

Thursday, June 6

Openi	ng Remarks	Jun 6 (Thu),15:00-15:05
	Hitoshi Nakagama	
Welco	me Address	Jun 6 (Thu),15:05-15:10
	Masanori Hatakeyama	
Keyno	te Lecture 1	Jun 6 (Thu), 15:10-15:50
	Chairperson: Hitoshi Nakagama	
K1	Somatic mosaicism and cancer Seishi Ogawa Department of Pathology and Tumor Biology, Institute for the Advanced Study of Human Biology (WPI-ASHBi), Kyo	
Sessio	on 1. Medical AI / Mathematical Simulation	Jun 6 (Thu), 15:50-17:05
	Chairperson: Akihide Yoshimi	
S1-1	Understanding Cancer Diversity by Quantitative Reshumpei Ishikawa ^{1,2} 1 Department of Preventive Medicine, Graduate School of Medicine, Tl 2 Division of Pathology, Exploratory Oncology Research & Clinical Tri	he University of Tokyo
S1-2	Integration of deep learning and mathematical metumor microenvironment Yasuhiro Kojima Natl. Cancer Center	
S1-3	Clinical applications of artificial intelligence: Al-poresearch Ryuji Hamamoto Division of Medical AI Research and Development, National Cancer Co	40
Welco	me Party (Presenter (oral & poster) only)	Jun 6 (Thu), 18:00-20:00



Friday, June 7

Keyno	te Lecture 2	Jun 7 (Fri), 9:00-9:40
	Chairperson: Shinji Kohsaka	
K2	Comprehensive genomic profiling, the foundation of profuture	
	Marc Ladanyi	
	Memorial Sloan Kettering Cancer Center New York, NY, USA	
Sessio	on 2. Epigenetic Regulation (1)	Jun 7 (Fri), 9:40-10:30
	Chairperson: Makoto Nakanishi	
S2-1	Therapeutic approaches for cancer and sarcoma targeti Akihide Yoshimi Division of Cancer RNA Research, National Cancer Center Research Institute	ng RNA binding proteins42
S2-2	Deciphering the mechanisms of cancer development dreevents	
	Daichi Inoue	44
	Department of Cancer Pathology, Graduate School of Medicine, Osaka University	ity
	10:30-10:40 Coffee Break	
Sessio	on 3. Epigenetic Regulation (2)	Jun 7 (Fri), 10:40-11:35
	Chairperson: Ryuji Hamamoto	<i>yan / (11)</i> // 10110 11135
S3-1	Unveiling long non-coding RNA as a novel therapeutic b	oullseve46
	Yutaka Kondo	Juniscyc
	Division of Cancer Biology, Nagoya University Graduate School of Medicine	
S3-2	Topological formation of transcriptional condensates recompartments	
	Won-Ki Cho	48
	Department of Biological Sciences, Korea Advanced Institute of Science & Tec	hnology (KAIST), Korea
Cossio	an A Precision Conser Medicine (1) Prevention	lun 7 /[ri:\ 11.25 12.20
262210	on 4. Precision Cancer Medicine (1) - Prevention - Chairperson: Mamiko Sakata-Yanagimoto	Jun 7 (Fri), 11:35-12:30
	·	
S4-1	Integrative analyses of environment, microbiota, immui medicine	
	Shuji Ogino	30
	Harvard University, Brigham and Women's Hospital, Broad Institute of MIT an	d Harvard
S4-2	New horizons of DNA adductome for exploring environg Yukari Totsuka	mental causes of cancer——52
	Department of Environmental Health Sciences Hoshi University	

