


Cancer and Obesity Research Lab

Principal Investigator:

**Yu-Chieh Su M.D./ Jian-Han Chen M.D./ Sheng-Fung Lin M.D./
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 **Yu-Chieh Su Director/ Dept. of Cancer Center, E-Da Hospital**

Educations:

School	Department	Degree
Kaohsiung Medical University	Graduate Institute of Clinical Medicine	Master
Kaohsiung Medical College	School of medicine	Bachelor

Academic Experiences:

Department	Position	Duration
Dept. of Cancer Center, E-Da Hospital	Director	2020/01 ~ present
Dept. of Hematology & Oncology, E-Da Hospital	Director	2022/08 ~ present
Dept. of Hematology & Oncology, Kaohsiung Municipal Siaogang Hospital	Attending Physicians	2019/08 ~ 2019/10
Dept. of Hematology & Oncology, Kaohsiung Medical University Chung-Ho Memorial	Director	2018/08 ~ 2019/07

Hospital		
School of Medicine for International Students, College of Medicine, I-Shou University	Associate Professor	2016/09 ~ 2018/08
Dept. of Hematology & Oncology, E-Da Hospital	Director	2016/06 ~ 2018/08
School of Medicine, Tzu Chi University	Associate Professor	2014/02 ~ 2016/05
Tumor Center, Buddhiat Dalin Tzu Chi general Hospital	Director	2008/12 ~ 2016/05
Dept. of Hematology & Oncology, Buddhiat Dalin Tzu Chi general Hospital	Attending Physicians	2002/08 ~ 2016/05
Dept. of Hematology & Oncology, Kaohsiung Medical University Chung-Ho Memorial Hospital	Attending Physicians	2000/08 ~ 2002/07

Academic expertise:

1. Cancer Molecular Biology study
2. Blood Lymphoma research
3. Study on Hematopoietic Stem Cells

 **Jian-Han Chen** Director/ Bariatric and Metabolic Surgery Center, E-Da Hospital

Educations:

School	Department	Degree
Tzu Chi University	School of medicine	Bachelor

Academic Experiences:

Department	Position	Duration
Bariatric and Metabolic Surgery Center, E-Da Hospital	Director	2020/01~ present
Department of General Surgery, E-Da Hospital	Attending Physicians	2016/12~ present
Bariatric and Metabolic Surgery Center, E-Da Hospital	Vice director	2019/01~2019/12

Bariatric and Metabolic Surgery Center, E-Da Hospital	Attending Physicians	2016/12~2018/12
Department of General Surgery, Buddhiat Dalin Tzu Chi general Hospital	Attending Physicians	2013/10~2016/11

Academic expertise:

1. Laparoscopic metabolic and bariatric surgery
2. Laparoscopic hepatobiliary and gastrointestinal cancer surgery
3. Laparoscopic hernioplasty
4. Taiwan's National Health Insurance database research

Lab Introduction:

1. Role of small molecule target drug in lymphocytic leukemia.
2. Head and neck cancer radiation sensitization mechanism and drug reaction explore.
3. Relation between successful weight loss after Laparoscopic sleeve gastrectomy and gut hormone, immune function, and fat metabolism.
4. Association of visceral fat distribution, microbiota, fat metabolism, metal status and various organ disease after Bariatric and Metabolic Surgery.

Team Members:

1. Li-Wen Fang Ph.D. 、Pai-Mei Lin Ph.D.
2. Research Assistants: Hung-Ju Li 、Yu-Ren Zhuang 、Wei Chang Lee

Techniques & Equipments:

1. General purpose equipments:
Microcentrifuge 、dry bath 、Magnetic stirrer 、Vortex 、orbital and rocking shakers
Balance
2. Sample storage devices:
4°C, -20°C, -80°C refrigerators, and liquid nitrogen tank
3. Frequently used techniques:
Cell and tissue culture 、Cell-based assays 、RT-PCR 、qPCR 、Western blotting
Flow cytometry 、ELISA 、Paraffin block sectioning 、Immunohistochemistry

