

Hepato-Biliary-Pancreatic Surgery

1. Staffs and Students

Professor	Shigeki Arie (~March, 2012)	
Associate Professor	Shinji Tanaka	
Assistant Professor	Noriaki Nakamura,	Atsushi Kudo,
	Takumi Irie,	Takenori Ochiai,
	Daisuke Ban,	Arihiro Aihara (~March, 2012),
	Satoshi Matsumura (April, 2012~)	
	Tokunin Assistant Professor Yasen Mahmut (~November,2012)	
Graduate Student	Rama Adikrisna (~September,2012),	
	Syunsuke Muramatsu (~March, 2012),	
	Chisato Okajima,	Kouta Sato,
	Kousuke Ogawa,	Yuichiro Watanabe,
	Tomoya Miura,	Hiroko Matsunaga,
	Eriko Katsuta,	Takaki Furuyama,
	Hiromitsu Ito,	Keisuke Nakao,
	Keiichi Akahoshi (April, 2012~),	
	Xirali Mamat,	Maynur Abdurahman

2. Educational Vision

Medical School Education: Our mission is to educate students and transform them into high quality surgeons. Leading edge training, from basic to advanced, is provided through one-on-one interaction with advisers. Furthermore, students, as medical professionals, learn how to interact with patients, and establish strong ethics and morals. Especially, in regard to breaking bad news, students learn by dealing with real cases. While students mainly acquire surgical techniques during post-graduate clinical internships, their interest in surgery is nurtured through medical education.

Post-graduate Education: Our mission is to cultivate the capability of students as surgeons and physicians, in order to provide the highest quality patient care. Each student is expected to obtain a specialization in surgery within 5 or 6 years after graduation from medical school. During post-graduate education, we provide incentives for students to become excellent surgeons, conduct original medical research, and allow them to demonstrate their capability in the real world.

3. Research

We are making researches in the important issues which are remained to be resolved in the hepato-biliary-pancreatic surgery and diseases. The research subjects are as follows;

- 1) Research in the molecular mechanisms on the progression of hepato-biliary -pancreatic malignancies
- 2) Research in development of the molecular-targeting therapy for hepato-biliary -pancreatic malignancies.
- 3) Research in the extended indication of the hepatic resection for hepato-biliary malignancies.
- 4) Research in the transporter for bile metabolism
- 5) Research in the improvement of liver preservation
- 6) Research in the microcirculation of the liver
- 7) Research in immunological tolerance for organ transplantation
- 8) Research in technical improvement of laparoscopic surgery

4. Clinical practice

The major diseases we treat are those of liver, biliary tract including gallbladder, pancreas, and spleen, particularly malignant diseases of those organs. Especially, our mission is to treat advanced cancers with multidisciplinary strategy although our mainstay is surgical method. Living liver transplantation is also undertaken for end-stage liver diseases. Laparoscopic surgery is applied to neoplastic diseases as well as benign diseases from the viewpoint of less invasive surgery. The malignant cases we resected was 135 on 2012, which was ranked among high volume centers of our country.

