

Assistant Prof. Yu-Tien Chang

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Personal Website:

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Education & Training

- Graduate Institute of Medical Sciences, National Defense Medical Center, 2013-2017
- Graduate Institute of Public Health, National Defense Medical Center, 2009-2011

Current & Previous Appointments

- Assistant Professor of School of Public Health, National Defense Medical Center, 2021-present

Research interests

Public health, Big data analysis, bioinformatics, oncology biomarkers (Breast cancer, colorectal cancer),

Selected Research Grant**Principle Investigator**

- Developing a Psoriasis Risk Prediction Model Combining Medical, Nutritional and Environmental Factors: Applications of Epidemiology and Deep Learning, 2022-2025
- Application of artificial intelligence in anomaly detection and bleeding warning in minimally invasive surgery for colorectal cancer, 2023
- Using AI Machine Learning to Search for Gene Markers Related to Drug Sensitivity and Establish a Personalized Drug-Assisted Recommendation System - Taking Bladder Cancer as an Example, 2023
- Exploring the role of novel gene, IGLC2, in immunotherapy sensitivity and prognosis for triple-negative breast cancer, 2023
- Exploring novel genes for the prediction of prognosis and drug sensitivity for renal cancers -ANLN (Anillin Actin Binding Protein),2023
- Precision Medicine Biomarkers in Taiwanese Patients with Rheumatoid Arthritis using Genome Wide Association Analysis, 2023

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Selected Publications

- Wei-Zhi Lin, Yen-Chun Liu, Meng-Chang Lee, Chi-Tun Tang, Gwo-Jang Wu*, **Yu-Tien Chang***, Chi-Ming Chu* & Chia-Yang Shiau*. From GWAS to drug screening: repurposing antipsychotics for glioblastoma. *J Transl Med* 20, 70 (2022). <https://doi.org/10.1186/s12967-021-03209-2> (IF:8.459, rank: CATEGORY MEDICINE, RESEARCH & EXPERIMENTAL 21/195)
- Yi-Chun Liu, Shih-Hung Chiang, Chung-Yu Lai, Li-Chen Yen, Fang-Yih Liaw, Ming-Han Lin, Fu-Gong Lin, Ching-Huang Lai, Senyeong Kao, **Yu-Tien Chang**, Chia-Chao Wu and Yu-Lung Chiu. Factors influencing smoking cessation counselors' intention to stay: An application of a conceptual model of intention to stay verified with path analysis. *Frontiers in Public Health*. 2022 Sep;10.3389/fpubh.2022.932213 (IF: 6.46, PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH 18/182)
- Lin HC, Shui HA, Huang KY, Lin WZ, Chang HY, Lee HJ, Lin YC, Huang YS, Chen GR, Yang YT, Liu HL, Wu YS, Cheng CS, Ko CL, **Chang YT**, Lee JC, Lin CS, Wang CH, Chu CM. Innovative Hybrid-Alignment Annotation Method for Bioinformatics Identification and Functional Verification of a Novel Nitric Oxide Synthase in *Trichomonas vaginalis*. *Biology (Basel)*. 2022 Aug 12;11(8):1210. doi: 10.3390/biology11081210. PMID: 36009837; PMCID: PMC9404748. (IF:5.168, BIOLOGY 25/113=78.32% Q1)
- Chang YC, Lee DJ, Wei CH, Pa CH, Chen CC, Chen HC, **Chang YT**, Wang HE, Chu P, Lu KC, Wu CC. SARS-CoV-2 versus other minor viral infection on kidney injury in asymptomatic and mildly symptomatic patients. *Virulence*. 2022 Dec;13(1):1349-1357. doi: 10.1080/21505594.2022.2107602. PMID: 35924838; PMCID: PMC9354764.(IF:5.428, Ranking: IMMUNOLOGY 57/177=68.08% Q2)
- **Yu-Tien Chang**, Wen-Chiuan Tsai, Wei-Zhi Lin, Chia-Chao Wu, Jyh-Cherng Yu, Vincent S Tseng, Guo-Shiou Liao*, Je-Ming Hu*, Huan-Ming Hsu*, Yu-Jia Chang*, Meng-Chiung Lin*, Chi-Ming Chu*, Chien-Yi Yang*. A Novel IGLC2 Gene Linked with Prognosis of Triple-Negative Breast Cancer, *Frontiers in Oncology*. 2022,11,759952. (IF=6.244, R/C=62/242,ONCOLOGY)

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- Chia-Shiang Cheng, Yi-Jen Huang, Chien-An Sun, Chi An, **Yu-Tien Chang***, Chi-Ming Chu*, and Chi-Wen Chang. Gender-Specific Determinants of eHealth Literacy: Results from an Adolescent Internet Behavior Survey in Taiwan. International Journal of Environmental Research and Public Health, 2022, 19(2), 664. (IF=3.390, R/C=42/176,PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH)
- Yi - Syuan Wu, Wang Wei-yun, Ta-Chien Chan, Yu-Lung Chiu, Hung-Che Lin, **Yu Tien Chang**, Hao-Yi Wu, Tzu-Chi Liu, Chien-An Sun, Je-Ming Hu, Yuan-Kuei Li, Chao-Wen Chen, Hao-Yun Kao, Chia-Cheng Lee, Chih-Hung Wang, Chi-Ming Chu. Effect of the Nintendo Ring Fit Adventure Exergame on Running Completion Time and Psychological Factors among University Students Engaging in Distance Learning during the COVID-19 Pandemic: A Randomized Prospective Study. JMIR Serious Games, 2022, 22;10(1):e35040. (IF:3.364,HEALTH CARE SCIENCES & SERVICES 44/109=60.09% Q2)
- Yen-Sung Huang, Chang-Han Lo, Ping-Huang Tsai, Yi-Chou Hou, **Yu-Tien Chang**, Cheng-Yi Guo, Hsin-Yi Hsieh, Kuo-Cheng Lu, Hsiu-Ming Shih, Chia-Chao Wu. Downregulation of AANAT by c-Fos in tubular epithelial cells with membranous nephropathy. Biochemical and Biophysical Research Communications, 2021;584:32-8. (SCI, IF:3.575, BIOPHYSICS26/76=66.45% Q2)