Research Projects:

	Project titles	PI	Source	Duration
1	Evaluation of targeted drug-resistant lymphoma cells with combined treatment of cell cycle inhibitors and targeted drugs (EDAHP111015)	Su YC	E-Da Hospital	2022/02/01 ~ 2023/01/31
2	Evaluation of radiation-resistant head and neck cancer cells with combined treatment of cell cycle inhibitors and radiation (EDAHP111011)	Su YC (Co PI)	E-Da Hospital	2022/02/01 ~ 2023/01/31
3	To evaluate the effects of herbal medicine compounds acting on the PI3K/Akt/mTOR pathway on the inhibition and radiosensitization of head and neck squamous cell carcinoma (EDCHP111009)	Lin HC	E-Da Cancer Hospital	2022/02/01 ~ 2023/01/31
4	The radiosensitization and mechanism of andrographolide on head and neck squamous cell carcinoma (EDCHC111001)	Lin YH	E-Da Cancer Hospital	2022/02/01 ~ 2023/01/31
5	Open AI pathology platform with integrated collaborations (1/2) (MOST 110-2634-F-006-022-)	Su YC (Co PI)	MOST	2021/11/01 ~ 2022/10/31
6	Mechanism of PI3K inhibitor BKM120 and anti-inflammatory molecule 5-MTP on primary cultured head and neck cancer cells (EDAHP-110045)	Su YC	E-Da Hospital	2021/01/01 ~ 2021/12/31
7	Association between change of gut microbiota and various organ disease after bariatric and metabolic surgery (EDAHI-110003)	Chen JH (Co PI)	E-Da Hospital	2021/01/01 ~ 2021/12/31
8	Artificial intelligence (AI) applied to image analysis of bone marrow cells (EDAHP-110021)	Lin SF	E-Da Hospital	2021/01/01 ~ 2021/12/31
9	The combination effects of LEE011 and chemotherapy drugs in L1210 cells (EDCHC-110001)	Lin YC	E-Da Cancer Hospital	2021/01/01 ~ 2021/12/31
10	Effect of mTOR inhibitor RAD001 on the differentiation of megakaryocytes of cord blood stem cells (EDAHC-110003)	Chiu LC	E-Da Hospital	2021/01/01 ~ 2021/12/31
11	Cell cycle inhibition for radioresistant head and neck cancer (MOST 109-2314-B-650-015)	Su YC	MOST	2020/08/01 ~ 2012/07/31
12	Association of visceral fat distribution and	Chen JH	E-Da Hospital	2020/01/01 ~ 2020/12/31

	various organ disease after Bariatric and Metabolic Surgery (EDAHP-110045)			
13	The potential of Lox-1 as a surface marker for immunosuppressive neutrophils in head and neck cancer (MOST 108-2314-B-650-003-MY2)	Su YC (Co PI)	MOST	2019/08/01 ~ 2021/07/31

Selected Publications (2019~present):

(Annotations: # Co-1st author; *Corresponding author)