Luncheon Seminar 1 Chairperson: Makoto Watanabe		Jun 7 (Fri), 12:40-13:20	
LS1	Liquid biomarkers for early diagnosis and risk stratific from exploratory research to clinical implementation, environment	focusing on the tumor-organ	
	Kazufumi Honda	30	
	Department of Bioregulation, Graduate School of Medicine, Nippon Medical	School	
Sessio	n 5. Cellular Senescence	Jun 7 (Fri), 13:30-14:50	
	Chairperson: Naoko Ohtani		
S5-1	Makoto Nakanishi		
	Division of Cancer Cell Biology, The Institute of Medical Science, The University	ersity of Tokyo	
S5-2	Alimonti Andrea ^{1,2,3,4,5} 1 Institute of Oncology Research (IOR), Bellinzona, Switzerland 2 Swiss Federal Institute of Technology (ETH), Zurich, Switzerland	56	
	 3 University of Italian Switzerland (USI), Lugano, Switzerland 4 Oncology Institute of Southern Switzerland, Ente Ospedaliero Cantonale, B 5 University of Padova (UNIPD), Padova, Italy 	dellinzona, Switzerland	
S5-3	Genetic dissection of cellular senescence in cancer and Tatsushi Igaki Graduate School of Biostudies, Kyoto University	d aging58	
	14:50-15:05 Coffee Break		
Sweet	s Seminar	Jun 7 (Fri), 15:05-15:45	
JWCCC	Chairperson: Keisuke Kataoka	Juli 7 (11), 13.03 13.43	
	Co-Sponsored: Oxford Nanopore Technologies plc.		
SS	Detection of previously undetected variants using lon Yuichi Shiraishi Division of Genome Analysis Platform Development, National Cancer Center		

Sessio	n 6. Tumor microenvironment (1)	Jun 7 (Fri), 15:55-17:10
	Chairperson: Daichi Inoue	
S6-1	Multi-layered transcriptional architecture of glioblas large scale-single nucleus RNA sequencing	Luciano Garofano ⁶ , Anna Lasorella ⁶ , L. Suvà ^{2,3} General Hospital and Harvard Medical School
S6-2	Immune cells derived from clonal hematopoiesis sha microenvironments Sakata-Yanagimoto Mamiko ^{1,2} 1 Department of Hematology, Institute of Medicine, University of Tsukuba 2 Division of Advanced Hemato-Oncology, Transborder Medical Research	62
S6-3	Genetic alterations and other environmental factors microenvironment Shohei Koyama ^{1,2} 1 Department of Immuno-genomic Medicine, Research Institute, National C 2 Department of Respiratory Medicine and Clinical Immunology, Osaka Ur Japan.	Cancer Center, Tokyo, Japan



Saturday, June 8

Sessio	n 7. Tumor Heterogeneity	Jun 8 (Sat), 9:00-10:45
	Chairperson: Shumpei Ishikawa, Noriko Gotoh	
S7-1	Strategic drug development using in vitro and in vitheterogeneity Shinji Kohsaka Division of Cellular Signaling, National Cancer Center Research Institute	66
S7-2	Heterogenous metastatic breast cancer stem cells re Noriko Gotoh Cancer Research Institute, Kanazawa University	eside in the metastatic niche——68
S7-3	Survival signaling of drug-tolerant persister cells ar resistance emergence Ryohei Katayama Div. of Experimental Chemotherapy, Cancer Chemotherapy Center, Japan	70
\$7-4	Non-mutagenic factors controlling the likelihood of smoker lung cancer Clare E. Weeden William Hill, Maria Zagorulya, Michelle Leung, Abigail MC Colley, Debe Eva Grönroos, Charles Swanton 10:45-10:55 Coffee Break	72
Keyno	te Lecture 3	Jun 8 (Sat), 10:55-11:35
	Chairperson: Yuki Kagoya	
К3	Immune-genomic analysis of immunosuppressive m microenvironment Hiroyoshi Nishikawa ^{1,2} 1 Division of Cancer Immunology, Research Institute / Exploratory Oncole National Cancer Center Japan 2 Department of Immunology, Nagoya University Graduate School of Med	ogy Research and Clinical Trial Center (EPOC),
Sessio	n 8. Tumor microenvironment (2)	Jun 8 (Sat), 11:35-12:30
	Chairperson: Ryohei Katayama	
S8-1	Tumor-promoting secretome from senescent CAFs in microenvironment Naoko Ohtani Department of Pathophysiology, Graduate School of Medicine, Osaka Me	74
S8-2	The gut and tumor microbiome as a novel biomarke patients with lung cancer and melanoma Arielle Elkrief Univ. of Montreal	

