

Liang-ting LIN
(Assistant Professor)



QUALIFICATIONS:

PD fellow (Taipei Veterans General Hospital/Taiwan), 2014-2016
PhD (Biomedical Imaging and Radiological Sciences), National Yang-Ming University, 2014
BSc (Medical Radiology and Technology), National Yang-Ming University, 2008
Licensed Radiation Technologist (Taiwan), 2008
Licensed Operator of Radioactive Materials and Instruments (Taiwan), 2012

BRIEF OUTLINE OF EXPERIENCE AND POSTS HELD:

Apr. 2017 – present **Assistant Professor**, Department of Health Technology and Informatics (HTI), The Hong Kong Polytechnic University (PolyU), Hong Kong

2014-2016 **Post-doctoral fellow**, Taipei Veterans General hospital

RESEARCH INTERESTS:

- Radiation-induced long non-coding RNA in epigenetic modification
- Photoacoustic imaging and theranostic strategy
- Cell-to-cell communication via extracellular vesicles (EVs)
- Molecular imaging of biological events

SERVICE TO PROFESSIONAL & SCIENTIFIC BODIES, CONSULTANCY, MEMBERSHIP OF PROFESSIONAL & LEARNED SOCIETIES:

2019- Member of American Society for Radiation Oncology (ASTRO)

2018- Member of Society of Nuclear Medicine and Molecular Imaging (SNMMI)

2017- Faculty Member of the FHSS, The Hong Kong Polytechnic University

2016- Member of International Society of Stem Cell Research (ISSCR)

- 2014- Ad hoc Reviewer for *Oncotarget*, *Scientific Reports*, and *Journal of Cancer Research and Clinical Oncology*
- 2010- Member of American Association for Cancer Research (AACR)
- 2009- Member of World Molecular Imaging Society (WMIS)

POST-GRADUATE RESEARCH STUDENTS:

- Mr. Mohammady Akbor (PhD student, 2017-)
- Ms. Xian Liu (PhD student, 2020-)

GRANTS AND FUNDS:

1. Early Career Scheme, Research Grant Council (2020-2022; 25103719)
2. Shenzhen Basic Research Funding Scheme (2018-2020; JCYJ20170818103614207)

AWARDS:

- 2021 **Departmental Teaching Award**, Department of Health Technology and Informatics, The Hong Kong Polytechnic University, Hong Kong
- 2014 **Young Investigator Award**, Annual Meeting of Taiwanese Society Molecular Imaging, Taipei, Taiwan
- 2011 **Poster Award**, 2011 Annual Meeting of Society of Nuclear Medicine, San Antonio, TX, USA

PUBLICATIONS AND CONFERENCE PAPERS:

