxia research alliance (FARA)*

2004 Medical Student Fellowship, Travel Award to Duke University, *Andrew T. Huang Medical Education Promotion Fund*

Certifications: Board of Internal Medicine (Taiwan), USMLE

Research Experience

Joel M. Gottesfeld, Ph.D. The Scripps Research Institute, La Jolla, CA

Ph.D. student, August 2010 to present

Studied the genetic disorder Friedreich's ataxia (FRDA) through the genetic correction of an induced pluripotent stem cell (iPSC) model, using the helper dependent adenoviral vector method (HdAV). Performed transcriptional profiling of isogenic FRDA iPSC derived neurons using RNA-sequencing.

Rotation student, February 2011 to May 2011

Studied the neurodegenerative disorder Spinal Muscular Atrophy (SMA) through an induced pluripotent stem cell (iPSC) model. In collaboration with Professor Reza Ghadiri, demonstrated a novel class of histone deacetylase inhibitors could be efficacious in elevating SMN protein in SMA iPSC derived neurons.

Benjamin Cravatt Ph.D. The Scripps Research Institute, La Jolla, CA

Rotation student, August 2010 to October 2010

Application of the activity based protein profiling (ABPP) technology in chemical biological investigation of human colon cancer cell lines.

Ian A. Wilson Ph.D. The Scripps Research Institute, La Jolla, CA

Rotation student, November 2010 to January 2010

Expression and purification of a recombinant antibody against human immunodeficiency virus (HIV) in HEK 293T cell lines for structural studies.

Wei-Shu Wang, M.D., Ph.D. Department of Internal Medicine. Veterans General Hospital, Taipei

Resident doctor, August 2009 to July 2010.

Investigation of correlation between the K751Q polymorphism and outcome of patients with metastatic colon adenocarcinoma. Research resulted in publication in *Cancer Science* (PMID:19432884)

Publications (all SCI indexed)

2017

1. Chang SC, Lai YC, Chen YC, Wang NK, Pan JN, Wang WS, **Lai JI**. (**Corresponding Author**) CBX3/heterochromatin protein 1 gamma is significantly upregulated in patients with non-small cell lung cancer. *Asia-Pacific Journal of Clinical Oncology*, 2017 Nov 10. doi: 10.1111/ajco.12820. [Epub ahead of print]
2. Liu CH; Tseng YF, Kao WF, Wang SH, Li LH, Chen YQ, Chiu YH, **Lai JI**, How CK, Chang WH. The Changes of Red Blood Cell Viscoelasticity and Sports Anemia in Male 24-hr Ultra-marathoners. *J Chin Med Assoc* 2017 Nov 10. pii: S1726-4901(17)30299-X. doi: 10.1016/j.jcma.2017.09.011[Epub ahead of print]
3. **Lai JI**, Lai YC, Chen YC, Wang NK, Pan JN, Wang WS, Chang SC. Clinical analysis of NSCLC patients reveals lack of association between EGFR mutation and TET1 downregulation. *Cancer Gene Ther*. 2017 Sep;24(9):373-380. doi: 10.1038/cgt.2017.26.
4. **Lai JI**, Leman LJ, Ku S, Vickers CJ, Olsen CA, Montero A, Ghadiri MR, Gottesfeld JM. Cyclic tetrapeptide HDAC inhibitors as potential therapeutics for spinal muscular atrophy: Screening with iPSC-derived neuronal cells. *Bioorg Med Chem Lett*. 2017 Aug 1;27(15):3289-3293. doi: 10.1016/j.bmcl.2017.06.027.

Before 2017

5. Chiu YH, **Lai JI**, Wang SH, How CK, Li LH, Kao WF, Yang CC, Chen RJ. Early changes of the anemia phenomenon in male 100-km ultramarathoners. *J Chin Med Assoc*. 2015 Feb;78(2):108-13.
6. Chiu YH, Chen JD, Wang SH, Tiu CM, How CK, **Lai JI**, Chou YH, Lam C, Chen RJ. Whether intravenous contrast is necessary for CT diagnosis of acute appendicitis in adult ED patients? *Acad Radiol*. 2013 Jan;20(1):73-8.
7. **Lai JI**, Lin HY, Lai YC, Lin PC, Chang SC, Tang GJ. Readmission to the intensive care unit: a population-based approach. *J Formos Med Assoc*. 2012 Sep;111(9):504-9
8. Lin HY, **Lai JI**, Lai YC, Lin PC, Chang SC, Tang GJ. Acute renal failure in severe pancreatitis: A population-based study. *Ups J Med Sci*. 2011 May;116(2):155-9 (equal contribution)
9. Lin PC, Lai YC, **Lai JI**, Hsu SY, Wang WS. Successful treatment of gallbladder neuroendocrine carcinoma with combined chemo-radiotherapy: A case report and literature review. *Int J Clin Pharmacol Ther*. 2011 Jun;49(6):403-8.

10. Lin HY, **Lai JI**, Lai YC, Lin PC, Chang SC, Tang GJ. Acute renal failure in severe pancreatitis: A population-based study. *Ups J Med Sci*. 2011 May;116(2):155-9. (equal contribution)
11. Lin PC, **Lai JI**, Tzeng CH, Wang WS. A patient of situs ambiguus with pancreatic head cancer successfully treated with gemcitabine and erlotinib. *Med Oncol*. 2011 Mar;28(1):140-50. (equal contribution)
12. **Lai JI**, Lin PC, Wang WS, Chang SC, Lai YC. Barotrauma related extensive pneumothorax, pneumomediastinum, and subcutaneous emphysema in a patient with acute respiratory distress syndrome with low tidal volume. *Postgrad Med J*. 2010 Sep;86(1019):567-8.
13. **Lai JI**, Wang WS, Lai YC, Lin PC, Chang SC. Acute interstitial pneumonitis in a patient receiving a FOLFOX-4 regimen plus cetuximab treated with pulse therapy. *Int J Clin Pharmacol Ther*. 2010 Jul;48(7):425-8.
14. **Lai JI**, Tzeng CH, Chen PM, Lin JK, Lin TC, Chen WS, Jiang JK, Wang HS, Wang WS. Very low prevalence of XPD K751Q polymorphism and its association with XPD expression and outcomes of FOLFOX-4 treatment in Asian patients with colorectal carcinoma. *Cancer Sci*. 2009 Jul;100(7):1261-6.
15. **Lai JI**, Wei-Shu Wang. Acute hemolysis after receiving oxaliplatin treatment; A case report and literature review. *Pharm World Sci* 2009 Oct;31(5):538-41.