Lunch	eon Seminar 2	Jun 8 (Sat), 12:40-13:20
	Chairperson: Taka-Aki Sato	
	Co-Sponsored: iLAC Co., Ltd.	
LS2	Next-generation cfDNA methylation analysis usi metastatic urothelial carcinoma	
	Yoshiyuki Nagumo	32
	Department of Urology, University of Tsukuba, Japan	
Poster	Session (includes coffee break)	Jun 8 (Sat), 13:30-14:50
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	Chairperson: Yutaka Kondo, Shohei Koyama	
S9-1	Comprehensive genome profiling (CGP) for precional Kuniko Sunami Department of Laboratory Medicine, National Cancer Center Hospital	
S9-2	adenocarcinoma by prime editing	
	<u>David M. Walter</u> ^{1,2,3} , Katherine Cho ^{1,2} , Smruthy Sivakur 1 Dana-Farber Cancer Institute, Boston, MA, USA.	mar ⁴ , Matthew L. Meyerson ^{1,2,3}
	2 Broad Institute of Harvard and MIT, Cambridge, MA, USA. 3 Harvard Medical School, Boston, MA, USA 4 Foundation Medicine Inc., Boston, MA, USA	
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	Keisuke Kataoka Division of Hematology, Department of Medicine, Keio University S Division of Molecular Oncology, National Cancer Center Research In	
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	Division of Tumor Immunology, Institute for Advanced Medical Reso	earch, Keio University School of Medicine
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	Hitoshi Nakagama	



Poster Session

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	secreted ligands	86
	<u>Haruka Hirose</u> ¹ , Yasuhiro Kojima ² 1 Division of Computational and Systems Biology, Tokyo Medical and Dental Universi	tr. Ionan
	2 Laboratory of Computational Life Science, National Cancer Center Research Institute	
P1-2	Gene Expression Estimation from Histopathological Image w Transcriptomics on Semi-Supervised Learning Strategy	
	<u>Kazuya Nishimura</u> , Yasuhiro Kojima National Cancer Center, Japan	
P1-3	Integrated analysis of spatial transcriptome, genome, and his cancer	stopathology in gastric
	Kyohei Sano ¹ , Takumi Onoyama ^{1,2} , Daisuke Komura ¹ , Ayumu Tsubos. Hiroto Katoh ¹ , Tetsuo Ushiku ³ , Shumpei Ishikawa ^{1,4}	
	1 Department of Preventive Medicine, Graduate School of Medicine, The University of 2 Division of Gastroenterology and Nephrology, Faculty of Medicine, Tottori University 3 Department of Pathology, Graduate School of Medicine, The University of Tokyo	у
	4 Division of Pathology, National Cancer Center Exploratory Oncology Research & Cli	
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IIIVICCU	Andre Sim, Ying Chen, Min Hao Ling, Jönathan Goke	0)
	Genome Institute of Singapore (GIS), Agency for Science, Technology and Research (Agenome, Singapore 138672, Republic of Singapore	A*STAR), 60 Biopolis Street,
P1-5	Comparative Analysis of Retrieval-Augmented Generation in for Clinical Support in Cancer Gene Profiling Satoshi Takahashi 1,2, Takafumi Koyama³, Ken Takasawa¹,², Nobuji kot Yusuke Sakaguchi¹,2,5, Naoki Teraya¹,2,6, Norio Shinkai¹,2, Katsuji Take Ryuji Hamamoto¹,2 1 Division of Medical AI Research and Development, National Cancer Center Research 2 Cancer Translational Research Team, RIKEN Center for Advanced Intelligence Projes 3 Department of Experimental Therapeutics, National Cancer Center Hospital, Tokyo, J 4 Department of Surgery, Graduate School of Medicine, Kyoto University, Kyoto, Japas 5 Department of Neurosurgery, Graduate School of Medicine, The University of Tokyo 6 Department of Obstetrics and Gynecology, Showa University School of Medicine, To	uno ^{1,2,4} , Kenichi Ishizu ² , eda ² , Nobuaki Ishiguro ¹ , n Institute, Tokyo, Japan ct, Tokyo, Japan Japan
Poster	Session 2. Epigenetic Regulation	Jun 8 (Sat), 13:30-14:50
P2-6	A novel approach combining multi-omics data with clinical in molecular mechanisms underlying unmet needs lung adenoca Ken Asada ^{1,2} , Syuzo Kaneko ^{1,2} , Ken Takasawa ^{1,2} , Kouya Shiraishi ³ , Hi Yukihiro Yoshida ⁵ , Masami Mukai ⁶ , Norio Shinkai ^{1,2} , Yasushi Yatabe ⁷ , and Ryuji Hamamoto ^{1,2,8}	arcinoma patients ——91 idehito Horinouchi ⁴ , , Takashi Kohno ³ ,
	1 Cancer Translational Research Team, RIKEN Center for Advanced Intelligence Project 2 Division of Medical AI Research and Development, National Cancer Center Research 3 Division of Genome Biology, National Cancer Center Research Institute 4 Department of Thoracic Oncology, National Cancer Center Hospital 5 Department of Thoracic Surgery, National Cancer Center Hospital 6 Division of Medical Informatics, National Cancer Center Hospital 7 Department of Diagnostic Pathology, National Cancer Center Hospital 8 Department of NCC Cancer Science, Graduate School of Medical and Dental Science Tokyo Medical and Dental University	Institute
P2-7	Long noncoding RNA RP11-278A23.1, a potential modulator	of p53 tumor
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	Masashi Idogawa, Masayo Kamikokura, Shoichiro Tange, and Takash	
	Department of Medical Genome Sciences Cancer Research Institute, Sapporo Medical	University School of Medicine