- Xian Liu, Ju-Yu Chen, Yueh Chien, Yi-Ping Tang, Ming-The Chen, **Liang-Ting Lin*** Overview of the Molecular Mechanisms of Migration and Invasion in Glioblastoma Multiforme, (2021, Jul) *Journal of the Chinese Medical Association* 2021;84(7):669-677
- Sze Wah Fong, Bosco Wang Fung Liu, Chun Lok Sin, King Sang Lee, Tsun Ming Wong, Ka Sin Choi, Yi-Ping Yang, Yi-Ying Lin, Yueh Chien, Yih-Wen Tarng, Cheng-Fong Chen, **Liang-Ting Lin*** A systematic review of the methodology of sonographic assessment of upper limb activities-associated carpal tunnel syndrome, (2021, Feb) *Journal of the Chinese Medical Association* 2021;84(2):212-220.
- Cheng-Han Tsai, Chun-Yuan Chang, Bing-Ze Lin, Yu-Lou Wu, Meng-Hsiu Wu, **Liang-Ting Lin**, Wen-Chien Huang, Jonathan D. Holz, Tzong-Jen Sheu, Jih-Shian Lee, Richard N. Kitsis, Pei-Han Tai and Yi-Jang Lee. Up-regulation of cofilin-1 in cell senescence associates with morphological change and p27kip1-mediated growth delay. (2020, Nov), *Ageing Cell*, 20: e13288.
- Sin-Guang Chen, Ju-Yu Chen, Yi-Ping Yang, Chian-Shui Chien, Mong-Lien Wang, **Liang-Ting Lin***. Use of radiographic features in covid-19 diagnosis: Challenges and perspectives. (2020, Apr) *Journal of the Chinese Medical Association* 2020; **83**, 644-647
- Hsiao-Yun Chen, Mong-Lien Wang, Benoit Laurent, Chih-Hung Hsu, Ming-Teh Chen, **Liang-Ting Lin**, Jia Shen, Wei-Chao Chang, Jennifer Hsu, Mien-Chie Hung, Yi-Wei Chen, Pin-I Huang, Yi-Ping Yang, Chung-Pin Li, Hsin-I Ma, Chung-Hsuan Chen, Wen-Chang Lin, Shih-Hwa Chiou, Musashi-1 promotes stress-induced tumor progression through recruitment of AGO2, (2020 Jan) *Theranostics*, **10** (2020) 201-217.
- Mohammady Akbor, Kai-Feng Hung, Yi-Ping Yang, Shih-Jie Chou, Ping-Hsing Tsai, Chian-Shiu Chien, **Liang-Ting Lin*** Immunotherapy orchestrates radiotherapy in

