

台灣胰臟醫學會 106 年度冬季醫學病例研討會

會 議 議 程

時間：106 年 12 月 9 日 (星期六) 下午 13:25 至 17:15

地點：高雄醫學大學附設醫院 6F 第一會議室 (地址：807 高雄市三民區自由一路 100 號)

主辦單位：台灣胰臟醫學會、高雄醫學大學附設中和紀念醫院一般及消化外科

報到時間：13:00~ (不收費)

13:25~13:30 致 詞 台灣胰臟醫學會 李嘉龍 理事長

高雄醫學大學附設中和紀念醫院 李金德 教授

時 間	題 目	報 告 者 / 指 導 者
座 長：沈延盛 醫師 (成大) / 郭昭宏 醫師 (高醫)		
<u>CASE I :</u> 13:30~14:00 14:00~14:10	病例報告 綜合討論	趙盈瑞 醫師 / 沈延盛 醫師 成大醫院 一般外科
<u>CASE II :</u> 14:10~14:40 14:40~14:50	病例報告 綜合討論	施翔耀 醫師 / 郭昭宏 醫師 高醫大附院 胃腸內科
14:50~15:10	Coffee Break	
座 長：陳以書 醫師 (高榮) / 孫盟舜 醫師 (阮綜合)		
<u>CASE III :</u> 15:10~15:40 15:40~15:50	病例報告 綜合討論	康暮翔 醫師 / 陳以書 醫師 高雄榮民總醫院 一般外科
<u>CASE IV :</u> 15:50~16:20 16:20~16:30	病例報告 綜合討論	阮蘭婷 醫師 / 孫盟舜 醫師 阮綜合醫院 內科
座 長：郭功楷 醫師 (高醫)		
16:30~17:10	<u>專題演講</u> Nuclear complexes in inflammation driven pancreatic carcinogenesis 核複合物在發炎驅動下的胰腺癌作用機轉	陳乃銘 博士 高醫大附院 一般及消化系外科
17:10~17:15	Closing remarks	李金德 教授 高雄醫學大學附設中和紀念醫院

CURRICULUM VITAE



Ying-Jui Chao, MD

Assistant professor of general surgery
National Cheng-Kung University Hospital
No.138,Sheng Li Road,Tainan, Taiwan 704, R.O.C.
TEL : (06)2353535 Ext. 5182 FAX : 06-2766676

Medical Education

1996~2003- M.D., College of Medicine Taipei Medical University, Taipei, Taiwan

Postdoctoral Training

2004.4~2006.7- Resident, Department of Surgery, National Cheng Kung University Hospital

2006.8~2007.7- Resident, Division of General Surgery, Department of Surgery, National Cheng Kung University Hospital

2007.8~2009.7- Chief Resident, Division of General Surgery, Department of Surgery, National Cheng Kung University Hospital

Medical Licensures

Diploma, Board of Surgery (Taiwan)

Diploma, Board of Digestive Surgery (Taiwan)

Diploma, Board of Endoscopic Surgery (Taiwan)

Hospital Appointment

2009.8~2010.7- Attending Surgeon, Division of General Surgery, Department of Surgery, Tainan Municipal Hospital

2010.8~2012.7- Attending Surgeon, Division of General Surgery, Department of Surgery, National Cheng Kung University Hospital, Dou-Liou branch

2012.8~ Attending Surgeon, Division of General Surgery, Department of Surgery, National Cheng Kung University Hospital

2016.8~ Assistant professor, Division of General Surgery, Department of Surgery, National Cheng Kung University Hospital

Honors and Awards

- 2012 2nd place, Award of Best Video competition of endoscopic surgery, 71th Annual meeting of Taiwan Surgical Association
- 2016 Best paper award of Taiwan association for endoscopic surgery, 75th Annual meeting of Taiwan Surgical Association

