

JFCR Fact Sheet

Japanese Foundation for Cancer Research

as of October 1, 2016

Organization

Cancer Institute Hospital

<ul style="list-style-type: none"> ▪ Thoracic Center ▪ Gastroenterology Center ▪ Breast Oncology Center ▪ Gynecologic Oncology ▪ Head and Neck Oncology ▪ Orthopedic Oncology ▪ Genitourinary Oncology ▪ Hematology Oncology ▪ Medical Oncology 	<ul style="list-style-type: none"> ▪ Sarcoma Center ▪ Immunotherapeutics & Gene Oncology ▪ General Medicine ▪ Anesthesiology/ Pain Service ▪ Cancer Pain Service ▪ Psycho-Oncology ▪ Plastic and Reconstructive Surgery ▪ Ophthalmology 	<ul style="list-style-type: none"> ▪ KAMPO Support (Japanese Herbal Medicine) ▪ Dentistry ▪ Palliative Care Center ▪ Radiation Oncology ▪ Diagnostic Imaging Center ▪ Endoscopy ▪ Comprehensive Medical Oncology ▪ Clinical Genetic Oncology
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Cancer Institute

<ul style="list-style-type: none"> ▪ Pathology ▪ Experimental Pathology ▪ Cell Biology ▪ Cancer Biology 	<ul style="list-style-type: none"> ▪ Biochemistry ▪ Radiation Physics ▪ Genetic Diagnosis ▪ Carcinogenesis 	<ul style="list-style-type: none"> ▪ Epigenetic Carcinogenesis ▪ Protein Engineering ▪ Cancer Genomics ▪ Pathology Project for Molecular Targets
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Cancer Chemotherapy Center

<ul style="list-style-type: none"> ▪ Experimental Chemotherapy ▪ Molecular Pharmacology ▪ Molecular Biotherapy 	<ul style="list-style-type: none"> ▪ Gene Therapy ▪ Genome Research ▪ Clinical Chemotherapy
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Cancer Precision Medicine Center

<ul style="list-style-type: none"> ▪ Project for Development of Genomics-based Cancer Medicine ▪ Project for Development of Innovative Research on Cancer Therapeutics ▪ Project for Realization of Personalized Cancer Medicine ▪ Project for Liquid Biopsy Diagnosis Development ▪ Project for Immunogenomic Therapeutics
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Financial Data

Financial Summary

	Millions of Yen	
	FY2014	FY2015
Total Revenue	35,817	38,523
Total Expenditure	34,312	36,675
Net Assets	1,505	1,848

Grants and Philanthropy

	Millions of Yen	
	FY2014	FY2015
Grants	342	342
Philanthropy	1,037	925
Total	1,379	1,319

Notes: FY2014 (ended March 31, 2015); FY2015 (ended March 31, 2016)

As fractions were rounded up, the sum of the figures may not equal totals.

Cancer Institute Hospital

FY 2015 ended March 31, 2016

General Information

Beds	
General ward	665
ICU	10
Palliative care ward	25
Total	700

Staff (as of April 1, 2016)	
Doctors	359
Nurses	803
Medical Technologists	399
Administration and others	209
Total	1,770

Research

Academic Papers Published	
English	242
Japanese	234
Total	476

Surgery (FY2015)

Number of Surgery	
Gastroenterological Surgery	2,404
Gynecological Surgery	1,208
Breast Surgery	1,169
Urological Surgery	934
Orthopedic Surgery	605
Head and Neck Surgery	640
Plastic and Reconstructive Surgery	615
Thoracic Surgery	520
Others	314
Total	8,409

Patient Care (FY2015)

Outpatients	
Annual total outpatients	420,146
Daily average	1,729
Ambulatory Therapy Center	33,518

Inpatients	
Annual total inpatients	227,471
Daily average	622
Actual patients	11,209
Bed occupancy rate (%)	90.6
Average length of stay (day)	12.5

Surgeries	
Annual total	8,409
Surgery hours (total)	25,997

Radiation Therapy (cases)	41,947
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Ultrasound Examinations	61,054
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Image Diagnoses	233,925
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Pathological Diagnoses	
Total	26,203
Frozen diagnosis	3,874

Endoscopy	
Examinations	26,931
Treatments	3,620

Original Publications: 85 papers (2015), 99 papers (2014)

Research Groups

(as of April 1, 2016)	Groups	Staff Scientists and Assistants	Students
Cancer Institute	10	144	51
Cancer Chemotherapy Center	5	48	48
Genome Center	4	19	2

Featured Articles

Title Ablation of the p16INK4a tumour suppressor reverses ageing phenotypes of klotho mice (Nature Commun. 6: 7035, 2015)

Authors Sato, S., Kawamata, Y., Takahashi, A., Imai, Y., Hanyu, A., Okuma, A., Takasugi, M., Yamakoshi, K., Sorimachi, H., Kanda, H., Ishikawa, Y., Sone, S., Nishioka, Y., Ohtani, N. & Hara, E.

Summary In mutant mice homozygous for a hypomorphic allele of the α -klotho ageing-suppressor gene, ageing phenotypes are rescued by p16INK4a ablation. This is due to the restoration of α -klotho in kl(kl/kl) mice and does not occur when p16INK4a is ablated in α -klotho knockout mice.

Title Telomeric repeat-containing RNA/G-quadruplex-forming sequences cause genome-wide alteration expression in human cancer cells in vivo (Nucleic Acids Res. 43: 2022-2032, 2015)

Authors Hirashima, K. & Seimiya, H.