- composing abscopal effects: A strategic review in metastatic head and neck cancer. (2019, Dec) *Journal of the Chinese Medical Association* 2019; **83**, 113-116,
- Chun-Yuan Chang, Shi-Long Chang, Jyh-Der Leu, Yu-Chan Chang, Michael Hsiao, **Liang-Ting Lin**, Han-Nan Lin and Yi-Jang Lee. Comparison of cofilin-1 and Twist-1 protein expression in human non-small cell lung cancer tissues. (2019, Jun.) *Oncology Reports* 2019;45:805-816
 - **Liang-Ting Lin**, Shin-Yi Liu, Jyh-Der Leu, Chun-Yuan Chang, Shih-Hwa Chiou, Te-Chang Lee, Yi-Jang Lee. Arsenic trioxide-mediated suppression of miR-182-5p is associated with potent anti-oxidant effects through up-regulation of SESN2. (2018, Mar.) *Oncotarget* 2018;9:16028-42
 - Hsiao-Yun Chen*, **Liang-Ting Lin***, Mong-Lien Wang, Kun-Ling Tsai, Pin-I Huang, Yi-Ping Yang, Yi-Yen Lee, Yi-Wei Chen, Wen-Liang Lo, Yuan-Tzu Lan, Shih-Hwa Chiou, Chien-Min Lin, Hsin-I Ma, Ming-Teh Chen, (2018, Feb.) Musashi-1 promotes chemoresistant granule formation by PKR/eIF2alpha signalling cascade in refractory glioblastoma. *Biochim Biophys Acta*, 2018. 1864(5 Pt A): p. 1850-1861.
 - Hsiao-Yun Chen*, **Liang-Ting Lin***, Mong-Lien Wang, Benoit Laurent, Chih-Hung Hsu, Chih-Ming Pan, Wan-Ru Jiang, Pau-Yuan Chen, Hsin-I Ma, Yi-Wei Chen, Pin-I Huang, Arthur Chiou, Shih-Hwa Chiou (2017, Aug.) Musashi-1 Enhances Glioblastoma Cell Migration and Cytoskeletal Dynamics through Translational Inhibition of Tensin3. *Scientific Reports*. 2017. 7(1): p. 8710.
 - Tzu-Wei Lin, Ming-Teh Chen, **Liang-Ting Lin**, Pin-I Huang, Wen-Liang Lo, Yi-Ping Yang, Kai-Hsi Lu, Yi-Wei Chen, Shih-Hwa Chiou and Cheng-Wen Wu (2017, May). TDP-43/HDAC6 axis promoted tumor progression and regulated nutrient deprivation-induced autophagy in glioblastoma. *Oncotarget*. 8(34): p. 56612-56625.
 - **Liang-Ting Lin***, Chun-Yuan Chang, Chi-Hsien Chang, Hsin-Ell Wang, Shih-Hwa Chiou, Ren-Shyan Liu, Te-Wei Lee, Yi-Jang Lee (2016, Aug). Involvement of let-7 microRNA for the therapeutic effects of Rhenium-188–embedded liposomal nanoparticles on orthotopic human head and neck cancer model. *Oncotarget*. 4;7(40):65782-65796.
 - **Liang-Ting Lin***, Chih-Hsien Chang, Hsiang-Lin Yu, Ren-Shyan Liu, Hsin-Ell Wang, Shu-Jun Chiu, Fu-Du Chen, Te-Wei Lee, Yi-Jang Lee (2014, Sep). Evaluation of the therapeutic and diagnostic effects of PEGylated liposomes embedded rhenium-188 on human non-small cell lung cancer using the small animal model. *Journal of Nuclear Medicine*, 55(11): 1864-1870.
 - Hsiao-Yun Chen, **Liang-Ting Lin**, Mong-Lien Wang, Shu-Hsien Lee, Ming-Long Tsai, Chi-Chang Tsai, Wei-Hsiu Liu, Tzu-Chien Chen, Yi-Ping Yang, Yi-Yen Lee, Yuh-Lih Chang, Pin-I Huang, Yi-Wei Chen, Wen-Liang Lo, Shih-Hwa Chiou, Ming-Teh Chen (2016, Jul). Musashi-1 regulates AKT-derived IL-6 autocrinal/paracrine malignancy and chemoresistance in glioblastoma. *Oncotarget*. 5;7(27):42485-42501.
 - Yao-An Shen, Keng-Li Lan, Chih-Hsien Chang, **Liang-Ting Lin**, Chun-Lin He, Po-Hung Chen, Te-Wei Lee, Yi-Jang Lee, Chi-Mu Chuang (2016, May). Intraperitoneal (188)Re-Liposome delivery switches ovarian cancer metabolism from glycolysis to oxidative phosphorylation and effectively controls ovarian tumour growth in mice. *Radiotherapy and Oncology*, 119(2): 282-290.
 - Han-Wen Guo, **Liang-Ting Lin**, Po-Hsiung Chen, Meng-Huan Ho, Wan-Ting Huang, Yi-Jang Lee, Shih-Hwa Chiou, Yei-San Hsieh, Chen-Yuan Dong, Hsing-Wen Wang (2015, Apr). Low-fluence rate, long duration photodynamic therapy in glioma mouse model using organic light emitting diode (OLED). *Photodiagnosis and Photodynamic Therapy*. 12(3): 504-510.
 - Cheng-Han Tsai, **Liang-Ting Lin**, Chung-Yih Wang, Yu-Wen Chiu, Yen-Ting Chou, Shu-Jun Chiu, Hsin-Ell Wang, Ren-Shyan Liu, Chun-Yi Wu, Pei-Chia Chan, Muh-Hwa Yang, Shih-Hwa Chiou, Man-Jyun Liao, Yi-Jang Lee (2015, Jan). Over-expression of cofilin-1 suppressed growth and invasion of cancer cells is associated with up-regulation of let-7 microRNA. *Biochimica et Biophysica Acta Molecular Basis of Disease*. 1852(5): 851-861.
 - Ying-Ling Chen, Chung-Yih Wang, Feng-Yi Yang, Bo-Sheng Wang, **Liang-Ting Lin**, Fu-Du Chen, Shu-Jun Chiu, Jason Y. Chen, Wei R. Chen, Yi-Jang Lee (2014, Apr). Synergistic effects of the immunoadjuvant glycosylated chitosan with high-intensity focused ultrasound on suppression of metastases in a syngeneic breast tumor model. *Cell Death and Disease*. 5: e1178.

