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Citizenship: Taiwan

Director (April 2021 - present)

Division of Oral and Maxillofacial Surgery, Department of Dentistry,
Taipei Municipal Wanfang Hospital

Attending physician (Jan. 2002 - present)

Division of Oral and Maxillofacial Surgery, Department of Dentistry,
Taipei Medical University Hospital
Taipei, Taiwan



Research interests

Biostatistics with R/Python/C++ for survival analyses and deep learning, biomedical informatics; cancer research in vitro and in vivo; mindfulness meditation, laser acupuncture; forensic medicine.

Education

Taipei Medical University and Academia Sinica Taipei, Taiwan
The Ph.D. Program for Translational Medicine Feb. 2013 – Feb. 2022
Mentors: Professors Yu-Chuan (Jack) Li, Michael Hsiao, Alex T.H Wu.

Taipei Medical University Taipei, Taiwan
MS in Biomedical Informatics Sep. 2011 – Jan. 2013
Mentor: Professor Yu-Chuan (Jack) Li.

Taipei Medical University Taipei, Taiwan
BS in Dentistry Sep. 1988 – Jun. 1994

Honors and award

Best Paper Presentation Award - 3rd Prize, at Translational Medicine Program Retreat (Academia Sinica, Taiwan) 2017

Presentation

A Transcriptomic Analysis of Head and Neck Squamous Cell Carcinomas for Prognostic Indications Sep. 10, 2021

The 8th Annual Academic Achievements Presentation of Translation Medicine Degree Program

Global Proteomics-based Identification and Validation of Thymosin Beta-4 X-Linked as a Prognostic Marker for Head and Neck Squamous Cell Carcinoma Sep. 6, 2017

The 4th Translational Medicine Program Retreat, Taipei, Taiwan.

Silencing JARID1B Suppresses Oncogenicity, Stemness and Increases Radiation Sensitivity in Head and Neck Squamous Cell Carcinoma Sep. 4, 2015

The 2nd Annual Retreat of the Translational Medicine Degree Program, Kaohsiung, Taiwan.

Glucose Transporter 4, encoded by gene SLC2A4, as a Prognostic Marker for Head and Neck Squamous Cell Carcinoma Sep. 19, 2014
The 1st Annual Retreat of the Translational Medicine Degree Program, Taipei, Taiwan.

A Summary of International Partnership for Health Informatics Education 2012
IPHIE2012 Master class training of Health Informatics, University Of Minnesota, Twin Cities, MN, U.S.A.

Recurrent Ameloblastic Carcinoma ex Ameloblastoma of Maxilla - A case report June 2005
ICOMS – 17th International Conference on Oral and Maxillofacial Surgery, Vienna, Austria.

Skills

Programming
Proficient in: R, Python/PyTorch.
Familiar with: Matlab, SAS, C++.

Languages
Chinese, English (fluent)

Service and outreach by TMU

Royal Health Mission in the Kingdom of Eswatini, southern Africa Sep. 2014 – Sep. 2019
attending physician working at the Manzana Clinic.

Missão Médica de Taiwan em São Tomé e Príncipe, west Africa Nov. 2010 – Jan. 2012
attending physician working at hospital central em São Tomé e Príncipe.

Taiwan Medical Mission in the Kingdom of Swaziland, southern Africa
May 2009 – Nov. 2010
attending physician working at the Mbabane Government Hospital.

Professional memberships

Taiwanese Association of Oral and Maxillofacial Surgeons (TAOMS)
Jan. 2002 – Present
Taiwan Society of Forensic Medicine (TSFM) 2022-
Taiwan Biophysics Society 2014-

References

Dr. Bou-yue Peng, D.D.S., M.S.

Director

Oral and Maxillofacial Surgery, Department of Dentistry, Taipei Medical University Hospital, Taipei, Taiwan

E-mail: peng@tmu.edu.tw

Professor Yu-Chuan Jack Li, M.D., Ph.D.

Professor

Professional Master Program for Artificial Intelligence in Medicine, Taipei Medical University, Taipei, Taiwan

E-mail: jack@tmu.edu.tw

Professor Michael Hsiao, D.V.M., Ph.D.

Research Fellow

Genomics Research Center, Academia Sinica, Taipei, Taiwan

E-mail: mhsiao@gate.sinica.edu.tw

Dr. Alex T.H Wu, Ph.D.