5. Publications

Original Article

1. Adikrisna R, Tanaka S, Muramatsu S, Aihara A, Ban D, Ochiai T, Irie T, Kudo A, Nakamura N, Yamaoka S, Arii S. Identification of pancreatic cancer stem cells and selective toxicity of chemotherapeutic agents. *Gastroenterology*.143(1)234-245, 2012
2. Matsumura S, Imoto I, Kozaki K, Matsui T, Muramatsu T, Furuta M, Tanaka S, Sakamoto M, Arii S, Inazawa J. Integrative array-based approach identifies MZB1 as a frequently methylated putative tumor suppressor in hepatocellular carcinoma. *Clin Cancer Res*. 18(13):3541-51, 2012
3. Sato K, Tanaka S, Mitsunori Y, Mogushi K, Yasen M, Aihara A, Ban D, Ochiai T, Irie T, Kudo A, Nakamura N, Tanaka H, Arii S. Contrast-enhanced intraoperative ultrasonography for vascular imaging of hepatocellular carcinoma; clinical and biological signification. *Hepatology*, in press
4. Muramatsu S, Tanaka S, Mogushi K, Adikrisna R, Aihara A, Ban D, Ochiai T, Irie T, Kudo A, Nakamura N, Tanaka H, Nakayama K, Tanaka H, Yamaoka S, Arii S. Visualization of stem cell features in human hepatocellular carcinoma enlightened in vivo significance of tumor-host interaction and clinical implication. *Hepatology*, in press
5. Kudo A, Ban D, Aihara A, Irie T, Ochiai T, Nakamura N, Tanaka S and Arii S. Decreased Mrp2 transports in severe macrovesicular fatty liver grafts. *J Surg Res*. 2012;178(2):915-21.
6. Kudo A, Ban D, Akashi T, Kumagai J, Aihara A, Inokuchi M, Kojima K, Kawano T, Tanaka S, Arii S. Prognoses of GEP-Nets with undetermined malignant potentials of their primary sites. *Hepatogastroenterology*. 2012;59(118):1682-6.
7. Kudo A, Akashi T, Kumagai J, Ban D, Inokuchi M, Kojima K, Kawano T, Tanaka S, Arii S. The Importance of Clinical Information in Patients with Gastroenteropancreatic Neuroendocrine Tumor. *Hepatogastroenterology*. 2012;59(120):2450-3
8. Kudo A, Igari T, Kumagai J, Tanaka S, Ban D, Noguchi N, Irie T, Nakamura N, and Arii S. A simple index to predict liver functional reserve after hepatectomy. *Hepatogastroenterology*, in press
9. Irie T, Ito K, Ozasa H, Noda Y, Ikeda S, Tanaka S, Arii S, Horikawa S. Splenic artery ligation: A protection against hepatic ischemia/reperfusion injury in partially hepatectomized rats. *Hepatology Research*, 42(8):819-827, 2012
10. Ochiai T, Ohta K, Iida M, Kumagai Y, Mitsunori M, Aihara A, Noguchi N, Tanaka S, Arii S, Yamazaki S. High resectability of colorectal liver metastases with aggressive chemotherapy in the era of molecular target-based agents. *Hepatogastroenterology*, in press
11. Xieraili M, Yasen M, Mogushi K, Obulhasim G, Maynuer A, Aihara A, Tanaka S, Mizushima H, Tanaka H, Arii S. Villin 1 is a predictive factor for the recurrence of high serum alpha-fetoprotein-associated hepatocellular carcinoma after hepatectomy. *Cancer Sci* 2012;103(8)1493-1501
12. Yasen M, Obulhasim G, Kajino K, Mogushi K, Mizushima H, Tanaka S, Tanaka H, Hino O, Ari S. DNA binding protein A expression and methylation status in hepatocellular carcinoma and the adjacent tissue. *International Journal of Oncology*, 2012;40(3):789-97.
13. Obulhasim G, Yasen M, Kajino K, Mogushi K, Tanaka S, Mizushima H, Tanaka H, Arii S, Hino O. Up-regulation of dbpA mRNA in hepatocellular carcinoma associated with metabolic syndrome. *Hepatology International*, in press
14. Sakai S, Inamoto K, Liu Y, Tanaka S, Arii S, Taya M. Multicellular tumor spheroid formation in duplex microcapsules for analysis of chemosensitivity. *Cancer Sci* 2012;103(3):549-54.
15. Yamamoto Y, Sakamoto Y, Ban D, Shimada K, Esaki M, Nara S, Kosuge T. Is celiac axis resection justified for T4 pancreatic body cancer? *Surgery*. 2012;151(1):61-9.
16. Yamada Y, Boskovic S, Aoyama A, Murakami T, Putheti P, Smith RN, Ochiai T, Nadazdin O, Koyama I, Boenisch O, Najafian N, Bhasin MK, Colvin RB, Madsen JC, Strom TB, Sachs DH, Benichou G, Cosimi AB, Kawai T. Overcoming memory T-cell responses for induction of delayed tolerance in nonhuman primates. *Am J Transplant*. 2012; 12(2):330-40.
17. Kumagai Y, Kawada K, Yamazaki S, Iida M, Odajima H, Ochiai T, Kawano T, Takubo K. Current status and limitations of the newly developed endocytoscope GIF-Y0002 with reference to its diagnostic performance for common esophageal lesions. *J Dig Dis*. 2012;13(8):393-400.
18. Kumagai Y, Yagi M, Aida J, Ishida H, Suzuki S, Hashimoto T, Amanuma Y, Kusano M, Mukai S, Yamazaki S, Iida M, Ochiai T, Matsuura M, Iwakiri K, Kawano T, Hoshihara Y, Takubo K. Detailed features of palisade vessels as a marker of the esophageal mucosa revealed by magnifying endoscopy with narrow band imaging. *Dis Esophagus*. 2012;25(6):484-90.
19. Ban D, Shimada K, Konishi M, Saiura A, Hashimoto M, Uesaka K. Stapler and nonstapler closure of the pancreatic remnant after distal pancreatectomy: multicenter retrospective analysis of 388 patients. *World J Surg*.

Review Article, Case Report , etc.