- **Liang-Ting Lin***, Bo-Sheng Wang, Jyh-Cheng Chen, Chi-Hsien Liu, Chien Chou, Shu-Jun Chiu, Wen-Yi Chang, Ren-Shyan Liu, C. Allen Chang, Yi-Jang Lee (2013, Dec). mPlum-IFP 1.4 fluorescent fusion protein may display Förster resonance energy transfer associated properties that can be used for near infrared based reporter gene imaging. *Journal of Biomedical Optics*, 18(12):126013.
- **Liang-Ting Lin***, Shih-Hwa Chiou, Te-Wei Lee, Ren-Shyan Liu, Jeng-Jong Hwang, Chih-Hsien Chang, Hsin-I Ma, Yi-Jang Lee (2013, Jun). A Comparative Study of Primary and Recurrent Human Glioblastoma Multiforme Using the Small Animal Imaging and Molecular Expressive Profiles. *Molecular Imaging and Biology*, 15(3):262-72.
- Ying-Ling Chen, Shiau-Yi Wang, Ren-Shyan Liu, Hsin-El Wang, Jyh-Cheng Chen, Shih-Hwa Chiou, C.Allen Chang, **Liang-Ting Lin**, Yi-Jang Lee (2012, Oct). Remnant living cells that escape cell loss in late-stage tumors exhibit cancer stem cell-like characteristics. *Cell Death & Disease*, 3,e399.

Conference papers

- **2019 Annual Meeting of Society of Nuclear Medicine and Molecular Imaging (Anaheim, CA, USA)**
Image-guided treatment planning of a radiolabeled gold nanostar-mediated photothermal therapy of ovarian cancer (Poster)
- **2019 The 34th Joint Annual Conference of Biomedical Science (Taipei, Taiwan)**
Establishment of Photoacoustic Imaging Platform for Real-time Image-guided Photothermal Therapy using Gold Nanostars (Poster)
- **2019 Annual Meeting of American Association for Cancer Research (Atlanta, GA, USA)**
Exosome-mediated EGR1 transportation controls the radiation-induced abscopal effect in head and neck cancer (Poster)
- **2018 International Symposium on New Frontiers in Nano-Bio-Electronic Convergence Science and Technology (ISNBE) (Seoul, Republic of Korea)**
Monitoring of Exosomal Intercommunication in Radiotherapy-associated Abscopal Effect (Oral)
- **2016 Annual Meeting of International Society of Stem Cell Research (San Francisco, CA, USA)**
Rhenium-188 Radiopharmaceutical Represses in vivo Growth and Stem Cell Properties of HNSCC Cancer Stem Cells via let-7-associated Signaling Pathway (Poster)
- **2014 Annual Meeting of Taiwanese Society of Molecular Imaging (Taipei, Taiwan)** Therapeutic Efficacy and Tumor Suppressive Profiling of 188Re-liposome Treated Human Head and Neck Squamous Cell Carcinoma (Oral)
- **2014 Annual Meeting of American Association for Cancer Research (San Diego, CA, USA)** Study of the tumor suppressive machinery of arsenic trioxide-induced glioblastoma multiforme inhibition via microRNA-182-Sestrin2 regulatory circuit (Poster)
- **2013 Annual Meeting of Society of Nuclear Medicine (Savannah, GA, USA)** Tumor suppressive profiling in Rhenium-188 embedded PEGylated liposome treated NSCLC animal model (Poster)
- **2011 Annual Meeting of Society of Nuclear Medicine (San Antonio, TX, USA)**, Study of Glioblastoma Multiforme Metastatic and Invasive Mechanism by Polycistronic Imaging Probe in Orthotopic Implanted Animal Model (Poster Award, Oral)
- **2010 Annual Meeting of American Association for Cancer Research (Washington DC, DC, USA)**, Study of glioblastoma stem cell-like cancer stem cells on tumorigenesis and recurrence by multiple imaging modalities (Poster)
- **2009 World Molecular Imaging Congress (Montreal, QC, Canada)**, Foamy virus as a safe tool for gene delivery in application of molecular imaging (Poster)