

Division of Clinical and Experimental Oncology

Department of Surgical Oncology

Lecturer	Yoshiyuki YAMAGUCHI, M.D., Ph.D.	
Lecturer	Kazuhiro YOSHIDA, M.D., Ph.D. * ¹	
Lecturer	Akihiko OSAKI, M.D., Ph.D.	
Research Associate	Jun HIHARA, M.D., Ph.D.	
Research Associate	Shigeru MURAKAMI, M.D., Ph.D. * ¹	
Research Associate	Kazuaki TANABE, M.D., Ph.D.	
Research Associate	Kei UKON, M.D., Ph. D. * ¹	(May 1, 2005～)
Research Associate	Yoichi HAMAI, M.D., Ph.D. * ¹	(October 1, 2005～)
Senior Research Assistant	Manabu EMI, M.D. * ¹	
Senior Research Assistant	Riki OKITA, M.D. * ¹	
Senior Research Assistant	Akiko OHSHITA, M.D. * ¹	
Postgraduate Student	Manabu EMI, M.D.	(～March 31, 2006)
Postgraduate Student	Akiko OHSHITA, M.D.	(～March 31, 2006)
Postgraduate Student	Riki OKITA, M.D.	
Postgraduate Student	Junya TAOMOTO, M.D.	
Postgraduate Student	Katsuji HIRONAKA, M.D.	
Postgraduate Student	Tomohito YAMAGUCHI, M.D.	(～September. 30, 2005)
Postgraduate Student	Yoshiyuki WADA, M.D.	(～March 31, 2006)
Postgraduate Student	Takahisa SUZUKI, M.D.	
Postgraduate Student	Hirozumi MIZUIRI, M.D.	
Postgraduate Student	Kazuo MATSUURA, M.D.	(～March 31, 2006)
Postgraduate Student	Makoto OKAWAKI, M.D.	
Postgraduate Student	Yuichi SANADA, M.D.	
Postgraduate Student	Hideo SHIGEMATSU, M.D.	
Postgraduate Student	Mamoru OHEDA, M.D.	
Postgraduate Student	Takuhiro IKEDA, M.D.	
Postgraduate Student	Masahiro OHARA, M.D.	
Postgraduate Student	Yasuhiro TSUTANI, M.D.	
Postgraduate Student	Ichiro NAGAMINE, M.D.	
Postgraduate Student	Kohei NISHIGAMI, M.D.	(～March 31, 2006)

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On Apr. 1st, 2005, Dr. Shigeru MURAKAMI, has returned to our department as a Research Associate from National Kyushu Cancer Center. On Apr. 1st, 2005, Dr. Koji OHTA, a Research Associate, has moved to National Shikoku Cancer Center and Dr. Yoshiharu KAWABUCHI, a Research Associate, has moved to Nomura Hospital. On May 1st, 2005, Dr. Kei UKON has been promoted to Research Associate of Hiroshima University Hospital and Dr. Yoichi HAMAI has gotten a promotion to Research Associate of Hiroshima University Hospital as of October 1st. On April 1st, Dr. Masahiro OHARA has admitted to postgraduate course, Dr. Kohei NISHIGAMI has returned to our department from National Kyushu Medical Center, Dr. Yasuhiro TSUTANI from National Shikoku Cancer Center, Dr. Ichiro NAGAMINE from Hiroshima Mitsubishi Hospital, and they have entered postgraduate course since April 1st, 2005. On November 1st, 2005, Dr. Junya TAOMOTO has newly appointed to National Kyushu Cancer Center as a staff member of ICU.

Dr. Kazuhiro YOSHIDA presented his paper at 41st Annual Meeting of American Society of Clinical Oncology (ASCO) in Orlando. Dr. Yoshiyuki YAMAGUCHI and Dr. Kazuhiro YOSHIDA presented their paper at 6th Meeting of the International Gastric Cancer Congress in Yokohama. Dr. Akihiko OSAKI presented his paper at 9th Meeting of International Conference in St. Gallen. Dr. Kazuo MASTUURA presented his paper at 28th San Antonio Breast Cancer Symposium in San Antonio. Dr. Manabu EMI, Kazuo MATSUURA, Akiko OHSHITA and Yoshiyuki WADA were awarded the degree of Doctor for medical science (Ph. D.). As postgraduate students, Drs. Kazuo KONISHI, Riki OKITA, Junya TAOMOTO, Katsuji HIRONAKA, Tomohito YAMAGUCHI, Takahisa SUZUKI, Hirozumi MIZIIRI, Mamoru OHEDA, Makoto OKAWAKI, Yuichi SANADA, Hideo SHIGEMATSU and Takuhiro IKEDA have continued their investigations. Drs. Masahiro OHARA, Yasuhiro TSUTANI, Ichiro NAGAMINE and Kohei NISHIGAMI started to investigate new postgraduate courses.