Referred paper

1. Wang HC, Li TY, Chao YJ, Hou YC, Hsueh YS, Hsu KH, Shan YS. KIT Exon 11 Codons 557-558 Deletion Mutation Promotes Liver Metastasis Through the CXCL12/CXCR4 Axis in Gastrointestinal Stromal Tumors. *Clin Cancer Res.* 2016 Jul 15;22(14):3477-87
2. Wu CL, Chao YJ, Yang TM, Chen YL, Chang KC, Hsu HP, Shan YS, Lai MD. Dual role of CD44 isoforms in ampullary adenocarcinoma: CD44s predicts poor prognosis in early cancer and CD44v is an indicator for recurrence in advanced cancer. *BMC cancer.* 2015 Nov 16;15(1):903. doi: 10.1186/s12885-015-1924-3.
3. Chang-Ni Lin, Chih-Jung Wang, Ying-Jui Chao, Ming-Derg Lai, Yan-Shen Shan . The significance of the co-existence of osteopontin and tumor-associated macrophages in gastric cancer progression. *BMC Cancer* 2015;15:128
4. Liu CH, Huang SC, Chao YJ, Lin XZ, Lee GB. Hemostasis Plug for an Electromagnetic Thermotherapy and Its Application for Liver Laceration. *Ann Biomed Eng* 2015 Jul 3. [Epub ahead of print]
5. Chao YJ, Sy ED, Hsu HP, Shan YS. Predictors for resectability and survival in locally advanced pancreatic cancer after gemcitabine-based neoadjuvant therapy. *BMC Surg.* 2014 Sep 25;14:72
6. Hou YC, Chao YJ, Tung HL, Wang HC, Shan YS. Coexpression of CD44-positive/CD133-positive cancer stem cells and CD204-positive tumor-associated macrophages is a predictor of survival in pancreatic ductal adenocarcinoma. *Cancer.* 2014 Sep 1;120(17):2766-77
7. Chao YJ, Shan YS, Zuchini R, Tsai HW, Lin PW, Lee GB, Lin XZ. [Successfully Seal Pancreatic End After Thermal Distal Pancreatectomy Using Needle Arrays in Alternating Electromagnetic Fields.](#) *Surg Innov.* 2013 Apr;20(2):150-7
8. Chao YJ, Wang CJ, Shan YS. Technical notes: a self-designed, simple, secure, and safe six-loop intracorporeal Pringle's maneuver for laparoscopic liver resection. *Surg Endosc.* 2012; 26: 2681-6
9. Huang SC, Chang YY, Chao YJ, Shan YS, Lin XZ, Lee GB. [Dual-row needle arrays under an electromagnetic thermotherapy system for bloodless liver resection surgery.](#) *IEEE Trans Biomed Eng.* 2012 Mar;59(3):824-31

Patent

1. 專利名稱：腔內血流控制套件

發明人：趙盈瑞、賴昱斌、黃聖杰、沈延盛

國別：中華民國專利證書-發明第 I514987 號
期限：2016 年 1 月 1 日至 2032 年 7 月 19 日止

2. 專利名稱：微創手術縫合裝置

發明人：趙盈瑞、陳銘輝、丁育名、黃世樺
國別：中華民國專利證書-發明第 104141185 號
期限：2017 年 2 月 21 日至 2035 年 12 月 07 日止

Pancreatic cancer development in the remnant pancreas after pancreatic IPMN surgery

A case report

趙盈瑞 沈延盛

國立成功大學附設醫院外科部一般外科

Abstract

Surgery for pancreatic intraductal papillary mucinous neoplasm is indicated to prevent development of invasive cancer. However, the risk of recurrence of pancreatic tumor over the remnant pancreas was reported to as high as 13.5%. Here we presented a case of pancreatic head IPMN who underwent enucleation of tumor and roux-en-Y choledochojejunostomy initially. The patient was regularly followed up at outpatient department after surgery. Six years after the initial surgery, the abdominal CT showed a 4x4cm hypodense lesion over pancreatic head. Hence, he received pancreaticoduodenectomy and partial resection of inferior vena cava (IVC) due to tumor invasion to IVC. The pathology showed pancreatic adenocarcinoma with moderately differentiated (stage IIB, T3N1). The postoperative course was uneventful and he received adjuvant chemotherapy. However, tumor recurrence was noted 3 months later and he survived for 7 months.

