

Gastroenterology & Hepatology Laboratory

Lab. Introduction:

Recent research advances in digestive have shed light on important diseases such as viral hepatitis, helicobacter infection, and barrett esophagus. To enhance the knowledge flow from basic developmental biology to clinical medicine, the Gastroenterology & Hepatology Laboratory was established. This lab hopefully could serve as an interactive platform where by gastroenterologists, and basic scientists clinical medicine meets basic science. At the present time, three categories of research topics are included in our on-going projects:

1. Translational clinical course of chronic viral hepatitis in medical research.
2. Methylation of esophageal cancer.
3. Upper gastrointestinal squamous epithelial cells of tumor markers of carcinogenesis and diverted.

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Yao-Chun Hsu

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➤ **Educations:**

M.S., Kaohsiung Medical University Graduate Institute of Clinical Medicine

Team Members:

➤ **Assistants:**

- Ying-Ju Lee, M. Sc. (2012~ present)
- Shu-Ting Wu, M. Sc. (2015~ present)
- Chia-Chen Ho, M. Sc. (2017~ present)
- Yi-Wen Lin, M. Sc. (2018~ present)
- Yi-Ting Liu, M. Sc. (2020~ present)

Techniques & Equipments:

- Cell & tissue culture:
 - (1) Laminar flow
 - (2) CO₂ incubator
 - (3) Inverted phase contrast microscope
 - (4) Vacuum suction pump
- Molecular biology:
 - (1) Polymerase chain reaction cycler
 - (2) Devices for protein electrophoresis (including power supply, vertical electrophoretic and electrotransferring sets)
 - (3) Devices for nucleic acid (including power supply and horizontal electrophoretic)
 - (4) Tank
- General purpose equipments:
 - (1) Low temperature centrifuge
 - (2) Microcentrifuge
 - (3) Digital dry bath
 - (4) Thermostatic water bath
 - (5) Vortex, orbital and rocking shakers
 - (6) Balance
- Sample storage devices:
 - 4°C, -20°C, -80°C refrigerators, and liquid nitrogen tank (35 L)
- Frequently used techniques:
 - (1) Cell culture
 - (2) Cell-based assays
 - (3) RT-PCR
 - (4) Western blotting
 - (5) ELISA

Research Projects:

Project titles	PI	Source	Duration
Virological change and clinical impact after cessation of tenofovir alafenamide (TAF) among chronic hepatitis virus B infected patients.	Tseng CH	E-Da Cancer Hospital	2021.01.01~2021.12.31
Changes in Serum Levels of Hepatitis B Core-related Antigen and Hepatitis B Virus RNA as Compared with Hepatitis B Surface Antigen in Patients with or without	Wu YL	E-Da Hospital	2021.01.01~2021.12.31

Selected Publications

Wen-Lun Wang

(Chief, Division of Digestive Endoscopy, E-DA hospital)

