Activation and regulation of oncogenic signaling networks in colorectal cancer

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2005 Fiscal Year Final Research Report Summary

Activation and regulation of oncogenic signaling networks in colorectal cancer

Research Project

Project/Area Number
15390391
Research Category
Grant-in-Aid for Scientific Research (B)
Allocation Type
Single-year Grants
Section
一般
Research Field
Digestive surgery
Research Institution
Kanazawa University
Principal Investigator
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Co-Investigator(Kenkyū-buntansha)
TAKAHASHI Yutaka Kanazawa University, Cancer Research Institute, Associate Professor, がん研究所, 助教授 (10179541)
Project Period (FY)
2003 – 2005
Keywords
Colorectal cancer / Oncogenic signaling / β-catenin / Ubiquitin system / β-TrCP / NF-κB / RNA trans-acting factor

Research Abstract

A promising area in current cancer research explores the wide range of molecular events including aberrant/alternative gene splicing, epigenetic changes, cellular signal transduction, transcriptional regulation and post-translational modifications, which determine the fate of cells (growth, differentiation, and programmed cell death). One of such events takes place in the Wnt signaling pathway, and its aberrant activation is involved in malignant transformation of cells, β -catenin has two distinct functions, namely, maintaining cell-to-cell adhesion and mediating the Wnt/ β -catenin pathway, which plays pivotal roles in embryogenesis and in certain tumors, particularly development and progression of colorectal cancer (CRC)^<16>. On the basis of our previous studies showing association of distinct patterns of β -catenin activation with malignant potential of the tumors and clinical outcome of CRC patients^6, in the present study we addressed the molecular and cellular mechanisms underlying ···• More

Research Products (37 results)

									A	ll 200)6 Z	2005	2004	2003
[All	Journal A	rticle (3	5 results)	Book (1 results)	Pat	ent(Inc	lustria	l Prope	erty	Rights	s) (1 re	sults)
[Journal Article] c-kit gene mutation is common and widely distributed in intracranial germinomas								2006	6 ¥					
[Journal Article] Loss of imprinting in IGF2 in colorectal of	carci	noma asses	ssed by r	nicrodissec	ction								2006	6 v
[Journal Article] c-kit gene mutation is common and widely distributed in intracranial germinomas.								2006	6 ×					
[Journal Article] Loss of imprinting in IGF2 in colorectal carcinoma assessed by microdissection.								2006	6 ~					
[Journal Article] A full genome scan for gastric cancer								2005	5 ~					
[Journal Article] Correlation of γ -catenin expression with good prognosis in medulloblastomas									2005	5 ~				
[Journal Article] Adhesiveness of β 5 integrin variant lacking FNK $^{767-769}$ is similar to that of the prototype containing FNKFNK $^{767-769}$								59>	2005	5 ~				
[Journal Article] Deregulated GSK3 β activity in colorecta	al car	ncer : its as	sociation	with tumo	or cell sur	vival and p	prolife	eration					2005	5 ~
[Journal Article] A genetic variant in the gene encoding t Japanese population	the s	stress70 pro	otein cha	perone fan	nily mem	ber STCH i	is ass	ociated	with ga	astric ca	ance	r in the	2005	5 ~
[Journal Article] Oneogenic β -catenin signaling networks	s in c	colorectal ca	ancer										2005	5 ~
[Journal Article] Detection and characterization of oncog tissue and aberrant crypt foci of colorectal cancer patien	gene nts.	mutations	in prenec	plastic and	d early no	eoplastic le	esions	: K-ras	oncoge	ene in r	10N-r	ncopla	stic 2005	5 ~
[Journal Article] A full genome scan for gastric cancer.													2005	5 ~
[Journal Article] Correlation of γ -catenin expression with	n goo	od prognosi:	s in med	ulloblastom	nas.								2005	5 ~
[Journal Article] Adhesiveness of $\beta 5$ integrin variant lack	king I	FNK^<767	-769> is	similar to	that of th	e prototyp	oe cor	itaining	_FNKFN	\K^<7€	57-7 [,]	69>.	2005	5 ~
[Journal Article] Deregulated GSK3 β activity in colorecta	al car	ncer : its as	sociation	with tumo	or cell sur	vival and p	prolife	eration.					2005	5 ~
[Journal Article] A genetic variant in the gene encoding to Japanese population.	the s	stress70 pro	otein cha	perone fan	nily mem	ber STCH i	is ass	ociated	with ga	astric ca	ance	r in the	200	5 ~
[Journal Article] Oncogenic β -catenin signaling networks	s in c	olorectal ca	ancer.										2005	5 ~
[Journal Article] Pilot study of low dose, divided maximu	um to	olerated dos	se of CPT	-11 in 21 d	consecuti	ve patients	s with	ı metasi	tatic co	lorectal	or g	jastric	cancer 2004	4 ~
[Journal Article] Epidermoid cyst of the intrapancreatic a	acces	sory spleer	n produci	ng CA19-9)								2004	4 ~
[Journal Article] Associations among β -TrCP, an E3 ubiqu	uitin	ligase recej	ptor, β-ca	itenin and	NF-κB in	colorectal	canc	er					2004	4 ~

[Journal Article] Pilot study of low dose, divided maximum tolerated dose of CPT-11 in 21 consecutive patients with metastatic colorectal or gastric	cancer. 2004	~
[Journal Article] Epidermoid cyst of the intrapancreatic accessory spleen producing CA19-9.	2004	~
[Journal Article] Associations among β -TrCP, an E3 ubiquitin ligase receptor, β -catenin and NF- κ B in colorectal cancer.	2004	~
[Journal Article] Abnormal expression of E-eadherin, β -catenin and c-erbB-2 in gastric cancer with liver metastasis	2003	~
[Journal Article] Visualizing the gastric wall with a 30-MHz ultrasonic miniprobe : cx vivo imaging of normal gastric sites and sites of early gastric c	ancer 2003	~
[Journal Article] Virchow's Archive	2003	~
[Journal Article] Endosonographie evaluation of c-kit-positive gastrointestinal stromal tumor	2003	~
[Journal Article] Expression of αv integrin family in gastric carcinomas : increased αvβ6 is associated with lymph node metastasis	2003	~
[Journal Article] β -catenin and ras oncogenes detect most human colorectal cancers	2003	~
[Journal Article] Abnormal expression of E-cadherin, β -catenin and c-erbB-2 in gastric cancer with liver metastasis.	2003	~
[Journal Article] Visualizing the gastric wall with a 30-MHz ultrasonic miniprobe : ex vivo imaging of normal gastric sites and sites of early gastric c	ancer. 2003	~
[Journal Article] Collagenofibrotic glomerulopathy with a widespread expression of type V collagen.	2003	~
[Journal Article] Endosonographic evaluation of c-kit-positive gastrointestinal stromal tumor.	2003	~
[Journal Article] Expression of αv integrin family in gastric carcinomas : increased αvβ6 is associated with lymph node metastasis.	2003	~
[Journal Article] β -catenin and ras oncogenes detect most human colorectal cancers.	2003	~
[Book] Molecular Toxicology Protocols/Methods of Molecular Biology Vol 291	2004	~
[Patent(Industrial Property Rights)] GSK3β阻害効果に基づくがんの抑制および抗がん剤の評価方法	2006	~

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