Associate Professor

Graduate Program in Translational Medicine, College of Medical Science and Technology, Taipei Medical University, Taipei, Taiwan

E-mail: chaw1211@tmu.edu.tw

Publications

- [1] **Chi, Li-Hsing**, “Global Transcriptomics and Proteomics Analyses for Biomarker Identification and Validation in Head and Neck Squamous Cell Carcinoma,” English, Ph.D. dissertation, Taipei Medical University, 2022, p. 252. [Online]. Available: <https://drive.google.com/file/d/1zEFFFdQo9sMqDRoS6C-jYIt4vOgDyF9d/view?usp=sharing>.
- [2] **Chi, Li-Hsing**, A. T. Wu, M. Hsiao, and Y.-C. C. J. Li, “A Transcriptomic Analysis of Head and Neck Squamous Cell Carcinomas for Prognostic Indications,” *Journal of Personalized Medicine*, vol. 11, no. 8, p. 782, Aug. 2021, ISSN: 2075-4426. DOI: [10.3390/jpm11080782](https://doi.org/10.3390/jpm11080782). [Online]. Available: <https://www.mdpi.com/2075-4426/11/8/782>.
- [3] **Chi, Li-Hsing**, A. T. H. Wu, M. Hsiao, and Y.-C. J. Li, “A Global Genome-Wide Scan with Optimal Cutoff Mining for Emerging Biomarkers in Head and Neck Squamous Cell Carcinoma,” *Research Square [Preprint Server]*, 2020, ISSN: 2693-5015. DOI: [10.21203/rs.3.rs-80673/v1](https://doi.org/10.21203/rs.3.rs-80673/v1). [Online]. Available: <https://doi.org/10.21203/rs.3.rs-80673/v1>.
- [4] Y.-C. Chang, **Chi, Li-Hsing**, W.-M. Chang, C.-Y. Su, Y.-F. Lin, C.-L. Chen, M.-H. Chen, P. M.-H. Chang, A. T. H. Wu, and M. Hsiao, “Glucose transporter 4 promotes head and neck squamous cell carcinoma metastasis through the TRIM24-DDX58 axis,” *eng, Journal of Hematology & Oncology*, vol. 10, no. 1, p. 11, Dec. 2017, ISSN: 1756-8722. DOI: [10.1186/s13045-016-0372-0](https://doi.org/10.1186/s13045-016-0372-0).