Summary Telomere erosion causes eventual cell aging or mortality. Paradoxically, cancer cells, which have replicative potential, often keep their telomeres shorter than normal cells. This paper reports that telomere elongation in cancer cells increases the telomeric non-coding RNA, called TERRA, resulting cancer-associated innate immune genes in vivo. The authors propose that TERRA from long counteract tumor malignancy, explaining why cancer cells often reduce their telomere length.

Awards

Naoya Fujita The Cancer Chemotherapy Center
Tsuruo Takashi Award of the Japanese Association for Molecular Target Therapy of Cancer; June 11, 2015

Yuka Okamoto Division of Genome Research of the Cancer Chemotherapy Center
Best Presentation Award, 2015 Annual Meeting of The Japanese Association for Molecular Target Therapy of Cancer; June 11, 2015

Ikuko Nagasawa Division of Genome Research of the Cancer Chemotherapy Center
Best Poster Presentation Award, 2015 Annual Meeting of The Japanese Association for Molecular Target Therapy of Cancer; June 11, 2015

Miho Jane Fuse Division of Experimental Chemotherapy of the Cancer Chemotherapy Center
Young Scientist Superior Oral Presentation Award; July 14, 2015

Ikuko Nagasawa Division of Genome Research of the Cancer Chemotherapy Center
Best Poster Presentation Award (Young Scientist Workshop of Scientific Support Programs for Cancer Research Grani-in-Aid for Research on Innovative Areas MEXT); September 5, 2015

Ryohei Katayama Division of Experimental Chemotherapy of the Cancer Chemotherapy Center
Japanese Cancer Association Incitement Award; October 10, 2015

Tetsuo Noda The Cancer Institute, Japanese Foundation for Cancer Research
The Tomizo Yoshida Prize; October 10, 2015

Makoto Ishihara Cancer Proteomics Group
The incentive award, The Japanese Society of Hematology; October 16, 2015

Kengo Takeuchi Pathology Project for Molecular Targets
The 52nd Erwin von Baelz Prize; November 24, 2015

Motoko Takahashi Division of Experimental Pathology
The best oral presentation award, The Molecular Biology Society of Japan; December 1, 2015

Rie Ouchi Division of Molecular Biotherapy of the Cancer Chemotherapy Center
Young Scientist Excellent Presentation Award (BMB2015 Biochemistry and Molecular Biology); December 4, 2015

Seminars

Date	Speaker	Affiliation	Title
Seminars			
2015/1/5	Yo-ichi Nabeshima	IBRI Laboratory, Foundation for Biomedical Research and Innovation	Klotho in health and disease
2015/1/21	Atsushi Kaneda	Department of Molecular Oncology, School of Medicine, Chiba University	Epigenomic alterations during gastroenterological tumor development
2015/2/5	Koji Ueda	Graduate School of Frontier Sciences, The University of Tokyo	Next generation diagnosis based on novel protein chemistry
2015/2/5	Osamu Nagano	Division of Gene Regulation, Institute for Advanced Medical Research, School of Medicine, Keio University	Novel strategy for cancer treatment based on antioxidant system activated by CD44v-xCT in cancer stem cell
2015/2/9	Kazuhiro Aoki	Research and Education Platform for Innovative Research on Dynamic Living Systems Based on Multi-dimensional Quantitative Imaging and Mathematical Modeling, Graduate School of Medicine, Kyoto University	Quantitative analyses of endogenous resistant factors for molecular target drugs by FRET imaging
2015/3/25	Subrata Sen	Department of Translational Molecular Pathology, UT M.D. Anderson Cancer Center	Circulating microRNAs in Plasma and Pancreatic Juice as Biomarkers of Pancreatic Cancer
2015/3/25	Ann Killary	Department of Translational Molecular Pathology, UT M.D. Anderson Cancer Center	A Pathways Approach to Biomarker Discovery in Breast and Pancreatic Cancer
2015/6/8	Tatsuya Sawasaki	Proteo-Science Center, Ehime University	Comprehensive analyses of protein interactions using cell-free human protein arrays
2015/6/22	Hiroyuki Takeda	Department of Biological Sciences, Graduate School of Science, The University of Tokyo	Epigenetic regulation of development
2015/6/30	Benjamin O. Anderson	University of Washington Seattle, Washington USA	Global Breast Cancer Control: Historical Landscape, Key Initiatives and Unmet Needs

Cutting-edge Research Seminars

2015/4/6	Claudia Krause	Molecular tumor Genetics and Immunogenetics, Max Delbrueck Center for Molecular Medicine Berlin	KSHV-vGPCR-induced miR-34a expression promotes genomic instability by a broad suppression of genome maintenance mechanisms
2015/4/7	Ichiro Nakano	The Ohio State University	Glioma stemness as a moving therapeutic target
2015/4/14	Motoshi Hayano	Glenn Labs for the Biological Mechanisms of Aging, Harvard Medical School	Evidence for an epigenetic cause of aging in mice
2015/5/13	Yoshimi Haga	Graduate School of Frontier Sciences, The University of Tokyo	Single cell imaging of disease-related carbohydrates and their quantitative analyses by MS
2015/7/1	Katsura Asano	Division of Biology, Kansas State University	Translational regulation by eIF-related protein, 5MP
2015/7/10	Shinpei Kawamoto	Laboratory for Mucosal Immunity, RIKEN Center for Integrative Medical Sciences	Regulation of enterobacteria by IgA and Foxp3+ T-cell
2015/7/31	Bungo Akiyoshi	Sir Henry Dale Fellow Department of Biochemistry University of Oxford United Kingdom	Understanding unconventional kinetochores
2015/11/6	Daisuke Takahashi	School of Advanced Science and Engineering, Waseda University	Mechanisms of repair of cross-linked bases by FAN1