1. M. Everson, L. Herrera, Hsiu-Po Wang, Ching-Tai Lee, Chen-Shuan Chung, Ping-Hsin Hsieh, Chien-Chuan Chen, Cheng-Hao Tseng, Ming-Hung Hsu, T. Vercauteren, S. Ourselin, S. Kashin, R. Bisschops, O. Pech, L. Lovat, **Wen-Lun Wang*** (Co-Corresponding author), R J Haidry. A clinically interpretable convolutional neural network for the real time prediction of early squamous cell cancer of the esophagus; comparing diagnostic performance with a panel of expert European and Asian endoscopists. *Gastrointestinal endoscopy* 2021; 94:273-281.
2. Ming-Hung Hsu, **Wen-Lun Wang*** (Co-Corresponding author), Tzu-Haw Chen, Chi-Ming Tai, Hsiu-Po Wang, Ching-Tai Lee. Long-term outcomes of endoscopic submucosal dissection for superficial esophageal squamous cell carcinoma in Taiwan. *BMC Gastroenterol.* 2021; 21:308.
3. Jen-Hao Yeh , Cheng-Hao Tseng , Ru-Yi Huang , Chih-Wen Lin , Ching-Tai Lee , Po-Jen Hsiao , Tsung-Chin Wu, Liang-Tseng Kuo, **Wen-Lun Wang*** (Corresponding author). Long-term Outcomes of Primary Endoscopic Resection vs Surgery for T1 Colorectal Cancer: A Systematic Review and Meta-analysis. *Clin Gastroenterol Hepatol* 2020; 18(12):2813-2823
4. Jen-Hao Yeh, Ru-Yi Huang, Ching-Tai Lee, Chih-Wen Lin, Ming-Hung Hsu, Tsung-Chin Wu, Po-Jen Hsiao, **Wen-Lun Wang*** (Corresponding author). Long-term outcomes of endoscopic submucosal dissection and comparison to surgery for superficial esophageal squamous cancer: a systematic review and meta-analysis. *Ther Adv Gastroenterol* 2020; 13: 1–14
5. **Wen-Lun Wang**, I-Wei Chang, Ming-Hung Hsu, Tzu-Haw Chen, Chao-Ming Tseng , Cheng-Hao Tseng, Chi-Ming Tai, Hsiu-Po Wang, Ching-Tai Lee. Risk factors and pathological characteristics for intraductal tumor spread of submucosal gland in early esophageal squamous cell neoplasia. *Scientific Reports* 2020; 10(1):6860
6. Tseng CM, Wang HH, Lee CT, Tai CM, Tseng CH, Chen CC, Tsai YN, Chen TH, Hsu MH, Wang CC, Hwang TZ, Wang HP, **Wang WL*** (Corresponding author). A nationwide population-based study to assess the risk of metachronous esophageal cancers in head and neck cancer survivors. *Scientific Reports* 2020;10(1):884

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1. Hsu WF, Tsai PC, Chen CY, Tseng KC, Lai HC, Kuo HT, Hung CH, Tung SY, Wang JH, Chen JJ, Lee PL, Chien RN, Lin CY, Yang CC, Lo GH, **Tai CM**, Lin CW, Kao JH, Liu CJ, Liu CH, Yan SL, Bair MJ, Su WW, Chu CH, Chen CJ, Lo CC, Cheng PN, Chiu YC, Wang CC, Cheng JS, Tsai WL, Lin HC, Huang YH, Huang JF, Dai CY, Chuang WL, Yu ML, Peng CY. [Hepatitis C virus eradication decreases the risks of liver cirrhosis and cirrhosis-related complications \(Taiwanese chronic hepatitis C cohort\)](#). J Gastroenterol Hepatol. 2021 May 7. doi: 10.1111/jgh.15538. [Epub ahead of print] (SCI)
2. Chen WH, Chen IS, Chen TH, Hsu MH, Tsai YN, **Tai CM** (correspondence). Endoscopic balloon dilation for gastrojejunal anastomotic stricture after Roux-en-Y gastric bypass: a case series. Advances in Digestive Medicine 2021(Accepted).
3. Hsieh MH, Bair MJ, Tsai PC, Tseng KC, Lo CC, Chen CY, Kuo HT, Hung CH, Lai HC, Peng CY, Wang JH, Chen JJ, Lee PL, Chien RN, Yang CC, Lo GH, Kao JH, Liu CJ, Liu CH, Yan SL, Lin CY, Su WW, Chu CH, Chen CJ, Tung SY, **Tai CM**, Lin CW, Cheng PN, Chiu YC, Wang CC, Cheng JS, Tsai WL, Lin HC, Huang YH, Yeh ML, Huang CF, Huang JF, Dai CY, Yu ML, Chuang WL; T-COACH investigators. [Long-term risk of end-stage renal diseases with maintenance dialysis among chronic hepatitis C patients after antiviral therapy in Taiwan](#). J Gastroenterol Hepatol. 2021 Feb 24. doi: 10.1111/jgh.15469. [Epub ahead of print] (SCI)
4. Chen CY, Huang CF, Cheng PN, Tseng KC, Lo CC, Kuo HT, Huang YH, **Tai CM**, Peng CY, Bair MJ, Chen CH, Yeh ML, Lin CL, Lin CY, Lee PL, Chong LW, Hung CH, Huang JF, Yang CC, Hu JT, Lin CW, Chen CT, Wang CC, Su WW, Hsieh TY, Lin CL, Tsai WL, Lee TH, Chen GY, Wang SJ, Chang CC, Mo LR, Yang SS, Wu WC, Huang CS, Hsiung CK, Kao CN, Tsai PC, Liu CH, Lee MH, Liu CJ, Dai CY, Kao JH, Chuang WL, Lin HC, Yu ML. [Factors associated with treatment failure of direct-acting antivirals for chronic hepatitis C: A real-world nationwide hepatitis C virus registry programme in Taiwan](#). Liver Int. 2021 ;41(6):1265-1277 (SCI)
5. Hsu YC, Chen CY, Chang IW, Chang CY, Wu CY, Lee TY, Wu MS, Bair MJ, Chen JJ, Chen CC, Tseng CH, **Tai CM**, Huang YT, Ku WH, Mo LR, Lin JT. [Once-daily tenofovir disoproxil fumarate in treatment-naive Taiwanese patients with chronic hepatitis B and minimally raised alanine aminotransferase \(TORCH-B\): a multicentre, double-blind, placebo-controlled, parallel-group, randomised trial](#). Lancet Infect Dis. 2021;21(6):823-833. (SCI)
6. Tseng CM, Wang HH, Wang WL, Lee CT, **Tai CM**, Tseng CH, Chen CC, Tsai YN, Sun MS, Hsu YC. Prognostic impact of diabetes mellitus on overall survival in a nationwide population-based cohort of patients with pancreatic cancer. Endocr Pract. 2020;26(7):707-713. (SCI)