- Po-Jui Chi, Kun-Ta Wu, Po-Jen Chen, Chung-Yen Chen, Yu-Chieh Su, Chung-Yi Yang, **Jian-Han Chen***. The serial changes of Neutrophile-Lymphocyte Ratio and correlation to weight loss after Laparoscopic Sleeve Gastrectomy. *Frontiers in Surgery* 2022, 9:939857.
- I-Sung Chen, Ming-Shian Tsai, **Jian-Han Chen**, Chung-Yen Chen, I-Lin Chen, Chi-Ming Tai*. The utility of intraoperative endoscopy to assist novice surgeons in the detection of gastric stenosis during laparoscopic sleeve gastrectomy. *BMC Surgery* 2022, 22(1):323.
- Shang-Wei Lin, **Jian-Han Chen***. Leser-Trélat sign. *British Journal of Surgery* 2022, znac169.
- Chih-I Chen, Fu-Cheng Chuang, Hung-Ju Li, Yu-Chi Chen, Hsin-Pao Chen, Kuang-Wen Liu, **Yu-Chieh Su**, **Jian-Han Chen**, Hui-Ming Lee*. The impact of a multispecialty operative team on colorectal cancer surgery: A retrospective study from a would-be medical center in Taiwan. *Medicine (Baltimore)* 2022, 101(31):e29863.
- Yu-Chieh Su**, Chih-Chun Wang, Jui-Hsi Weng, Shyh-An Yeh, Po-Jen Chen, Tzer-Zen Hwang, Huang-Chi Chen*. 5-Methoxytryptophan Sensitizing Head and Neck Squamous Carcinoma Cell to Cisplatin Through Inhibiting Signal Transducer and Activator of Transcription 3 (STAT3). *Frontiers in Oncology* 2022, 12:834941.
- Pin-Chun Chen, Yuan-Chi Lee, **Yu-Chieh Su**, Cheng-Hung Lee, **Jian-Han Chen***, Chung-Yen Chen. Does hepatectomy improve outcomes of breast cancer with liver metastasis? A nationwide analysis of real-world data in Taiwan. *PLoS One* 2022, 17(4): e0266960.
- Chun-Han Su, Pau-Choo Chung, Sheng-Fung Lin, Hung-Wen Tsai, Tsung-Lung Yang, **Yu-Chieh Su***. Multi-Scale Attention Convolutional Network for Masson Stained Bile Duct Segmentation from Liver Pathology Images. *Sensors* 2022, 22(7): 2679.
- Yu-Chieh Su**, Brian Chih-Hung Chiu, Hung-Ju Li, Wen-Chi Yang, Tsai-Yun Chen, Su-Peng Yeh, Ming-Chung Wang, Wen-Tsung Huang, Ming-Yang Lee, Sheng-Fung Lin*. Investigation of the incidence trend of follicular lymphoma from 2008 to 2017 in Taiwan