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	 Dept. of Molecular Biology, Sapporo Medical Univ. Project for Cancer Epigenome, The Cancer Inst., JFCR Dept. of Pathology, Sapporo Medical Univ. Dept. of Medcal Genome Sciences, Research Institute of Frontier Medicine, Sapporo Medical Univ. Dept. of Gastroenterology and Hepatology, Sapporo Medical Univ.
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	Hiromu Suzuki ¹
	1 Dept. Mol. Biol., Sapporo Med. Univ., Sch. Med.
	2 Dept. Oral Surg, Sapporo Med. Univ., Sch. Med.3 Dept. OtoralyngolHead and Neck Surg., Sapporo Med. Univ., Sch. Med.
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	3 Department of Molecular Biology, Sapporo Medical University, Japan.
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	1 Department of Biological Sciences, Korea Advanced Institute of Science and Technology (KAIST)
	2 Department of Environmental Medical Biology, Institute of Tropical Medicine, Yonsei University College of Medicine
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	1 Med. Genome Sci., Cancer Res. Inst., Sapporo Med. Univ. 2 Biology, Medical Staff Dev. Center., Sappor Med. Univ.

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	1 Department of Advanced Transdisciplinary Sciences, Faculty of Advanced Life	e Science, Hokkaido University, Sapporo,
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	2 Department of Hematology, Institute of Medicine, University of Tsukuba, Japa 3 Department of Hematology, University of Tsukuba Hospital, Japan.	III.
	4Department of Hematology, Toranomon Hospital, Japan. 5Department of Computational Biology and Medical Sciences, Graduate Schoo	l of Frontier Sciences, The University of
	Tokyo, Japan. 6 Department of Hematology, NTT Medical Center Tokyo, Tokyo, Japan, Japan. 7 Division of Hematology/Oncology, Department of Internal Medicine, Kameda 8 Department of Pathology, Research Hospital, The Institute of Medical Science 9 Division of Advanced Hemato-Oncology, Transborder Medical Research Center	Medical Center, Japan. , The University of Tokyo, Japan.
P5-17	Exploration of glioma stem cell niches using hydrogel: T	he interaction between
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	Yusuke Shirai ¹ , Masumi Tsuda ^{1,2} , Lei Wang ^{1,2} , Yoshitaka Oda ¹ , Z 1 Department of Cancer Pathology, Faculty of Medicine, Hokkaido University, S 2 Institute for Chemical Reaction Design and Discovery (WPI-ICReDD), Hokka	Sapporo, Japan.
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	2 Institute for Frontier Science Initiative (InFiniti), Kanazawa University 3 Division of Systems Medicine and Gene Therapy, Research Center for Genom 4 Department of Breast Surgery, Minamimachida Hospital 5 Department of Breast & Endocrine Surgery, Graduate School of Medicine, Un 6 Department of Gastroenterological Surgery, Kanazawa University	•
	7 Department of Surgery, Division of Mammary Gland and Endocrine Surgery, 18 Department of Biochemistry and Systems Biomedicine, Juntendo university 9 Department of Molecular and Cellular Pathology, Kanazawa University 10 Teikyo University Advanced Comprehensive Research Organization 11 Division of Molecular Therapy, Institute of Medical Science, University of To	·
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	1 Hokkaido University, Japan 2 Fujita Health University, Japan	