1. Tanaka S, Arii S. Molecular Targeted Therapies in Hepatocellular Carcinoma. *Seminars in Oncology*. 2012; 39(4):486-492
2. Ochiai T, Masuda T, Yagi M, Kasai R, Furuyama T, Tsukamoto K, Ito H, Igari K, Aihara A, Kumagai Y, Iida M, Odajima H, Tanaka S, Arii S, Yamazaki S. Successful combination therapy of radical liver resection with 5-fluorouracil/leucovorin, oxaliplatin, plus bevacizumab for ascending colon cancer with pulmonary and 43 liver metastases: report of a case. *Int Surg*. 2012;97(1):6-13
3. Jibiki M, Inoue Y, Kudo T, Toyofuku T, Saito K, Kihara K, Kudo A, Ban D, Arii S. Combined resection of a tumor and the inferior vena cava: report of two cases. *Surg Today*. in press
4. Kumagai Y, Miura K, Nishida T, Igari K, Ochiai T, Iida M, Yamazaki S, Odajima H, Kawano T, Takubo K. Simultaneous resection of metastatic melanoma in the esophagus and primary cutaneous melanoma showing partial regression: report of a case. *Surg Today*. 2012; 42(9):884-90.
5. Uetake H, Tanaka S, Ishikawa T, Sugihara K, Arii S. Fate of metastatic foci after chemotherapy and usefulness of contrast-enhanced intraoperative ultrasonography to detect minute hepatic lesions. *J Hepatobiliary Pancreat Sci*. 2012;19(5):509-14

International Presentation

1. Nakamura N. Result of surgical treatment for peritoneal dissemination of hepatocellular carcinoma. 10th World Congress of the International Hepato-Pancreato-Biliary Association, Paris, 2012.7.1-5.
2. Ochiai T, Ohta K, Kumagai Y, Iida M, Yamazaki S, Tanaka S, Arii S. Aggressive resection of colorectal liver metastases after approval of molecular target-based drugs. 7th Academic Surgical Congress, Las Vegas, 2012.02.14.
3. Ochiai T, Kumagai Y, Iida M, Yamazaki S, Arii S. Efficacy of adjuvant chemotherapy for colorectal cancer with liver metastases since approval of molecular targeted agents. UICC World Cancer Congress 2012, Montoreal, 2012.8.27-30
4. Ochiai T, Yamazaki S, Kawachi H, Tanaka S, Arii S. Expression of sonic hedgehog in ampullary neoplasm. UICC World Cancer Congress 2012, Montoreal, 2012.8.27-30.
5. Ochiai T, Sato K, Matsumura S, Ban D, Irie T, Kudo A, Nakamura N, Tanaka S. Comparison of two classifications, TNM staging and Japanese classification of biliary tract carcinoma, for ampullary carcinoma: analysis of consecutive 24 resected cases. 22nd IASGO 2012, Bangkok, 2012.12.6
6. Ochiai T, Igari K, Nishizawa M, Yagi M, Kumagai Y, Iida M, Tanaka S, Arii S, Yamazaki S. A case report of pancreatic adenosquamous carcinoma presenting as recurrence of remnant pancreas after pylorus preserving pancreatoduodenectomy for pancreatic ductal adenocarcinoma. 22nd IASGO 2012, Bangkok, 2012.12.6
7. Ochiai T, Kumagai Y, Iida M, Tanaka S, Arii S, Yamazaki S. Surgical results of pancreatic ductal carcinoma: consecutive 81 cases from single institute in Japan. 22nd IASGO 2012, Bangkok, 2012.12.6
8. Sato T, Ochiai T, Ban D, Matsumura S, Irie T, Kudo A, Nakamura N, Tanaka S. A Case Report of Required Total Pancreatectomy for Ampullary Carcinoma: Due to Invasion to The Main Pancreatic Duct. 22nd IASGO 2012, Bangkok, 2012.12.6
9. Takamatsu S, Nagano H, Ootsukasa S, Kawachi Y, Maruyama H. A case report of the liver metastasis of colon cancer with the tumor thrombus in the intrahepatic bile duct. 10th World Congress of the International Hepato-Pancreato-Biliary Association, Paris, 2012.7.1-5.
10. Baba H, Sanada T, Goseki N, Ishida H. Can postoperative pancreatic fistula be predicted by simple clinical measure? 10th World Congress of Hepato-Pancreato-Biliary-Association. July 2, 2012, Paris, France
11. Baba H, Sanada T, Goseki N, Ishida H. Cystic duct cancer presenting hemobilia. 10th World Congress of Hepato-Pancreato-Biliary-Association. July 2, 2012, Paris, France