- and the United States using population-based data. *PLoS One* 2022, 17(3): e0265543.
9. Ching-Fang Wu, Tzu-Ting Hung, **Yu-Chieh Su**, Po-Jen Chen, Kuei-Hung Lai, Chih-Chun Wang*. Endoplasmic Reticulum Stress of Oral Squamous Cell Carcinoma Induces Immunosuppression of Neutrophils. *Frontiers in Oncology* 2022, 12:818192.
 10. Hun-Ju Yu, Liang-Chun Chiu, **Yu-Chieh Su**, Chao-Ping Wang, Tzer-Zen Hwang, Pang-Yu Lai, Chih-Chun Wang*. Waldenström's macroglobulinemia presenting as refractory recurrent epistaxis with bilateral sudden vision loss: a case report. *E-DA Medical Journal* 2022, 9(1): 20-25.
 11. Hao-Han Chang, Yung-Shun Juan, Ching-Chia Li, Hsiang-Ying Lee*, **Jian-Han Chen***. Congenital collagenopathies increased the risk of inguinal hernia developing and repair: analysis from a nationwide population-based cohort study. *Scientific Report* 2022, 12(1):2360.
 12. Zhiwei Liu*, Yomani D. Sarathkumara, John K. C. Chan, Yok-Lam Kwong, Tai Hing Lam, Dennis Kai Ming Ip, Brian C.-H. Chiu, Jun Xu, **Yu-Chieh Su**, Carla Proietti, Martha M. Cooper, Kelly J. Yu, Bryan Bassig, Raymond Liang, Wei Hu, Bu-Tian Ji, Anna E. Coghill, Ruth M. Pfeiffer, Allan Hildesheim, Nathaniel Rothman, Denise L. Doolan, Qing Lan. Characterization of the humoral immune response to the EBV proteome in extranodal NK/T-cell lymphoma. *Scientific Reports* 2021; 11, 23664.
 13. **Jian-Han Chen***, Hui-Ming Lee, Chung-Yen Chen, Ying-Chen Chen, Chia-Chen Lin, Ching-Yi Su, Cheng-Fei Tsai, Wan-Ling Tu. 6M50LSG Scoring System Increased the Proportion of Adequate Excess Body Weight Loss for Suspected Poor Responders After Laparoscopic Sleeve Gastrectomy in Asian Population. *Obesity surgery* 2021, 32(2):398-405.
 14. Hsien-Lin Chen#, **Yu-Chieh Su**#, Huang-Chi Chen, Jui-Hsin Su, Chang-Yi Wu, Shih-Wei Wang, In-Pin Lin, Chung-Yi Chen, Chien-Hsing Lee*. Heteronemin Suppresses Lymphangiogenesis through ARF-1 and MMP-9/VE-Cadherin/Vimentin. *Biomedicine* 2021; 9(9):1109.
 15. Wei Hung, Tsung-Heng Tsai, **Jian-Han Chen***. A case report of delayed lower intestinal bleeding after organophosphate poisoning. *BMC Gastroenterology* 2021, 21(1):1-4.
 16. Wei-Leng Chin, Po-Jui Chi, Wei-Chieh Hung, Chi-Wei Lin, Chung-Yen Chen, **Jian-Han Chen***. Bariatric surgery decreases the risk of non-traffic accident-related fractures in patients with obesity: real-world data from Taiwan. *Obes Surg.* 2021; 31:2231-2240.
 17. Shao-Ang Chu, Te-Yuan Chen, Po-Yuan Chen, Wei-Jie Tzeng, Cheng-Loong Liang, Kang Lu, Han-Jung Chen, Cheng-Chun Wu, **Jian-Han Chen***, Chin-Chuan Tsai*, Hao-Kuang Wang*. Acupuncture may decrease the incidence of post-stroke dementia: a Taiwan nationwide retrospective cohort study. *Frontiers in Neurology* 2021; 12:840.
 18. Yi-Kai Kao, Hung-Yu Lin, Chih-I Chen, **Yu-Chieh Su**, **Jian-Han Chen***. The bariatric surgery is associated with a lower incidence of malignancy: real world data from Taiwan.