In teams for clinical aspect, our outpatient clinic and hospital ward belong to Hiroshima University Hospital and most our patients have malignant neoplasms such as stomach, esophagus, colorectal, hepatobiliary, pancreas, breast, thyroid or lung cancers. The number of new patients are increasing remarkably because useful management of beds in new hospital ward. In 2005, we had 871 new patients, 671 inpatients and 342 cases of surgery. As an educational facility, we are responsible for lectures as well as bedside and polyclinical teaching for students of Hiroshima University.

Table 1

Type of diseases \ year	No. of new outpatients			No. of inpatients			No. of operations		
	2003	2004	2005	2003	2004	2005	2003	2004	2005
Gastrointestinal									
Esophagus	31	52	63	84	86	130	19	30	26
Stomach	74	118	134	149	175	203	68	90	98
Colorectal	23	35	41	40	45	76	19	27	28
Hepato-pancreatico-biliary	18	27	25	33	38	44	11	9	7
total	146	232	263	306	344	453	117	156	159
Endocrine									
Breast	490	588	522	137	189	150	104	123	125
Thyroid	3	21	14	2	1	5	1	1	5
total	493	609	536	139	190	155	105	124	130
Respiratory									
Lung	36	38	28	32	35	49	10	29	19
miscellaneous	39	33	44	71	20	14	16	30	34
Total	714	912	871	548	589	671	248	339	342

1. Title of Research Project: Truth telling and QOL of the patients.
Investigators: Yoshiyuki YAMAGUCHI
2. Title of Research Project: Immuno-Gene therapy of cancer.
Investigators: Yoshiyuki YAMAGUCHI, Akiko OHSHITA, Takuhiro IKEDA, Katsuji HIRONAKA, Riki OKITA, Kazuo MATSUURA, Makoto OKAWAKI, Jun HIHARA
3. Title of Research Project: Specific immunotherapy for cancer using autologous lymphocytes.
Investigators: Yoshiyuki YAMAGUCHI, Katsuji HIRONAKA, Akiko OHSHITA, Takuhiro IKEDA, Riki OKITA, Kazuo MATSUURA, Makoto OKAWAKI, Jun HIHARA
4. Title of Research Project: Host-oriented prediction of CTL epitope (HOPE) using peptide panels .
Investigators: Yoshiyuki YAMAGUCHI, Katsuji HIRONAKA, Akiko OHSHITA, Takuhiro IKEDA, Riki OKITA, Kazuo MATSUURA, Makoto OKAWAKI, Jun HIHARA
5. Title of Research Project: Detection of CTL epitopes and generation of CTLs specific for VEGF-R, Reg-IV and RCAS-1 tumor-associated proteins.
Investigators: Yoshiyuki YAMAGUCHI, Makoto OKAWAKI, Akiko OHSHITA, Takuhiro IKEDA, Katsuji HIRONAKA, Riki OKITA, Kazuo MATSUURA, Jun HIHARA
6. Title of Research Project: Analysis of the T-cell receptor CDR3 sequences of anti-cancer T cells.
Investigators: Yoshiyuki YAMAGUCHI, Akiko OHSHITA, Takuhiro IKEDA, Katsuji HIRONAKA, Riki OKITA, Kazuo MATSUURA, Makoto OKAWAKI, Jun HIHARA
7. Title of Research Project: Detection of tumor-antigen-specific T cell responses using autologous tumor RNA-introduced cultured dendritic cells in sentinel lymph nodes.
Investigators: Yoshiyuki YAMAGUCHI, Kazuo MATSUURA, Akihiko OSAKI, Riki OKITA, Akiko OHSHITA, Takuhiro IKEDA, Katsuji HIRONAKA, Makoto OKAWAKI, Jun HIHARA
8. Title of Research Project: New cancer therapy using allogeneic immune reaction.
Investigators: Yoshiyuki YAMAGUCHI, Kazuhito MINAMI, Akiko OHSHITA, Takuhiro IKEDA, Katsuji HIRONAKA, Riki OKITA, Kazuo MATSUURA, Makoto OKAWAKI, Jun HIHARA, Hideo HYOUDOU * , Akirou KIMURA * (* Dept. Hematology)
9. Title of Research Project: Involvement of Toll-like-receptors (TLRs) in non-specific immunotherapy for cancer.
Investigators: Yoshiyuki YAMAGUCHI, Katsuji HIRONAKA, Riki OKITA, Kazuo MATSUURA, Akiko OHSHITA, Takuhiro IKEDA, Makoto OKAWAKI, Jun HIHARA
10. Title of Research Project: Analysis of immunosuppression in cancer patients and development of lymphoablative chemotherapy.
Investigators: Yoshiyuki YAMAGUCHI, Riki OKITA, Akiko OHSHITA, Takuhiro IKEDA, Katsuji HIRONAKA, Kazuo MATSUURA, Makoto OKAWAKI, Jun HIHARA
11. Title of Research Project: Chemotherapy for advanced colorectal cancer.
Investigators: Yoshiyuki YAMAGUCHI, Manabu EMI