- [Online]. Available: <http://jhoonline.biomedcentral.com/articles/10.1186/s13045-016-0372-0>.
- [5] **Chi, Li-Hsing**, W.-M. Chang, Y.-C. Chang, Y.-C. Chan, C.-C. Tai, K.-W. Leung, C.-L. Chen, A. T. Wu, T.-C. Lai, Y.-C. Li, and M. Hsiao, "Global Proteomics-based Identification and Validation of Thymosin Beta-4 X-Linked as a Prognostic Marker for Head and Neck Squamous Cell Carcinoma," *Scientific Reports*, vol. 7, no. 1, p. 9031, Dec. 2017, ISSN: 2045-2322. DOI: [10.1038/s41598-017-09539-w](https://doi.org/10.1038/s41598-017-09539-w). [Online]. Available: <http://www.nature.com/articles/s41598-017-09539-w%20http://rdcu.be/vb1R>.
 - [6] Y.-C. Chan, C.-W. Chen, M.-H. Chan, Y.-C. Chang, W.-M. Chang, **Chi, Li-Hsing**, H.-M. Yu, Y.-F. Lin, D. P. Tsai, R.-S. Liu, and M. Hsiao, "MMP2-sensing up-conversion nanoparticle for fluorescence biosensing in head and neck cancer cells," eng, *Biosensors & bioelectronics*, vol. 80, pp. 131–139, Jun. 2016, ISSN: 1873-4235 (Electronic). DOI: [10.1016/j.bios.2016.01.049](https://doi.org/10.1016/j.bios.2016.01.049).
 - [7] W.-M. W.-M. Chang, Y.-F. Y.-F. Lin, C.-Y. C.-Y. Su, H.-Y. H.-Y. H.-Y. Peng, Y.-C. Chang, T.-C. T.-C. Lai, G.-H. G.-H. G.-H. Wu, Y.-M. Y.-M. Hsu, **Chi, Li-Hsing**, J.-R. J.-R. Hsiao, C.-L. C.-L. Chen, J.-Y. J.-Y. Chang, Y.-S. Shieh, M. Hsiao, and S.-G. S.-G. Shiah, "Dysregulation of RUNX2/activin-A axis upon miR-376c downregulation promotes lymph node metastasis in head and neck squamous cell carcinoma," eng, *Cancer Research*, vol. 76, no. 24, pp. 7140–7150, Dec. 2016, ISSN: 1538-7445 (Electronic). DOI: [10.1158/0008-5472.CAN-16-1188](https://doi.org/10.1158/0008-5472.CAN-16-1188).
 - [8] C.-Y. Su, Y.-P. Liu, C.-J. Yang, Y.-F. Lin, J. Chiou, **Chi, Li-Hsing**, J.-J. Lee, A. T. H. Wu, P.-J. Lu, M.-S. Huang, and M. Hsiao, "Plasminogen Activator Inhibitor-2 Plays a Leading Prognostic Role among Protease Families in Non-Small Cell Lung Cancer," eng, *PloS one*, vol. 10, no. 7, e0133411, 2015, ISSN: 1932-6203 (Electronic). DOI: [10.1371/journal.pone.0133411](https://doi.org/10.1371/journal.pone.0133411).
 - [9] C. Fan, Y. Chang, C. Hsu, C. Liao, Y. Huang, **Chi, Li-Hsing**, and Â. S. da Costa, "Lymphatic Elephantiasis in One Neglected African Country-Democratic Republic of Sao Tome e Principe," *Tropical Medicine & Surgery*, vol. 1, no. 2, 2013. DOI: [10.4172/2329-9088.1000108](https://doi.org/10.4172/2329-9088.1000108).
 - [10] C.-K. Fan, L.-W. Lee, C.-W. Liao, Y.-C. Huang, Y.-L. Lee, Y.-T. Chang, A. d. S. R. J. da Costa, V. Gil, **Chi, Li-Hsing**, T. Nara, A. Tsubouchi, and O. P. Akinwale, "Toxoplasma gondii infection: relationship between seroprevalence and risk factors among primary schoolchildren in the capital areas of Democratic Republic of Sao Tome and Principe, West Africa.," eng, *Parasites & vectors*, vol. 5, p. 141, Jul. 2012, ISSN: 1756-3305 (Electronic). DOI: [10.1186/1756-3305-5-141](https://doi.org/10.1186/1756-3305-5-141).
 - [11] W.-S. Jian, M.-H. Hsu, H. Sukati, S. Syed-Abdul, J. Scholl, N. Dube, C.-K. Hsu, T.-j. Wu, V. Lin, **Chi, Li-Hsing**, P. Chang, and Y.-C. Li, "LabPush: a pilot study of providing remote clinics with laboratory results via short message service (SMS) in Swaziland, Africa," eng, *PloS one*, vol. 7, no. 9, C. Shiff, Ed., e44462, Sep. 2012, ISSN: 1932-6203 (Electronic). DOI: [10.1371/journal.pone.0044462](https://doi.org/10.1371/journal.pone.0044462). [Online]. Available: <http://dx.plos.org/10.1371/journal.pone.0044462>.
 - [12] H.-C. C. Cheng, **Chi, Li-Hsing**, J.-Y. Y. Wu, T.-T. T. Hsieh, and B.-Y. Y. Peng, "Blindness and basal ganglia hypoxia as a complication of Le Fort I osteotomy attributable to hypoplasia of the internal carotid artery: a case report," eng, *Oral surgery, oral medicine, oral pathology, oral radiology, and endodontics*, vol. 104, no. 1, e27–33, Jul. 2007, ISSN: 1528-395X (Electronic). DOI: [10.1016/j.tripleo.2007.01.016](https://doi.org/10.1016/j.tripleo.2007.01.016).

- [13] J.-Y. Wu, **Chi, Li-Hsing**, B.-Y. Peng, and Y.-H. Lin, "Maxillary Ameloblastic Carcinoma—A Case Report," *Journal of Chinese Oral and Maxillofacial Surgery*, vol. 18, no. 2, pp. 131–140, 2007. DOI: [10.7104/CJOMS.200203.0026](https://doi.org/10.7104/CJOMS.200203.0026). [Online]. Available: <https://www.airitilibrary.com/Publication/alDetailedMesh?DocID=a0000021-200709-18-2-131-140-a%7D>.
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- [15] **Chi, Li-Hsing**, Y.-H. Li, T.-K. Liu, and B.-Y. Peng, "Squamous Cell Carcinoma Metastasized to Cervical Lymph Nodes from an Occult Oral Primary - A case Report," *Journal of Chinese Oral and Maxillofacial Surgery*, vol. 13, no. 1, pp. 26–39, 2002. DOI: [10.7104/CJOMS.200203.0026](https://doi.org/10.7104/CJOMS.200203.0026).