- Obes Surg.* 2021;1-9.
19. Fu-Cheng Chuang, Chih-Chun Wang, Jian-Han Chen, Tzer-Zen Hwang, Shyh-An Yeh, **Yu-Chieh Su***. PI3k inhibitors (BKM120 and BYL719) as radiosensitizers for head and neck squamous cell carcinoma during radiotherapy. *PLoS One* 2021/01; 16(1): e0245715.
 20. **Jian-Han Chen***, Yu-Feng Wei, Chung-Yen Chen, **Yu-Chieh Su**, Robert Shan Fon Tsai, Wei-Leng Chin, Ho-Shen Lee. Decreased long-term respiratory infection risk after bariatric surgery: a comprehensive national cohort study. *Obes Surg.* 2021; 31(2):499-507.
 21. Wei Leng Chin, Po-Jui Chi, Wei-Chieh Hung, Chi-Wei Lin, Chung-Yen Chen, **Jian-Han Chen***. Bariatric surgery decreases the risk of non-traffic accident-related fractures in patients with obesity: real-world data from Taiwan. *Obesity surgery* 2021, 31(5):2231-2240.
 22. Meng-Fan Hsieh, **Jian-Han Chen***, **Yu-Chieh Su**, Chung-Yen Chen, Cheng-Hung Lee. The increasing possibility of pregnancy postbariatric surgery: a comprehensive national cohort study in Asian population. *Obes Surg.* 2021; 31(3): 1022-1029.
 23. Shao-Lun Hung, Chung-Yen Chen, Wei-Leng Chin, Cheng-Hung Lee, **Jian-Han Chen***. The long-term risk of cardiovascular events in patients following bariatric surgery compared to a non-surgical population with obesity and the general population: a comprehensive national cohort study. *Langenbeck's Arch Surg.* 2021; 406(1):189-196.
 24. Tien-Yu Chen, Chien-Ting Liu, Chi-Hsiang Chung, Shao-Lun Hung, Wu-Chien Chien, **Jian-Han Chen***. Bariatric surgery may provide better protection than uvulopalatopharyngoplasty against major adverse cardiovascular events in obese patients with obstructive sleep apnea. *Surg Obes Relat Dis.* 2021; 17(4):780-791.
 25. Shih-I Tseng, Ching-Chia Li, Hsiang-Ying Lee*, **Jian-Han Chen***. Previous unilateral inguinal hernia repair increase risk of new developed inguinal hernia: a nationwide Longitudinal Cohort Study in Asian male adult patients. *Surg Endosc.* 2021:1-6.
 26. Pai-Mei Lin, Hui-Ming Lee, Chung-I Huang, Tzong-Shyuan Tai, Jian-Han Chen, Chih-I Chen, **Yu-Chieh Su***. Synergistic Antiproliferative Effect of Ribociclib (LEE011) and 5-Fluorouracil on Human Colorectal Cancer. *Anticancer Research* 2020/11; 40(11): 6265-6271.
 27. Chung-Yen Chen, Cheng-Hung Lee, Hui-Ming Lee, Wen-Yao Yin, Wei-Leng Chin, Ming-Hsien Lee, **Jian-Han Chen***. Check point to get adequate weight loss within 6-months after laparoscopic sleeve gastrectomy for morbid obesity in Asian population. *Sci Rep.* 2020; 10(1):1-9.
 28. Pang-Yu Lai, Chih-Chun Wang, Chih-I Chen, Shyh-An Yeh, Wen-Chi Yang, Sheng-Fung Lin, **Yu-Chieh Su***. The Relationship between Blood Transfusion and the Occurrence of Lymphoma: A National Population-Based Dataset Analysis. *E-Da Medical Journal* 2020/07; 7(2): 1-6