12. Title of Research Project: Neoadjuvant Chemoradiotherapy for advanced lower rectal cancer.
Investigators: Yoshiyuki YAMAGUCHI, Manabu EMI
13. Title of Research Project: Basic and clinical investigations of laparoscopic surgery of the stomach.
Investigators: Kazuhiro YOSHIDA, Jun HIHARA, Kazuaki TANABE, Kei UKON
14. Title of Research Project: Genetic analysis and its clinical application for gastric and breast cancer.
Investigators: Kazuhiro YOSHIDA, Akihiko OSAKI
15. Title of Research Project: Sentinel node navigation and minimally invasive surgery for gastric cancer.
Investigators: Kazuhiro YOSHIDA, Hideaki UENO, Akihiko OSAKI
16. Title of Research Project: Analysis of chemo-resistance and its clinical application for gastric cancer.
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Kei UKON, Jun HIHARA
17. Title of Research Project: Molecular cloning of metastasis associated gene.
Investigators: Kazuhiro YOSHIDA, Yoshiyuki WADA, Kazuo KONISHI
18. Title of Research Project: Study on micrometastasis of gastric and esophageal cancer.
Investigators: Kazuhiro YOSHIDA, Jun HIHARA
19. Title of Research Project: Gene therapy using Orotate phosphoribosyl transferase (OPRT) gene in gastrointestinal carcinomas.
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE
20. Title of Research Project: Combination Phase I/II study of Docetaxel and TS-1 in advanced gastric cancer patients
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Jun HIHARA
21. Title of Research Project: Phase III study of TS-1 vs TS-1/TXT in advanced and recurrent gastric cancer.
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Kei UKON, Jun HIHARA, Yoichi HAMAI
22. Title of Research Project: Randomized phase II study of FP vs TS-1/TXT in advanced and recurrent gastric cancer
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Kei UKON, Jun HIHARA, Yoichi HAMAI
23. Title of Research Project: Phase III study of TS-1 vs TS-1/CPT-11 in advanced and recurrent gastric cancer
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Kei UKON, Jun HIHARA, Yoichi HAMAI
24. Title of Research Project: Antineoplastic effects of Oxaliplatin in gastric cancer cells
Investigators: Kazuhiro YOSHIDA, Yoshiyuki WADA, Kazuaki TANABE, Kei UKON, Kazuo KONISHI
25. Title of Research Project: The significance of MAGE gene in response prediction of Taxanes
Investigators: Kazuhiro YOSHIDA, Takahisa SUZUKI, Kazuo KONISHI

26. Title of Research Project: The methylation analysis of DPD gene
Investigators: Kazuhiro YOSHIDA, Hirozumi MIZUIRI, Akihiko OSAKI

27. Title of Research Project: The growth inhibitory effects of Iressa on gastric and esophageal cancer cells
Investigators: Kazuhiro YOSHIDA, Kazuo KONISHI, Hideo SHIGEMATSU, Mamoru OHEDA, Jun HIHARA,

28. Title of Research Project: The growth inhibitory effects of linoleic acid on gastric and esophageal cancer cells
Investigators: Kazuhiro YOSHIDA, Mamoru OHEDA, Kazuo KONISHI, Hideo SHIGEMATSU, Jun HIHARA,

29. Title of Research Project: The significance of S-1 as an adjuvant therapy for gastric cancer patients
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Kei UKON, Jun HIHARA, Yoichi HAMAI

30. Title of Research Project: The significance of S-1 and/or paclitaxel as an adjuvant therapy for gastric cancer patients
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Kei UKON, Jun HIHARA, Yoichi HAMAI