Curriculum Vitae

施翔耀 醫師

現職：高雄醫學大學附設醫院胃腸內科主治醫師

學歷：高雄醫學大學醫學士

經歷：高雄市立大同醫院內科主治醫師

高雄市立小港醫院內科主治醫師

衛福部屏東醫院內科主治醫師

高雄醫學大學附設醫院內科總住院醫師

高雄醫學大學附設醫院內科住院醫師

專長： 消化道疾病，內視鏡超音波

Topic: Concomitant Lung, Liver and Pancreatic Tumors

施翔耀 醫師 / 郭昭宏 醫師

高醫大附院 胃腸內科

A 73-year-old female has underlying diseases of diabetes mellitus type 2 and hypertension. Three months before visiting the prior hospital she suffered progressive dyspnea. Chest x-ray of prior hospital disclosed left lung tumor and CT of chest demonstrated concomitant lung, pancreatic and hepatic tumors. She denied weight loss and poor appetite. She came to our Chest OPD for 2nd opinion. Blood tests revealed elevated CEA with level 14.84 ng/ml(0-5) and TPA with level 88.20 U/L(<75) and normal level of SCC 0.5 ng/ml(0-1.5). Bronchoscopic biopsy showed adenocarcinoma, grade 2 TTF-1(+). The cytologic and pathologic reports of echo-guided liver tumor fine needle aspiration/biopsy demonstrated negative and the specimen being too tiny to be cut respectively. Under the diagnosis of Primary lung adenocarcinoma oral chemotherapy was begun. Thereafter she was brought to our GI OPD for the opinion about pancreatic tumor. Laboratory data demonstrated CA19-9 <13.1 U/ml (<37) and Chromogranin A (CgA) 33.8 ng/ml (<101.9). EUS-FNA was performed and the reports showed Cytology: Suspicious for malignant cells and Pathology: Tiny nests of crushed atypical cells with small blue round cells appearance. Echo-guided liver tumor fine needle aspiration was scheduled again and it showed Highly suspicious for malignant cells.

The patient continued to receive oral chemotherapy for lung cancer at the Chest OPD and the follow-up CT of chest disclosed improvement of lung tumor. Due to non-conclusive diagnosis of pancreatic tumor we performed EUS-FNA again.

Curriculum Vitae

一、基本資料

中文姓名	康暮翔	英文姓名	Kang, Chi-Hsiang		
			(Last Name)	(First Name)	(Middle Name)
國 籍	中華民國	姓 別	男	出生日期	1980年10月03日
聯絡/住宅地址	81362 高雄市左營區大中一路 386 號 高雄榮總一般外科部				
聯絡電話	(公)07-3422121#3198		(手機) 0952468698		
傳真號碼		E-MAIL	chkang@vghks.gov.tw		

二、主要學歷 請填學士級以上之學歷或其他最高學歷均可，若仍在學者，請在學位欄填「肄業」。

畢 / 肄業學校	主修學門系所	學位	起訖年月
中山醫學大學畢業	醫學系	醫學士	1999/09 至 2006/06

三、教職

四、現職及與專長相關之經歷 指與研究相關之專任職務，請依任職之時間先後順序由最近者往前追溯。

服務機關	服務部門/系所	職 稱	起訖年月
現職：高雄榮民總醫院	一般外科部	主治醫師	2014年09月訖今
高雄榮民總醫院	外科部/一般外科	總 醫 師	2011年07月至2012年06月
高雄榮民總醫院	外科部/一般外科	住院醫師	2007年至2011年

五、專科執照與學會

台灣外科醫學會專科醫師

台灣消化外科醫學會專科醫師

台灣內視鏡外科醫學會專科醫師

台灣乳房外科醫學會專科醫師

六、期刊論文

1. Chi-Hsiang Kang, Chung-Yu Tsai. Richter's femoral hernia manifested by a progressive ileus. Formosan Journal of Surgery, Volume 47, Issue 5, October 2014, Pages 193–196

Curriculum Vitae

阮蘭婷 (Emily Yuan), MHS, MD.

emyuan@hotmail.com

Education

- The George Washington University Medical school, Washington, DC USA
Doctor of Medicine – May 2006
- Johns Hopkins University (School of Hygiene and Public Health), Baltimore, Maryland USA
Master of Health Science – May 2000
- Johns Hopkins University, Baltimore, Maryland USA
Bachelors of Arts - May 1998

Experience

- Yuan's General Hospital in Taiwan(阮綜合醫院)
Gastroenterology fellowship (starting 2012~ 2014)
Gastroenterologist (starting 2015)
- The American Board of Internal Medicine Certified (2009~2019)
- University of Southern California + Los Angeles County Hospital Internal Medicine Residency (June 2006 ~ July 2009)
- California Medical License (April 2008)
- Gill Fellowship (Immunology research on Anthrax Vaccination, July 2003 to August 2003)
- Johns Hopkins School of Medicine, Schneck Laboratory, Research Assistant (Immunology research on CD4/CD8 and Cell Apoptosis pathway, July 2000 to June 2002)
- Johns Hopkins Hospital, Baltimore, MD, Department of Emergency Medicine, Volunteer
(December 1999 – May 2000)
- Good Samaritan Hospital, Baltimore, MD, Department of Orthopedic Surgery
Laboratory Researcher/Technician (September 1995 - December 1996)