29. **Yu-Chieh Su**, Yi-Fang Huang, Yu-Wen Wu, Hui-Feng Chen, Yu-Hsuan Wu, Chia-Chun Hsu, Yao-Chin Hsu*, Jin-Ching Lee*. MicroRNA-155 inhibits dengue virus replication by inducing heme oxygenase-1- mediated antiviral interferon responses. *FASEB J.* 2020; 34(6):7283-7294.
30. Chih-Chun Wang, Ching-Chieh Yang, Shyh-An Yeh, Chung-I Huang, Tzer-Zen Hwang, Chuan-Chien Yang, **Yu-Chieh Su***. The Impact of Insurance and Marital Status on Survival in Patients with Nasopharyngeal Carcinoma. *Biology* 2020; 9 (4), 84.
31. Guo-Wang Lin, Caigang Xu, Kexin Chen et al. (**Yu-Chieh Su** as one of co-authors) Genetic risk of extranodal natural killer T-cell lymphoma: a genome-wide association study in multiple populations. *Lancet Oncology* 2020 Feb; 21(2):306-316.
32. Yu-Tin Hsiao, Wen-Chi Yang, Sheng-Fung Lin, **Yu-Chieh Su***. Very late relapse of plasma cell myeloma after allogeneic hematopoietic stem cell transplantation: a case report. *Journal of Cancer Research and Practice* 2020; 7(1):38-40.
33. Szu-Chin Li, Ching-Chih Lee, Chin-Mu Hsu, Hsien-Bin Huang, **Yu-Chieh Su** *. IL-6 induces haptoglobin expression through activating STAT3 in human head and neck cancer. *J Oral Pathol Med.* 2020; 49 (1), 49-54.
34. Yi-Chieh Chen, Ling-Chiao Song, Hsin-Pao Chen, Kuang-Wen Liu, **Jian-Han Chen**, Chih-I Chen. Readmission risk of colonic diverticulitis after conservative treatment: a 10-year comprehensive national cohort study. 中華民國大腸直腸外科醫學會雜誌 2020;31(2):91-100.
35. Yi-Kai Kao and **Jian-Han Chen***. Adult Jejunum-jejunal intussusception due to inflammatory fibroid polyp: A case report and literature review. *Medicine* 2020; 99(36):e22080.
36. Chung-I Huang, Chih-Chun Wang, Tzong-Shyuan Tai, Tzer-Zen Hwang, Chuan-Chien Yang, Chin-Mu Hsu, **Yu-Chieh Su***. eIF4E and 4EBP1 are prognostic markers of head and neck squamous cell carcinoma recurrence after definitive surgery and adjuvant radiotherapy. *PLoS One* 2019 14 (11), e0225537.
37. Hui-Fen Liao, You-Zhu Lin, Chih-Chia Yu, Tzong-Shyuan Tai, Shih-Kai Hung, Ching-Chieh Yang, **Yu-Chieh Su***. mTORC1/2 Inhibitor Served as a More Ideal Agent Against the Growth of Mouse Lymphocytic Leukemia Both *In Vitro* and *In Vivo*. *Anticancer Res.* 2019 Sep;39(9):4829-4835.
38. **Jian-Han Chen**, Ming-Shian Tsai, Chung-Yen Chen, Hui-Ming Lee, Chi-Fu Cheng, Yu-Ting Chiu, Wen-Yao Yin*, Cheng-Hung Lee*. Bariatric surgery did not increase the risk of gallstone disease in obese patients: a comprehensive cohort study. *Obes Surg.* 2019; 29(2):464-73.
39. Victor C. Kok, Yu-Ching Chen, Yang-Yuan Chen, **Yu-Chieh Su**, Ming-Chang Ku, Jung-Tsung Kuo, Go J. Yoshida. Sorafenib with Transarterial Chemoembolization Achieves Improved Survival vs. Sorafenib Alone in Advanced Hepatocellular Carcinoma:

- A Nationwide Population-Based Cohort Study. *Cancers* 2019, 11(7), 985.
40. Ming-Chun Chen[#], Jian-Han Chen[#], Yun Chen, Ya-Hui Tsai, Cheng-Hung Lee. Low and decreased prevalence of congenital abdominal wall defect in Taiwan. *J Pediatr Surg.* 2019; 54(9):1958-1964.
 41. HP Lee, CC Lee, **Yu-Chieh Su**, Decision tree and prediction model for hypopharyngeal cancer survival. *B-ENT* 2019 (2nd trimester), 93-100.
 42. Ching-Chieh Yang, Li-Chin Cheng, Yu-Wei Lin, Shih-Chang Wang, Te-Min Ke, Chung-I Huang, **Yu-Chieh Su***, Ming-Hong Tai*. The impact of marital status on survival in patients with surgically treated colon cancer. *Medicine (Baltimore)* 2019 Mar; 98(11):e14856.
 43. Tzong-Shyuan Tai, Pai-Mei Lin, Ching-Fang Wu, Shih-Kai Hung, Chung-I Huang, Chih-Chun Wang, **Yu-Chieh Su***. CDK4/6 Inhibitor LEE011 Is a Potential Radiation-sensitizer in Head and Neck Squamous Cell Carcinoma: An *In Vitro* Study. *Anticancer Res.* 2019 Feb; 39(2):713-720.
 44. Ching-Chieh Yang, **Yu-Chieh Su**, Yu-Wei Lin, Chung-I Huang, Ching-Chih Lee. Differential impact of age on survival in head and neck cancer according to classic Cox regression and decision tree analysis. *Clin Otolaryngol* 2019 May;44(3):244-253.