31. Title of Research Project: Phase I/II study of weekly Taxol as second line chemotherapy on gastric cancer patients
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE

32. Title of Research Project: Phase III study of TS-1 vs TS-1+CDDP on advanced and recurrent gastric cancer patients.
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Hideaki UENO,

33. Title of Research Project: Phase III study of TS-1 vs I-LV+5FU on advanced and recurrent gastric cancer patients.
Investigators: Kazuhiro YOSHIDA, Kazuaki TANABE, Jun HIHARA

34. Title of Research Project: Clinical Study on motility of remnant stomach after function-preserving gastrectomy
Investigators: Kazuhiro YOSHIDA, Kei UKON, Kazuaki TANABE

35. Title of Research Project: Dose finding study of weekly paclitaxel for recurrent or advanced breast cancer patients.
Investigators: Akihiko OSAKI, Akiko OHSHITA,

36. Title of Research Project: Phase II study of weekly paclitaxel in combination with UFT for recurrent or advanced breast cancer patients.
Investigators: Akihiko OSAKI, Akiko OHSHITA,

37. Title of Research Project: Studies on breast cancer screening with screening mammography over 40 years old.
Investigators: Akihiko OSAKI, Akiko OHSHITA,

38. Title of Research Project: Investigation of axillary lymph node dissection based on the identification of the sentinel lymph nodes using indigocarmine and radioisotope for breast cancer.
Investigators: Akihiko OSAKI, Kazuo MATSUURA, Akiko OHSHITA,
39. Title of Research Project: Studies of clinical significance of micrometastasis in sentinel lymph node, peripheral blood and bone marrow in breast cancer patients.
Investigators: Akihiko OSAKI, Kazuo MATSUURA, Akiko OHSHITA,
40. Title of Research Project: Correlation between micrometastasis and immunological parameters in sentinel lymph nodes and bone marrow for breast cancer patients.
Investigators: Akihiko OSAKI, Kazuo MATSUURA, Akiko OHSHITA, Yoshiyuki YAMAGUCHI
41. Title of Research Project: Promotion of cancer metastasis by surgical stress (Surgical Oncotaxis)
Investigators: Jun HIHARA, Hideaki UENO, Yoichi HAMAI, Manabu EMI, Yoshiyuki WADA, Kazuhiro YOSHIDA, Yoshiyuki YAMAGUCHI
42. Title of Research Project: Sentinel node detection using fluorescent microspheres.
Investigators: Jun HIHARA, Hideaki UENO, Yoichi HAMAI, Manabu EMI, Kazuhiro Yoshida
43. Title of Research Project: Adjuvant chemo-radiotherapy and QAS for esophageal cancer
Investigators: Jun HIHARA, Hideaki UENO, Yoichi HAMAI, Manabu EMI, Kazuhiro YOSHIDA
44. Title of Research Project: Neoadjuvant chemoradiotherapy for advanced esophageal cancer.
Investigators: Jun HIHARA, Hideaki UENO, Yoichi HAMAI, Manabu EMI, Kazuhiro YOSHIDA
45. Title of Research Project: Phase I/II study of concurrent chemoradiotherapy using docetaxel and 5FU for non-resectable advanced esophageal cancer.
Investigators: Jun HIHARA, Hideaki UENO, Yoichi HAMAI, Manabu EMI, Kazuhiro YOSHIDA
46. Title of Research Project: Control of excess biological response for surgical stress.
Investigators: Jun HIHARA, Hideaki UENO, Yoichi HAMAI, Manabu EMI, Kazuhiro YOSHIDA, Yoshiyuki YAMAGUCHI
47. Title of Research Project: Cancer metastasis model using green fluorescent protein (GFP)-transduced cancer cell lines.
Investigators: Jun HIHARA, Hideaki UENO, Kazuhiro YOSHIDA
48. Title of Research Project: Nutrition management during perisurgical period of esophageal cancer operation.
Investigators: Jun HIHARA, Hideaki UENO, Yoichi HAMAI, Manabu EMI, Kazuhiro YOSHIDA, Yoshiyuki YAMAGUCHI
49. Title of Research Project: Endobronchial intervention against malignant airway stenosis.
Investigators: Yoichi HAMAI, Jun HIHARA, Riki OKITA

