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**Education :**

Ph.D., Department of Biomedical Engineering and Environmental Science, National Tsing Hua University.

M.D., Department of Atomic Science, National Tsing Hua University.

B.S., Department of Agricultural Chemistry, National Taiwan University.

**Career Experience :**

1. Professor: Department of Medical Imaging and Radiological Science, Central Taiwan University of Science and Technology (2013.08 ~ Present).

2. Associate professor: Department of Medical Imaging and Radiological Science, Central Taiwan University of Science and Technology (1994.08 ~ 2012.01).

**Courses Taught :**

Radiochemistry 、 Radiation Safety 、 Radiation Protection Regulations Practice 、 General Chemistry

**Professional Fields :** Radiochemistry 、 Radiation application

**Research Interests :** Radiation dosimeter 、 Radiation application

**Publications : (Publication in 6 Years)**

1. Jen-I Hwang, Tzu-Chin Yang, Tsung-Chieh Huang, Ling-Ling Hsieh\* (2021) Comparison of Gel Dosimeters and EBT3 Film to Evaluate the Dose Verification of Clinical Radiotherapy. Taiwanese Journal of Applied Radiation and Isotopes, 17(1), 2053-2060.
2. Ying-Hsiang Chou, Yu-Chan Lu, Shin-Lei Peng, Shan-Chih Leea, Ling-Ling Hsieh\*, Cheng-Ting Shih\* (2020) Evaluation of the dose distribution of tomotherapy using polymer gel dosimeters and optical computed tomography with ring artifact correction. Radiation Physics and Chemistry, 168, 108572. (SCI) (Co-corresponding author)
3. Hsueh-Dar Shy, Tsung-Chieh Huang, Tian-Yu Shih\*, Ling-Ling Hsieh\* (2018) Study of Dose Distribution Verification for Radiation Therapy : Optimal Readout Time of Imaging Modalities for Post-irradiated Gel Dosimeters. Journal of Taiwan Medical Radiation Technology, 6(2), 8-16.
4. Ling-Ling Hsieh, Jiunn-I Shieh, Li-Ju Wei, Yi-Chun Wang, Kai-Yuan Cheng, Cheng-Ting Shih (2017) Polymer gel dosimeters for pretreatment radiotherapy verification using the three-dimensional gamma evaluation and pass rate maps. Physica Medica, 37:75-81. (SCI)
5. Cheng K-Y<sup>†</sup>, Hsieh L-L<sup>†</sup>, Shih C-T (2016) A Comprehensive Evaluation of NIPAM Polymer Gel Dosimeters on Three Orthogonal Planes and Temporal Stability Analysis. PLoS ONE 11(5):e0155797. doi:10.1371/journal.pone.0155797. (SCI) (Co-first author)
6. Kai-Yuan Cheng, Sih-Ying Chen, Jiunn-I Shieh, Yi-Ying Wu, Ling-Ling Hsieh\* (2016) A novel polymer gel-loading phantom for magnetic resonance imaging. Arab J Sci Eng, 41:163-167. (SCI)