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- Jiu-Haw Yin, Giia-Sheun Peng, Kang-Hua Chen, Chi-Ming Chu, Wu-Chien Chien¹⁰, Li-Ting Kao, Chia-Chao Wu, Chih-Wei Yang, Wen-Chiuan Tsai, Wei-Zhi Lin, Yi-Syuan Wu, Hung-Che Lin and **Yu-Tien Chang***. Long-Term Use of Statins Lowering the Risk of Rehospitalization Caused by Ischemic Stroke Among Middle-Aged Hyperlipidemic Patients: A Population-Based Study. *Frontiers in Pharmacology*, 2021;12:741094 (IF:5.988, PHARMACOLOGY & PHARMACY 46/361=87.4% Q1)
- Chia-Chao Wu, Han-En Wang, Yi-Chun Liu, Cai-Mei Zheng, Pauling Chu, Kuo-Cheng Lu, Chi-Ming Chu and **Yu-Tien Chang***. Sleeping, Smoking, and Kidney Diseases: Evidence From the NHANES 2017-2018. *Frontiers in Medicine (Lausanne)*. 2021;8:745006. (SCI, IF:5.091, MEDICINE, GENERAL & INTERNAL 63/329, 81% Q1)
- Yi-Chun Liu, Li-Chen Yen , Fang-Yih Liaw, Ming-Han Lin, Shih-Hung Chiang, Fu-Gong Lin, Ching-Huang Lai, Senyeong Kao, **Yu-Tien Chang**, Chia-Chao Wu and Yu-Lung Chiu. Gender Differences in the Extended Theory of Planned Behaviour on Smoking Cessation Intention in Young Soldiers. *International Journal of Environmental Research and Public Health*, 2021;18:7834.
doi: 10.3390/ijerph18157834. (SCI, IF:3.39, Rank:41/176 Q2)
- Yuan-Kuei Li, Huan-Ming Hsu, Meng-Chiung Lin, Chi-Wen Chang, Chi-Ming Chu, Yu-Jia Chang, Jyh-Cherng Yu, Chien-Ting Chen, Chen-En Jian, Chien-An Sun, Kang-Hua Chen, Ming-Hao Kuo, Chia-Shiang Cheng, Ya-Ting Chang, Yi-Syuan Wu, Hao-Yi Wu, Ya-Ting Yang, Chen Lin, Hung-Che Lin, Je-Ming Hu, **Yu-Tien Chang***. Genetic co-expression networks contribute to creating predictive model and exploring novel biomarkers for the prognosis of breast cancer. *Scientific Reports*. 2021;11(1):7268. (SCI, IF:4.996, MULTIDISCIPLINARY SCIENCES 19/134 Q1)

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- Wen-Hsun Tsai, Yi-Syuan Wu, Chia-Shiang Cheng, Ming-Hao Kuo, **Yu-Tien Chang**, Fu-Kang Hu, Chien-An Sun, Chi-Wen Chang, Ta-Chien Chan, Chao-Wen Chen, Chia-Cheng Lee, Chi-Ming Chu. A Technology Acceptance Model for Deploying Masks to Combat the COVID-19 Pandemic in Taiwan (My Health Bank): Web-Based Cross-sectional Survey Study. *Journal of Medical Internet Research* 23, e27069 (2021). (SCI, Rank:10/108=0.09 IF:5.428)
- PoJen Hsiao, Chih-Chien Chiu, Ke-Hsin Lin, Fu-Kang Hu, Pei-Jan Tsai, Chun-Ting Wu, Yuan-Kai Pang, Yu Lin, Ming-Hao Kuo, Kang-Hua Chen, Yi-Syuan Wu, Hao-Yi Wu, Ya-Ting Chang, **Yu-Tien Chang**, Chia-Shiang Cheng, Chih-Pin Chuu, Fu-Huang Lin, Chi-Wen Chang, Yuan-Kuei Li Sr, Jenq-Shyong Chan, Chi-Ming Chu (2020) Usability of Wearable Devices With a Novel Cardiac Force Index for Estimating the Dynamic Cardiac Function: Observational Study. *Journal of Medical Internet Research. JMIR Mhealth Uhealth.* 2020;8(7):e15331.(SCI, IF:7.093, HEALTH CARE SCIENCES & SERVICES 11/159 Q1)
- Huan-Ming Hsu, Chi-Ming Chu, Yu-Jia Chang, Jyh-Cherng Yu, Chien-Ting Chen, Chen-En Jian, Chia-Yi Lee, Yueh-Tao Chiang, Chi-Wen Chang, **Yu-Tien Chang*** (2019) Six novel immunoglobulin genes as biomarkers for better prognosis in triple-negative breast cancer by gene co-expression network analysis. *Scientific Reports.* 2019 Mar 14;9(1):4484 (SCI, Rank:17/71=0.24 IF:4.576)