Original paper

1. Yamaguchi, Y., Toge, T.: Treatment of recurrent and metastatic cancer and its efficacy: locoregional immunotherapy of malignant effusion. *Immunotherapy of cancer* (edt. Saji, S.), pp112-117, Iyaku Journal, Osaka, 2005.
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3. Yamaguchi, Y., Minami, K., Kawabuchi, Y., Emi, M., Toge, T.: Anterior resection of rectal cancer through a one hand-size incision with or without laparoscopy-Proposal of One Hand-Size Incision Surgery (OHaSIS)-. *J. Surg. Res.*, 129, 136-141, 2005. (I)
4. Yamaguchi, Y., Hironaka, K., Okawaki, M., Okita, R., Matsuura, K., Ohshita, A., Toge, T.: HER2-specific cytotoxic activity of lymphokine-activated killer cells in the presence of trastuzumab. *Anticancer Res.*, 25, 827-832, 2005. (I)
5. Yamaguchi, Y., Ohshita, A., Emi, M., Kawabuchi, Y., Toge, T.: Neoadjuvant therapy of rectal cancer using oral tegafur-uracil (UFT) plus concomitant radiotherapy-A case report-. *Hiroshima Med. Sci.*, 54, 87-91, 2005. (I)
6. Yoshida, K., Tanabe, K., Ukon, K., Hihara, J., Ohta, K., Toge, T.: Laparoscopy assisted distal gastrectomy (LADG) preserving autonomic nerves. 6th International gastric cancer congress (edt. Kitajima, M. and Otani, Y.) pp.389-393, 2005.
7. Yoshida, K., Toge, T., Nishiyama, M. * (*Division of Clinical Experimental Oncology, Department of Translational Cancer Research): Combination therapy of S-1 and docetaxel for gastric cancer and their synergistic effects. 6th International gastric cancer congress (edt. Kitajima, M. and Otani, Y.) pp.95-99, 2005.
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Graduate School of Biomedical Sciences Hiroshima University): Expression of p53 protein in esophageal squamous cell carcinoma: relation to hypoxia-inducible factor-1 alpha, angiogenesis and apoptosis. *Pathobiology*, 72,179-185, 2005.

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19. Okita, R., Saeki, T., Takashima, S., Aogi, K., Ohsumi, S. Progressive Central Nervous System Metastases in Responder Patients for Outside Central Nervous System Metastases on Trastuzumab-Based Therapy -Report of Two Cases of Refractory Breast Cancer-. *Hiroshima Journal of Medical Science.*, 54, 35-38, 2005.(I)
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25. Yamaguchi, Y., Hihara, J., Ohara, M., Nagamine, I., Ikeda, T., Okawaki, M., Hironaka, K., Matsuura, K., Okita, R., Ohshita, A., Shimizu, K.: Surgery and Immune System-Surgical Stress-. J. Jap. Surg. Soc., 106, 444-448, 2005. (I)
26. Yoshida, K.: Can D2 LN dissection be world standard procedure in gastric cancer ? CRITICAL EYES on clinical oncology 15: 3-4, 2005.
27. Yoshida, K., Yamaguchi, Y., Osaki, A., Hihara, J., Tanabe, K., Ukon, K., Hamai, Y., Emi, M., Konishi, K., Mizuiri, H., Okita, R., Suzuki, T., Taomoto, J., Matsuura, K., Toge, T.: Treatment results of gastric cancer in our department(1)-the results of surgical treatment- Hiroshima Igaku (J. Hiroshima Med. Assoc.) 58, 503-510, 2005.
28. Yoshida, K., Yamaguchi, Y., Hihara, J., Murakami, S., Shimizu, K., Tanabe, K., Ukon, K., Hamai, Y., Emi, M., Okawaki, M., Hironaka, K., Oeda, M., Oshita, A., Sanada, Y., Shigematsu, H., Wada, Y., Ikeda, T., Ohara, M., Tsudani, Y., Nagamine, I., Toge, T.:Treatment results of gastric cancer in our department(1)-the results of chemotherapeutic treatment- Hiroshima Igaku (J. Hiroshima Med. Assoc.)58, 511-519, 2005.
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Meeting Presentation

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2. Yoshida, K., Toge, T., and Nishiyama, M. * (*Department of Translational Cancer Research, Research Institute for Radiation Biology and Medicine, Graduate School of Medical Science, Hiroshima University): Combination therapy of S-1 and Docetaxel for Gastric Cancer and their synergistic effects. 6th International gastric cancer congress. Yokohama, 2005. (in Jap.)
3. Yoshida, K., Tanabe, K., Ukon, K., Hihara, J., Ohta, K., Toge, T.: Laparoscopy assisted distal gastrectomy (LADG) preserving autonomic nerves. 6th International gastric cancer congress. Yokohama, 2005. (in Jap.)
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