

# p16 mutations in pancreatic cancer and its clinical application using pancreaitc juice

メタデータ	言語: jpn 出版者: 公開日: 2022-05-27 キーワード (Ja): キーワード (En): 作成者: Watanabe, Hiroyuki メールアドレス: 所属:
URL	<a href="https://doi.org/10.24517/00066009">https://doi.org/10.24517/00066009</a>

This work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 3.0 International License.



# 1998 Fiscal Year Final Research Report Summary

---

## p16 mutations in pancreatic cancer and its clinical application using pancreatic juice

Research Project

### Project/Area Number

---

09670524

### Research Category

---

Grant-in-Aid for Scientific Research (C)

### Allocation Type

---

Single-year Grants

### Section

---

一般

### Research Field

---

Gastroenterology

### Research Institution

---

Kanazawa University

### Principal Investigator

---

**WATANABE Hiroyuki** Kanazawa Univ., Cancer Res.Inst., Res.Associate, がん研究所, 助手 (30242564)

### Project Period (FY)

---

1997 - 1998

### Keywords

---

p16 mutations / pancreatic cancer / immunohistochemistry / pancreatic juice / microdissection / homozygous deletion / PCR-SSCP

### Research Abstract

---

I have reported that detection of K-ras mutations in pure pancreatic juice (PPJ) was useful for the diagnosis of pancreatic carcinoma (PCa). However, combination assay of K-rag and p53 mutations was not completely fulfilled for the diagnosis of PCa. Therefore, a new specific gene for PCa is needed for the supplemental diagnosis of PCa. p16 is a suppressor gene with the function of cyclin dependent kinase (CDK) inhibitor, and high incidence of

p16 inactivation in PCa cell lines was recently reported.

Expression of p16 gene product in human PCa was investigated in paraffin-embedded tissue using a monoclonal antibody against p16 protein, clone G175-405, by means of immunohistochemical staining. All six cases of normal pancreas and all but 1 of 20 cases of chronic pancreatitis (CP) expressed p16 protein, whereas 41.9% (26 of 62) of PCas lost p16 expression. There was a significant difference between CP and PCa for frequency of the loss of p16 expression. ( $p < 0.01$ ). Moreover loss of p16 protein ... More

## Research Products (12 results)

All Other

All Publications (12 results)

[Publications] Hu Y-X et al.: "Frequent loss of p16 expression and its correlation with clinicopathological parameters in pancreatic carcinoma." Clin.Cancer Res.3. 1473-1477 (1997) ▼

[Publications] Hu Y-X et al.: "Infrequent expression of p21 is related to altered p53 protein in pancreatic carcinoma." Clin.Cancer Res.4. 1147-1152 (1998) ▼

[Publications] Watanabe H et al.: "Quantitative determination of K-ras mutations in pancreatic juice for diagnosis of pancreatic cancer using hybridization protection assay." Pancreas. 17. 341-347 (1998) ▼

[Publications] Taga H et al.: "Large duodenal tumor with positive K-ras mutation mimicking lateral spreading tumor of the colon." Dig.Endosc.11. 70-75 (1999) ▼

[Publications] Hu Y-X et al.: "Bcl-2 expression related to altered p53 protein and its impact on the progression of human pancreatic carcinoma." Br.J.Cancer. in press. ▼

[Publications] Yamaguchi Y et al.: "Detection of mutations of p53 tumor suppressor gene in pancreatic juice and its application to diagnosis of patients with pancreatic cancer-comparing with K-ras mutation." Clin.Cancer Res.in press. ▼

[Publications] Hu Y-X,Watanabe H,Ohtsubo K,Yamaguchi Y,Ha A,Okai T,and Sawabu N.: "Frequent loss of p16 expression and its correlation with clinicopathological parameters in pancreatic carcinoma." Clin Cancer Res. 3. 1473-1477 (1997) ▼

[Publications] Hu Y-X,Watanabe H,Ohtsubo K,Yamaguchi Y,Ha A,Motoo Y,Okai T,and Sawabu N.: "Infrequent expression of p21 is related to altered p53 protein in pancreatic carcinoma." Clin Cancer Res. 4. 1147-1152 (1998) ▼

[Publications] Watanabe H,Yamaguchi Y,Ha A,Hu Y-X,Motoo Y,Okai T,and Sawabu N.: "Quantitative determination of K-ras mutations in pancreatic juice for diagnosis of pancreatic cancer using hybridization protection assay." Pancreas. 17. 341-347 (1998) ▼

[Publications] Taga H,Watanabe H,Yamaguchi Y,Ohtsubo K,Ha A,Hu Y-X,Motoo Y,Okai T,Mizoguchi M,Mai M,Kawashima A,and Sawabu N.: "Large duodenal tumor with positive K-ras mutation mimicking lateral spreading tumor of the colon." Dig Endosc. 11. 70-75 (1999) ▼

[Publications] Hu Y-X,Watanabe H,Ohtsubo K,Yamaguchi Y,Ha A,Motoo Y,Okai T,and Sawabu N.: "Bcl-2 expression related to altered p53 protein and its impact on the progression of human pancreatic carcinoma." Br J Cancer. (in press). ▼

[Publications] Yamaguchi Y, Watanabe H,Songur Y,Ohtsubo K,Motoo Y,Okai T,and Sawabu N.: "Detection of mutations of p53 tumor suppressor gene in pancreatic juice and its application to diagnosis of patients with pancreatic cancer-comparing with K-ras mutation." Clin Cancer Res. (in press). ▼

URL: [https://kaken.nii.ac.jp/report/KAKENHI-PROJECT-09670524/096705241998kenkyu\\_seika\\_hokoku\\_](https://kaken.nii.ac.jp/report/KAKENHI-PROJECT-09670524/096705241998kenkyu_seika_hokoku_)

Published: 1999-12-07