Poster Session 6. Tumor Heterogeneity	Jun 8 (Sat), 13:30-14:50
P6-21 Multi-omics analysis of porokeratosis, a genetic tumo Aoi Ebata ^{1,2} , Kazuya Nishimura ¹ , Haruka Hirose ^{1,3} , Taichi Hib 1 Laboratory of Computational Life Science, National Cancer Center Researc 2 Department of Dermatology, Nagoya University Graduate School of Medic 3 Department of Computational and Systems Biology, Medical Research Insin Tokyo, Japan.	bi ^{1,3} , Yasuhiro Kojima ¹ ch Institute, Tokyo, Japana. cine, Nagoya, Japan.
P6-22 Exploring mechanisms and significance of fetal reproceeds by using synthetic hydrogel Fu Qiaochu ¹ , Masamichi Imajo ^{1,2} , Gong Jianping ^{2,3} , Shinya Ta 1 Department of Cancer Pathology, Faculty of Medicine, Hokkaido Universit 2 Institute for Chemical Reaction Design and Discovery (WPI-ICReDD), Ho 3 Soft & Wet Matter Science, Faculty of Advanced Life Science, Hokkaido University	anaka ^{1,2} ty, Sapporo, Japan. okkaido University, Sapporo, Japan.
P6-23 Establishing a <i>Drosophila</i> assay to determine the eff the formation of pancreatic cancer————————————————————————————————————	hi Haga², Masahiro Sonoshita¹ o University, Japan.
P6-24 A deep generative model for deciphering the relation and phenotypic heterogeneity Taichi Hibi ^{1,2,3} , Yasuhiro Kojima ² , Teppei Shimamura ^{1,3} 1 Nagoya University Graduate School of Medicine, Japan. 2 Laboratory of Computational Life Science, National Cancer Center Researce 3 Medical Research Institute, Tokyo Medical and Dental University, Japan.	109
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 P6-27 Screening of resistance mechanisms against T-cell med Masaru Yokomura 1,3, Seiji Nagano², Hiroshi Kawamoto², Taka 1 Division of Experimental Chemotherapy, Cancer Chemotherapy Center, Japan. 2 Institute for Life and Medical Sciences, Kyoto University. 3 Department of Head and Neck Surgery, Graduate School of Medical and Drokyo Medical and Dental University. 	ahiro Asakage ³ , Ryohei Katayama ¹ panese Foundation for Cancer Research,
P6-28 Identification of molecular marker in chemotherapy reusing Raman spectroscopy Zannatul Ferdous ¹ , Masumi Tsuda ^{1,2,4} , Jean-Emmanuel Cleme Tamiki Komatsuzaki ^{1,3} , Shinya Tanaka ^{1,2} 1 Institute for Chemical Reaction Design and Discovery (WPI-ICReDD), Ho 2 Department of Cancer Pathology, Faculty of Medicine, Hokkaido Universit 3 Research Centre of Mathematics for Social Creativity, Research Institute for 4 Graduate School of life science, Hokkaido University	ent ¹ , Yanpeng Sun ^{2,4} , Lei Wang ^{1,2} ,
P6-29 Cellular stress induces cell migration through the MKZ Yue Zhou, Ryota Oki, Akihiro Tanaka, Leixin Song, Atsushi T Satoru Yokoyama, Hiroaki Sakurai Department of Cancer Cell Biology, Faculty of Pharmaceutical Sciences, Uni	Γakashima, Naru Hamada,