7. Tsai PC, Chen CY, Kuo HT, Hung CH, Tseng KC, Lai HC, Peng CY, Wang JH, Chen JJ, Lee PL, Chien RN, Yang CC, Lo GH, Kao JH, Liu CJ, Liu CH, Yan SL, Bair MJ, Lin CY, Su WW, Chu CH, Chen CJ, Tung SY, **Tai CM**, Lin CW, Lo CC, Cheng PN, Chiu YC, Wang CC, Cheng JS, Tsai WL, Lin HC, Huang YH, Yeh ML, Huang CF, Hsieh MH, Huang JF, Dai CY, Chung WL, Ke CK, Yu ML. Successful Antiviral Therapy Reduces Risk of Schizophrenia Among Chronic Hepatitis C Patients: A Nationwide Real-World Taiwanese Cohort (T-COACH). *Open Forum Infect Dis*. 2020 ;7(10):ofaa397. (SCI)
8. Huang CF, Lai HC, Chen CY, Tseng KC, Kuo HT, Hung CH, Wang JH, Chen JJ, Lee PL, Chien RN, Yang CC, Lo GH, **Tai CM**, Lin CW, Kao JH, Liu CJ, Liu CH, Yan SL, Bair MJ, Lin CY, Su WW, Chu CH, Chen CJ, Tung SY, Lo CC, Cheng PN, Chiu YC, Wang CC, Cheng JS, Tsai WL, Lin HC, Huang YH, Yeh ML, Huang JF, Dai CY, Chuang WL, Tsai PC, Peng CY, Yu ML Extrahepatic Malignancy Among Patients With Chronic Hepatitis C After Antiviral Therapy: A Real-World Nationwide Study on Taiwanese Chronic Hepatitis C Cohort (T-COACH).*Am J Gastroenterol*. 2020 ;115(8):1226-1235. (SCI)
9. Lo GH, Lin CW, **Tai CM**, Perng DS, Chen IL, Yeh JH, Lin HC. [A prospective, randomized trial of thrombin versus cyanoacrylate injection in the control of acute gastric variceal hemorrhage.](#) *Endoscopy*. 2020; 52(7):548-555 (SCI)
10. Chang CW, Tu CH, Chou JW, Huang TY, Hsu WH, Wang YP, Chen CC, Chung CS, Lin CP, Lin WC, **Tai CM**, Wang HY, Chen MJ. Endoscopic management of strictures in patients with Crohn's disease - A multi-center experience in Taiwan. *J Formos Med Assoc*. 2020;119(10):1500-1505. (SCI)
11. Wang WL, Chang IW, Hsu MH, Chen TH, Tseng CM, Tseng CH, **Tai CM**, Wang HP, Lee CT. [Risk factors and pathological characteristics for intraductal tumor spread of submucosal gland in early esophageal squamous cell neoplasia.](#) *Sci Rep*. 2020;10(1):6860. (SCI)
12. Hsu WF, Chen CY, Tseng KC, Lai HC, Kuo HT, Hung CH, Tung SY, Wang JH, Chen JJ, Lee PL, Chien RN, Lin CY, Yang CC, Lo GH, **Tai CM**, Lin CW, Kao JH, Liu CJ, Liu CH, Yan SL, Bair MJ, Su WW, Chu CH, Chen CJ, Lo CC, Cheng PN, Chiu YC, Wang CC, Cheng JS, Tsai WL, Lin HC, Huang YH, Tsai PC, Huang JF, Dai CY, Chuang WL, Yu ML, Peng CY. [Sustained virological response to hepatitis C therapy does not decrease the incidence of systemic lupus erythematosus or rheumatoid arthritis.](#) *Sci Rep*. 2020;10(1):5372. (SCI)
13. Tseng CM, Wang HH, Lee CT, **Tai CM**, Tseng CH, Chen CC, Tsai YN, Chen TH, Hsu MH, Wang CC, Hwang TZ, Wang HP, Wang WL. A nationwide population-based study to access the risk of metachronous esophageal cancers in head and neck cancer survivors. *Sci Rep*. 2020 Jan 21;10(1):884. (SCI)