Publication and Awards

- Grand Round Presentation (October 2008)
- University of Southern California Internal Medicine Junior Resident of the Year. (June 2008)
- Gill Fellowship Research Award and Poster Presentation (September 2003)
- B220+ double-negative T cells suppress polyclonal T cell activation by a Fas-independent mechanism that involves inhibition of IL-2 production. Journal of Immunology 2003 Sep 1; 171(5)2421-6.

病例報告

阮蘭婷 醫師 / 孫盟舜 醫師

阮綜合醫院 內科

Abstract:

Solid pseudopapillary tumor is a rare neoplasm with incidence less than 2% of exocrine pancreatic neoplasms. This tumor was first coined by Dr. Frantz in 1959 and had various terms until 1996 when World Health Organization unified the term as solid pseudopapillary tumor (SPT). This tumor tends to occur in young female and has low malignant potential. We encountered a patient with atypical features of SPT, including male gender, metastasis at time of diagnosis, extrapancreatic invasion, and tumor size more than 5 cm.



個人資訊

姓名: 陳乃銘

出生日期與地點: 10.2.1978 高雄

婚姻狀況: 未婚

國籍: 德國與台灣

Email: Leomartin21@ yahoo.com.tw

Address: 高雄市誠義路18巷28

教育背景

1997-2001 高醫醫學大學 藥學系

2003-2010 德國馬堡大學醫學系

專業證照

7/2001 藥師證書

4/2010 德國醫師證書

1/2012 醫學博士

工作經歷

08/2001-07/2002 診所藥師

09/2010-04/2012 德國馬堡大學胃腸內科醫生

05/2012-07/2014

德國馬堡大學博士後

08/2014-03/2017

德國哥廷根大學胃腸內科醫生與研究室負責人

文獻期刊

第一作者:

Nai-Ming Chen, Albrecht Neesse, Moritz Lino Dyck, Alexander O. Koenig, Clara Lubeseder-Martellato, Thore Winter, Hanibal Bohnenberger, Julia Kitz, Jochen Gaedcke, Marian Grade, Jin-San Zhang, Wan-Chi Tsai, Thomas Stief, Jens Siveke, Philipp Ströbel, Steven A. Johnsen, Volker Ellenrieder and Elisabeth Hessmann, Context-dependent NFATc1 promoter editing in pancreatic plasticity, **Gastroenterology** 2017.

Baumgart S, **Chen NM**, Zhang JS, Billadeau DD, Gaisina IN, Kozikowski AP, Singh SK, Fink D, Ströbel P, Klindt C, Zhang L, Bamlet WR, Koenig A, Hessmann E, Gress TM, Ellenrieder V, Neesse A.

GSK-3 β Governs Inflammation-Induced NFATc2 Signaling Hubs to Promote Pancreatic Cancer Progression. **Mol Cancer Ther.** 2016

Chen NM, Singh G, Koenig A, Liou GY, Storz P, Zhang JS, Regul L, Nagarajan S, Kühnemuth B, Johnsen SA, Hebrok M, Siveke J, Billadeau DD, Ellenrieder V, Hessmann E. NFATc1 links EGFR activation to induction of Sox9 transcription and acinar-ductal transdifferentiation in the pancreas. **Gastroenterology** 2015 May;148(5):1024-1034

Fendrich V, **Chen NM**, Neef M, Waldmann J, Buchholz M, Feldmann G, Slater EP, Maitra A, Bartsch DK. The angiotensin-I-converting enzyme inhibitor enalapril and aspirin delay progression of pancreatic intraepithelial neoplasia and cancer formation in a genetically engineered mouse model of pancreatic cancer. **Gut.** 2010 May;59(5):630-7.

共通作者:

E. Hessmann, L. Klein, **N. Chen**, M. Patzak, T.E. Bapiro, K.K. Frese, F.M. Richards, D.I. Jodrell, C. Verbeke⁵, X. Li, R. Heuchel, J.M. Löhr, T.M. Gress, V. Ellenrieder, A. Neesse Fibroblast drug scavenging increases intratumoural gemcitabine accumulation in murine pancreas cancer. **Gut** **2016**.