Poster Session 3. Precision Cancer Medicine ~Prevention~	Jun 8 (Sat), 13:30-14:50
P3-30 Prevalence of family history of cancer in Japan Sarah Krull Abe¹, Hikaru Ihira¹,², Tetsuji Minami¹, Taiki Yamaji¹ Motoki Iwasaki¹, Manami Inoue¹ 1 National Cancer Center Institute for Cancer Control, Japan. 2 Sapporo Medical University, Japan.	
P3-31 Disparities and determinants of testing for early detection Nepalese women: evidence from a population-based sure Shafiur Rahman ^{1,2} , Mahfuzur Rahman ³ , Kiran Acharya ⁴ , Rei Hantomohiro Matsuda ⁷ , Manami Inoue ¹ , Sarah K Abe ¹ 1 Division of Prevention, National Cancer Center Institute for Cancer Control, Tour 2 Research Centre for Child Mental Development, Hamamatsu University School 3 Graduate School of Public Health, St. Luke's International University, Tokyo, Jane ERA, Kalopul, Kathmandu, Nepal. 5 Bureau of International Health Cooperation, National Center for Global Health 6 Cancer Surveillance Branch, International Agency for Research on Cancer, Lyon 7 Division of International Health Policy Research, National Cancer Center Institute of the National Cancer Center Institute of	rvey 116 ruyama ⁵ , Richa Shah ⁶ , okyo, Japan. ol of Medicine, Hamamatsu, Japan. Japan. and Medicine, Tokyo, Japan. on, France.
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P7-32 Eva1 antibody: a novel therapeutic antibody for glioblas Jiahui Hou¹, Mikako Shiramizu², Toshitada Takemori², Shigeru Yoru Kondo¹ 1 Department of stem cell biology, Institute for genetic medicine, Hokkaido Univ 2 Institute of physical and chemical research, Drug discovery and medical techno 3 Department of Neurosurgery, Graduate school of Medicine, Hokkaido University	Yamaguchi ³ , You Lee Son ¹ , versity.
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with potent effector functions Hitomi Kasuya, Yuki Kagoya Division of Tumor Immunology, Institute for Advanced Medical Research, Keio Japan.	
P7-34 Functional analysis of AT rich interaction domain 5a in g Shugo Tanaka ^{1,2} , Kazuya Hamada ² , Hiroyuki Kurosu ² , Issei Kaw Kensuke Nakazono ² , Sari Iwasaki ² , Satoshi Tanaka ² , Koji Tanigu 1 Department of Gastroenterology, Graduate School of Medicine, Hokkaido Unit 2 Department of Pathology, Faculty of Medicine and Graduate School of Medicine	vakita ² , Kentaro Kumagai ² , uchi ² versity, Japan.
P7-35 Comprehensive RNA profiling of lung adenocarcinoma in Yuki Terashima 1.2,3, Soohwan Park 1.4, Hiroshi Ikeuchi 1.4, Takuo F. Shinya Kojima 1, Toshihide Ueno 1, Masachika Ikegami 1, Rina Ki Shinya Tanaka 6, Kenji Suzuki 4, Hiroyuki Mano 1, Kazuya Takam 1 Div. of Cell. Signaling, NCCRI, Japan. 2 Dept. of Cancer Pathol., Grad. Sch. of Med., Hokkaido Univ., Japan 3 Hokkaido Univ. Hosp., Japan 4 Dept. of General Thoracic Surg., Sch. of Med., Juntendo Univ., Japan 5 Dept. of Human Pathol., Grad. Sch. of Med., Juntendo Univ., Japan 6 Dept. of Cancer Pathol., Faculty of Med., Hokkaido Univ., Japan	Iayashi ⁵ , Hiroshi Ikeuchi ^{1,4} , tada ¹ , Yoshiyuki Suehara ¹ ,
P7-36 Incidence of pathogenic germline variants and presume variants in Japanese lung cancer patients using compretests Michiko Ueki ¹ , Kousuke Watanabe ² , Momoko Morishita ¹ , Koki Hideaki Isago ² , Katsutoshi Oda ³ , Hidenori Kage ¹ 1 Department of Respiratory Medicine, The University of Tokyo Hospital, Tokyo, 2 Department of Clinical Laboratory, The University of Tokyo Hospital, Tokyo, 3 Department of Clinical Genomics, The University of Tokyo Hospital, Tokyo, Japanese Properties of Tokyo Hospital, Tokyo, Japanese	nensive genomic profiling 121 Fujii ¹ , Hiroaki Ikushima ¹ , p, Japan Japan

P7-37	A mitochondrial one-carbon enzyme MTHFD2 promotes breast cancer tumorigenesis and lung metastasis
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	Satoshi Kojo ⁴ , Hiroshi Watarai ⁴ , Tomoyoshi Soga ⁵ , Noriko Gotoh ¹
	1 Division of Cancer Cell Biology, CRI, Kanazawa University. 2 Division of Animal Disease Model, Research Center for Experimental Modeling of Human Disease. 3 Department of Cell Biology, Japanese Foundation for Cancer Research. 4 Department of Immunology and Stem Cell Biology, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University. 5 Institute for Advanced Biosciences, Keio University.
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	Yuko Cho ⁴ , Mikako Ogawa ³ , Atsushi Manabe ^{1,4}
	1 Department of Pediatrics, Graduate School of Medicine, Hokkaido University, Sapporo, Japan 2 Department of Pediatric Dentistry, Graduate School of Dental Medicine, Hokkaido University, Sapporo, Japan 3 Laboratory of Bioanalysis and Molecular Imaging, Graduate School of Pharmaceutical Sciences, Hokkaido University, Sapporo, Japan
	4 Department of Pediatrics, Hokkaido University Hospital, Sapporo, Japan