Cheng-Hao Tseng

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1. **Tseng CH**, Nguyen MH, Hsu YC. Is tenofovir more effective than entecavir to prevent hepatocellular carcinoma? The controversy goes on. *Hpatol Int.* 2020 Aug 13. doi: 10.1007/s12072-020-10080-8. Online ahead of print.
2. Yeh JH, **Tseng CH**, Huang RY, Lin CW, Lee CT, Hsiao PJ, Wu TC, Kuo LT, Wang WL. Long-term Outcomes of Primary Endoscopic Resection vs Surgery for T1 Colorectal Cancer: A Systematic Review and Meta-analysis. *Clin Gastroenterol Hepatol.* 2020 Jun 8:S1542-3565(20)30771-0. doi: 10.1016/j.cgh.2020.05.060. Online ahead of print.
3. **Tseng CH**, Tseng CM, Wu JL, Hsu YC, El-Serag HB. Magnitude of and Prediction for Risk of Hepatocellular Carcinoma in Patients with Chronic Hepatitis B Taking Entecavir or Tenofovir Therapy: A Systematic Review. *J Gastroenterol Hepatol.* 2020 Apr 28. doi: 10.1111/jgh.15078. Online ahead of print.
4. **Cheng-Hao Tseng**, Chih-Kun Huang, Tzu-Haw Chen, Ming-Hung , Hsu, I-Sung Chen, Chi-Ming Tai. Increase in erosive esophagitis after laparoscopic adjustable gastric banded plication *Adv Dig Med.* 2019, 6.2:69-72
5. Hsu YC, **Tseng CH**, Kao JH. Quantification of Hepatitis B Core Antibody Helps Predict Clinical Relapse After Cessation of Nucleos(t)ide Analogues in Chronic Hepatitis B Patients: More Needs to Be Done. *Clin Gastroenterol Hepatol.* 2019 Apr;17(5):1000-1001