Hessmann E, Jin-San Zhang, **Nai-Ming Chen**, Geou-Yarh Liou, Peter Storz, Volker Ellenrieder, Daniel D Billadeau, and Alexander Koenig. NFATc4 controls Sox9 expression in acinar cell plasticity and pancreatic cancer initiation. **Stem Cell Int.**, **2016**

Singh SK, **Chen NM**, Hessmann E, Siveke J, Lahmann M, Singh G, Voelker N, Vogt S, Esposito I, Schmidt A, Brendel C, Stiewe T, Gaedcke J, Mernberger M, Crawford HC, Bamlet WR, Zhang JS, Li XK, Smyrk TC, Billadeau DD, Hebrok M, Neesse A, Koenig A, Ellenrieder V. Antithetical NFATc1-Sox2 and p53-miR200 signaling networks govern pancreatic cancer cell plasticity. **EMBO J.** **2015** Feb 12;34(4):517-30.

Baumgart S, **Chen NM**, Siveke JT, König A, Zhang JS, Singh SK, Wolf E, Bartkuhn M, Esposito I, Heßmann E, Reinecke J, Nikorowitsch J, Brunner M, Singh G, Fernandez-Zapico ME, Smyrk T, Bamlet WR, Eilers M, Neesse A, Gress TM, Billadeau DD, Tuveson D, Urrutia R, Ellenrieder V.
Inflammation-induced NFATc1-STAT3 transcription complex promotes pancreatic cancer initiation by KrasG12D. **Cancer Discov.** **2014** Jun;4(6):688-701.

Baumgart S*, Glesel E*, Singh G, **Chen NM**, Reutlinger K, Zhang J, Billadeau DD, Fernandez-Zapico ME, Gress TM, Singh SK, Ellenrieder V. Restricted heterochromatin formation links NFATc2 repressor activity with growth promotion in pancreatic cancer. **Gastroenterology** **2012** Feb;142(2):388-98

* geteilte Erstautorenschaft

Nuclear complexes in inflammation driven pancreatic carcinogenesis

核複合物在發炎驅動下的胰腺癌作用機轉

陳乃銘 博士

高醫大附院 一般及消化系外科

BACKGROUND & AIMS:

The ability of exocrine pancreatic cells to change the cellular phenotype is required for tissue regeneration upon injury, but also contributes to their malignant transformation and tumor progression. We investigated context-dependent signaling and transcription mechanisms that determine pancreatic cell fate decisions toward regeneration and malignancy. In particular, we studied the function and regulation of the inflammatory transcription factor nuclear factor of activated T cells 1 (NFATC1) in pancreatic cell plasticity and tissue adaptation.

METHODS:

We analyzed cell plasticity during pancreatic regeneration and transformation in mice with pancreas-specific expression of a constitutively active form of NFATC1, or depletion of enhancer of zeste 2 homologue 2 (EZH2), in the context of wild-type or constitutively activate Kras, respectively. Acute and chronic pancreatitis were induced by intraperitoneal injection of caerulein. EZH2-dependent regulation of NFATC1 expression was studied in mouse in human pancreatic tissue and cells by immunohistochemistry, immunoblotting, and quantitative reverse transcription polymerase chain reaction. We used genetic and pharmacologic approaches of EZH2 and NFATC1 inhibition to study the consequences of pathway disruption on pancreatic morphology and function. Epigenetic modifications on the NFATC1 gene were investigated by chromatin immunoprecipitation assays.

RESULTS:

NFATC1 was rapidly and transiently induced in early adaptation to acinar cell injury in human samples and in mice, where it promoted acinar cell transdifferentiation and blocked proliferation of metaplastic pancreatic cells. However, in late stages of regeneration, Nfatc1 was epigenetically silenced by EZH2-dependent histone methylation, to enable acinar cell redifferentiation and prevent organ atrophy and exocrine insufficiency. In contrast, oncogenic activation of KRAS signaling in pancreatic ductal adenocarcinoma cells reversed the EZH2-dependent effects on the NFATC1 gene and was required for EZH2-mediated transcriptional activation of NFATC1.

CONCLUSIONS:

In studies of human and mouse pancreatic cells and tissue, we identified context-specific epigenetic regulation of NFATc1 activity as an important mechanism of pancreatic cell plasticity. Inhibitors of EZH2 might therefore interfere with oncogenic activity of NFATC1 and be used in treatment of pancreatic ductal adenocarcinoma.