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1. **Yao-Chun Hsu**, Chi-Yi Chen, I-Wei Chang, Chi-Yang Chang, Chun-Ying Wu, Teng-Yu Lee, Ming-Shiang Wu, Ming-Jong Bair, Jyh-Jou Chen, Chieh-Chang Chen, Cheng-Hao Tseng, Chi-Ming Tai, Yen-Tsung Huang, Wen-Hui Ku, Lein-Ray Mo, Jaw-Town Lin. Once-daily tenofovir disoproxil fumarate in treatment-naive Taiwanese patients with chronic hepatitis B and minimally raised alanine aminotransferase (TORCH-B): a multicentre, double-blind, placebo-controlled, parallel-group, randomised trial. *Lancet Infect Dis.* 2021 Jun;21(6):823-833.
2. **Yao-Chun Hsu**, Vithika Suri, Mindie H Nguyen, Yen-Tsung Huang, Chi-Yi Chen, I-Wei Chang, Cheng-Hao Tseng, Chun-Ying Wu, Jaw-Town Lin, David Z Pan, Anuj Gaggar, Ondrej Podlaha. Inhibition of Viral Replication Reduces Transcriptionally Active Distinct Hepatitis B Virus Integrations With Implications on Host Gene Dysregulation. *Gastroenterology.* 2022 Apr;162(4):1160-1170.
3. **Yao-Chun Hsu**, Grace Lai-Hung Wong, Chien-Hung Chen, Cheng-Yuan Peng, Ming-Lun Yeh, Ka-Shing Cheung, Hidenori Toyoda, Chung-Feng Huang, Huy Trinh, Qing Xie, Masaru Enomoto, Li Liu, Satoshi Yasuda, Yasuhito Tanaka, Ritsuzo Kozuka, Pei-Chien Tsai, Yen-Tsung Huang, Christopher Wong, Rui Huang, Tyng-Yuan Jang, Joseph Hoang, Hwai-I Yang, Jiayi Li, Dong-Hyun Lee, Hirokazu Takahashi, Jian Q Zhang, Eiichi Ogawa, Changqing Zhao, Chenghai Liu, Norihiro Furusyo, Yuichiro Eguchi, Clifford Wong, Chao Wu, Takashi Kumada, Man-Fung Yuen, Ming-Lung Yu, Mindie H Nguyen. Tenofovir Versus Entecavir for Hepatocellular Carcinoma Prevention in an International Consortium of Chronic Hepatitis B. *Am J Gastroenterol.* 2020 Feb;115(2):271-280.
4. Cheng-Hao Tseng, **Yao-Chun Hsu**, Tzu-Haw Chen, Fanpu Ji, I-Sung Chen, Ying-Nan Tsai, Hoang Hai, Le Thi Thanh Thuy, Tetsuya Hosaka, Hitomi Sezaki, John A Borghi, Ramsey Cheung, Masaru Enomoto, Mindie H Nguyen. Hepatocellular carcinoma incidence with tenofovir versus entecavir in chronic hepatitis B: a systematic review and meta-analysis. *Lancet Gastroenterol Hepatol.* 2020 Dec;5(12):1039-1052.
5. **Yao-Chun Hsu***, Chih-Cheng Chen*, Wei-Hsiang Lee , Chi-Yang Chang , Fu-Jen Lee , Cheng-Hao Tseng , Tzu-Haw Chen , Hsiu J Ho , Jaw-Town Lin , Chun-Ying Wu. Compositions of gut microbiota before and shortly after hepatitis C viral eradication by direct antiviral agents. *Sci Rep.* 2022 Mar 31;12(1):5481.
6. **Yao-Chun Hsu** , Ming-Lun Yeh , Grace Lai-Hung Wong , Chien-Hung Chen , Cheng-Yuan Peng , Maria Buti , Masaru Enomoto , Qing Xie , Huy Trinh , Carmen Preda , Li Liu , Ka-Shing Cheung , Yee Hui Yeo , Joseph Hoang , Chung-Feng Huang , Mar Riveiro-Barciela , Ritsuzo Kozuka , Doina Istratescu , Pei-Chien Tsai , Elena Vargas Accarino , Dong-Hyun Lee , Jia-Ling Wu , Jee Fu Huang , Chia-Yen Dai , Ramsey

- Cheung , Wan-Long Chuang , Man-Fung Yuen , Vincent Wai-Sun Wong , Ming-Lung Yu , Mindie H Nguyen*. Incidences and Determinants of Functional Cure During Entecavir or Tenofovir Disoproxil Fumarate for Chronic Hepatitis B. *J Infect Dis.* 2021 Dec 1;224(11):1890-1899.
7. Ming-Chao Tsai , Sien-Sing Yang , Chih-Che Lin , Wen-Lun Wang , **Yao-Chun Hsu**, Yaw-Sen Chen , Jui-Ting Hu , James Yu Lin , Ming-Lung Yu , Chih-Wen Lin*. Association of Heavy Alcohol Intake and ALDH2 rs671 Polymorphism With Hepatocellular Carcinoma and Mortality in Patients With Hepatitis B Virus-Related Cirrhosis. *JAMA Netw Open.* 2022 Jul 1;5(7):e2223511.
 8. Hannah S J Choi , Grishma Hirode , Chien-Hung Chen , Tung-Hung Su , Wai-Kay Seto , Stijn Van Hees , Margarita Papatheodoridi , Sabela Lens , Grace L H Wong , Sylvia M Brakenhoff , Rong-Nan Chien , Jordan J Feld , Milan J Sonneveld , Henry L Y Chan , Xavier Fornis , George V Papatheodoridis , Thomas Vanwolleghem , Man-Fung Yuen , **Yao-Chun Hsu**, Jia-Horng Kao , Markus Cornberg , Bettina E Hansen , Wen-Juei Jeng , Harry L A Janssen* , RETRACT-B study group. Differential relapse patterns after discontinuation of entecavir vs tenofovir disoproxil fumarate in chronic hepatitis B. *Clin Gastroenterol Hepatol.* 2022 Jul. [Epub ahead of print].
 9. Mei-Jyh Chen , Ming-Jong Bair , Po-Yueh Chen , Ji-Yuh Lee , Tsung-Hua Yang , Yu-Jen Fang , Chieh-Chang Chen , An-Ti Chang , Wang-De Hsiao , Jian-Jyun Yu , Chia-Chi Kuo , Min-Chin Chiu , Kun-Pei Lin , Min-Horn Tsai , **Yao-Chun Hsu** , Chu-Kuang Chou , Chi-Yi Chen , Jaw-Town Lin , Yi-Chia Lee , Ming-Shiang Wu , Jyh-Ming Liou*, for the Taiwan Gastrointestinal Disease and Helicobacter Consortium. Declining trends of prevalence of Helicobacter pylori infection and incidence of gastric cancer in Taiwan: An updated cross-sectional survey and meta-analysis. *Helicobacter.* 2022 Jul [Online ahead of print].
 10. Chih-Hsun Yi , Ming-Jong Bair , Jen-Hung Wang , Ming-Wun Wong , Tso-Tsai Liu , Wei-Yi Lei , Shu-Wei Liang , Lin Lin , Jui-Sheng Hung , Jee-Fu Huang , **Yao-Chun Hsu** , Chien-Lin Chen*. Improvement of patient-reported outcomes in patients achieving sustained virologic response with direct-acting antivirals for hepatitis C virus infection. *J Microbiol Immunol Infect.* 2022 May 17:S1684-1182(22)00065-2.
 11. Jennifer R Kramer , Peter A Richardson , Hyunseok Kim , **Yao-Chun Hsu** , Fasiha Kanwal , Hashem B El-Serag*. The Risk of Hepatocellular Carcinoma in Entecavir Versus Tenofovir Treated US Cohort With Chronic Hepatitis B Virus. *Clin Gastroenterol Hepatol.* 2022 Mar 8:S1542-3565(22)00214-2.
 12. Chi-Cheng Huang , Chih-Yi Liu , Chi-Jung Huang , **Yao-Chun Hsu** , Heng-Hui Lien , Jia-Uei Wong , Feng-Chuan Tai , Wen-Hui Ku , Chi-Feng Hung , Jaw-Town Lin , Ching-Shui Huang* , Han-Sun Chiang*. Deciphering Genetic Alterations of Taiwanese Patients with Pancreatic Adenocarcinoma through Targeted Sequencing. *Int J Mol Sci.*

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13. Xinxing Tantai , Yi Liu , Yee Hui Yeo* , Michael Praktiknjo , Ezequiel Mauro , Yuhei Hamaguchi , Cornelius Engelmann , Peng Zhang , Jae Yoon Jeong , Jeroen Laurens Ad van Vugt , Huijuan Xiao , Huan Deng , Xu Gao , Qing Ye , Jiayuan Zhang , Longbao Yang , Yaqin Cai , Yixin Liu , Na Liu , Zongfang Li , Tao Han , Toshimi Kaido , Joo Hyun Sohn , Christian Strassburg , Thomas Berg , Jonel Trebicka , **Yao-Chun Hsu** , Jan Nicolaas Maria IJzermans , Jinhai Wang* , Grace L Su , Fanpu Ji * , Mindie H Nguyen. Effect of sarcopenia on survival in patients with cirrhosis: A meta-analysis. *J Hepatol.* 2022 Mar;76(3):588-599.
14. Grishma Hirode , Hannah S J Choi , Chien-Hung Chen , Tung-Hung Su , Wai-Kay Seto , Stijn Van Hees , Margarita Papatheodoridi , Sabela Lens , Grace Wong , Sylvia M Brakenhoff , Rong-Nan Chien , Jordan Feld , Milan J Sonneveld , Henry L Y Chan , Xavier Fornas , George V Papatheodoridis , Thomas Vanwolleghem , Man-Fung Yuen , **Yao-Chun Hsu** , Jia-Horng Kao , Markus Cornberg , Bettina E Hansen , Wen-Juei Jeng , Harry L A Janssen* , RETRACT-B Study Group. Off-Therapy Response After Nucleos(t)ide Analogue Withdrawal in Patients With Chronic Hepatitis B: An International, Multicenter, Multiethnic Cohort (RETRACT-B Study). *Gastroenterology.* 2022 Mar;162(3):757-771.e4.
15. **Yao-Chun Hsu*** , Cheng-Hao Tseng , Tung-Hung Su , Jia-Horng Kao , Mindie H Nguyen. Pooling data to assess risks and benefits of discontinuing nucleos(t)ide analogs in patients with chronic hepatitis B: challenges and opportunities. *Gut.* 2022 Jun;71(6):1238-1240.
16. Hyun-Seok Kim , Xian Yu , Jennifer Kramer , Aaron P Thrift , Pete Richardson , **Yao-Chun Hsu** , Avegail Flores , Hashem B El-Serag , Fasiha Kanwal*. Comparative performance of risk prediction models for hepatitis B-related hepatocellular carcinoma in the United States. *J Hepatol.* 2022 Feb;76(2):294-301.
17. **Yao-Chun Hsu*** , Jia-Ling Wu , Cheng-Hao Tseng , Mindie H Nguyen , Chih-Wen Lin , Chih-Lung Hung. Severe Acute Exacerbation After Cessation of Nucleos(t)ide Analog for Chronic Hepatitis B: A Real-World Study of Routine Practice. *Clin Gastroenterol Hepatol.* 2022 Jun;20(6):1413-1415.e3.
18. Ming-Lun Yeh , Po-Cheng Liang , Pei-Chien Tsai , Shu-Chi Wang , Jennifer Leong , Eiichi Ogawa , Dae Won Jun , Cheng-Hao Tseng , Charles Landis , Yasuhito Tanaka , Chung-Feng Huang , Jun Hayashi , **Yao-Chun Hsu** , Jee-Fu Huang , Chia-Yen Dai , Wan-Long Chuang , Mindie H Nguyen* , Ming-Lung Yu*. Characteristics and Survival Outcomes of Hepatocellular Carcinoma Developed after HCV SVR. *Cancers (Basel).* 2021 Jul 9;13(14):3455.
19. Daw-Shyong Perng , Chao-Ming Hung , Hung-Yu Lin , Paul Morgan , **Yao-Chun Hsu** ,

- Tsung-Chin Wu , Pei-Min Hsieh , Jen-Hao Yeh , Pojen Hsiao , Chih-Yuan Lee , Yu-Chan Li , Ya-Chin Wang , Yaw-Sen Chen , Chih-Wen Lin*. Role of autophagy-related protein in the prognosis of combined hepatocellular carcinoma and cholangiocarcinoma after surgical resection. *BMC Cancer*. 2021 Jul 17;21(1):828.
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