

Saturday, July 5

Openi	ing Remarks	July 5 (Sat),9:00-9:05
	Seishi Ogawa	
Welco	ome Address	July 5 (Sat),9:05-9:10
	Masanori Hatakeyama	·
Sessio	on 1. Gastrointestinal cancer	July 5 (Sat), 9:10-10:25
	Chairperson: Nobuyuki Kakiuchi	, , , , , , , , , , , , , , , , , , ,
S1-1	Emerging roles of IL-6 in gastrointestinal tumorigenesis Koji Taniguchi Department of Pathology, Faculty of Medicine and Graduate School of Medicin	
64.2		
S1-2	Understanding of GI cancers using organoid technology Toshiro Sato Keio University School of Medicine	28
S1-3		al cancer30
	Yoshikage Inoue ¹ , Nobuyuki Kakiuchi ¹ , Satoshi Nagayama ² , Sei 1 Department of Pathology and Tumor Biology, Graduate School of Medicine, F 2 Department of Gastroenterological Surgery, Uji Tokushukai Hospital	ishi Ogawa¹
	10:25-10:40 Coffee Break	
Keyno	ote Lecture 1	July 5 (Sat), 10:40-11:25
	Chairperson: Seishi Ogawa	
KL1	Somatic Evolution as a Lens into Human Biology and Dis	sease18
	Dan Landau New York Genome Center	
Sessio	on 2. Clonal Evolution of normal tissue	July 5 (Sat), 11:25-12:45
	Chairperson: Mamiko Sakata-Yanagimoto	24.y 2 (24.y) 11.122 12.13
S2-1	Clonal evolution in normal epithelium of the bronchi an Kenichi Yoshida Division of Cancer Evolution, National Cancer Center Research Institute	d bladder32
S2-2	,	34
JZ-Z	Jeong Ho Lee ^{1,2}	
	 Graduate School of Medical Science and Engineering, Korea Advanced Institu Daejeon, Korea. Sovargen Co. LTD., Daejeon, Korea 	ate Science and Technology (KAIST),
S2-3		
	- Cancer risk evaluation using somatic mosaicism in the Akira Yokoyama ¹ , Nobuyuki Kakiuchi ^{2,3}	buccal mucosa –36
	1 Department of Medical Oncology, Kyoto University Graduate School of Medi	cine, Kyoto, Japan
	2 The Hakubi Center for Advanced Research, Kyoto University, Kyoto, Japan3 Department of Gastroenterology and Hepatology, Graduate School of Medicin	ne, Kyoto University, Kyoto, Japan

Lunch	eon Seminar 1	July 5 (Sat), 12:45-13:30
	Chairperson: Taka-Aki Sato	
	Co-Sponsored: iLAC Co., Ltd. / Robotic Biology	/ Institute Inc. / Crecon Genomics Inc.
1.64	Challenge of January's a contract (DNA)	and all of an area of the most and the country of a first
LS1	Challenge of developing a custom cfDNA n	nethylation panel in metastatic urothelial
	Yoshiyuki Nagumo	
	Department of Urology, University of Tsukuba, Japan	
Specia	l Lecture	July 5 (Sat), 13:30-14:00
эрсск	Chairperson: Toshiro Sato	July 3 (30t), 13.30 14.00
CI	D. L.P. L. C. Markey Community	
SL	Publishing in <i>Nature</i> journals Safia Danovi	16
	Nature Genetics	
<u> </u>	2.11	1 5 (5 1) 44 00 44 50
Sessio	n 3. Hematological malignancies 1	July 5 (Sat), 14:00-14:50
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S3-1	Chromatin landscape and epigenetic heter	ogeneity of acute myeloid leukemia38
	Seishi Ogawa	
	Department of Pathology and Tumor Biology, Kyoto Univers	
S3-2	Spatial multiomics reveals distinct follicula Mamiko Sakata-Yanagimoto ^{1,2}	r T cell subsets in follicular lymphoma40
	1 Department of Hematology, Institute of Medicine, Universi	ty of Tsukuba
	2 Division of Advanced Hemato-Oncology, Transborder Med	ical Research Center, University of Tsukuba
	14:50-15:05 Coffee Break	
Sessio	n 4. Hematological malignancies 2	July 5 (Sat), 15:05-16:25
	Chairperson: Masahiro Nakagawa	
64.4	W. I	51 15 1 1
54-1	Whole-genome landscapes of 1,364 breast Young Seok Ju ^{1,2} , Ryul Kim ¹ , Jonghan Yu ³ , Jeong	
	1 Inocras Inc., San Diego, USA	inni Lee , Teon fice Lark
	2 Korea Advanced Institute of Science and Technology, Daejo 3 Samsung Medical Center, Seoul, Korea	eon, Korea
	4 Seoul St Mary's Hospital, Seoul, Korea	
S4-2	Heterogeneous breast cancer cells leverage	e bone marrow cell plasticity at the single-
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	Noriko Gotoh Cancer Research Institute, Kanazawa University	
S4-3	Variation of Centromere and its Impact on	Cancer Translocation 46
	Yuichi Shiraishi	
	Division of Genome Analysis Platform Development, Nation	al Cancer Center Research Institute
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Sunday, July 6

Session	n 5. Hematological maligna	incies 3	July 6 (Sun), 9:00-10:20
	Chairperson: Motohi	iro Kato	
S5-1	Christian Steidl ^{1,2} 1 Centre for Lymphoid Cancer, Bo	C Cancer, Vancouver, Canad	eveloping in the Thymic Niche48 a ity of British Columbia, Vancouver Canada
S5-2	1	•	gh-Risk Subtype of EBV-Positive NK Cell
33-2	_	-	50
	Junko Takita Department of Pediatrics, Gradua	te School of Medicine, Kyot	o University
S5-3	Genetic and Functional	•	
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	Jyoti Nangalia Wellcome Sanger Institute Wellc Department of Haematology Uni Cambridge Stem Cell Institute Je	iversity of Cambridge UK	'
	11:05-11:15	Coffee Break	
Session	n 6. Cancer environment		July 6 (Sun), 11:15-12:30
	Chairperson: Masahi	iro Sonoshita	·
S6-1	Kyoko Hida		cell abnormality in cancer progression54 y Faculty of Dental Medicine, Sapporo, Japan
S6-2	steatotic liver cancer de Naoko Ohtani	evelopment	mor microenvironment facilitates
S6-3	Systemic communication Integrating tumor signal Ayuko Hoshino Research Center for Advanced Sc	atures, aging, and pr	e-metastatic niche formation58

Lunch	eon Seminar 2	July 6 (Sun), 12:30-13:15
	Chairperson: Akira Watanabe	
	Co-Sponsored: CyberomiX Inc.	
LS2	Deciphering the Mechanisms of Brain Tumor Dev	
	Hiromichi Suzuki	
	Division of Brain Tumor Translational Research, National Cancer Ce	enter Research Institute
 Sessio	n 7. Spatial omics	July 6 (Sun), 13:15-14:30
	Chairperson: Genta Nagae	
S7-1	Spatially-resolved transcriptomic characterization states in lung cancers Ayako Suzuki Graduate School of Frontier Sciences, The University of Tokyo	_
S7-2	Quantitation and diversity evaluation of genomic Shumpei Ishikawa ^{1,2} 1 Department of Preventive Medicine, Graduate School of Medicine, 2 Division of Pathology, Exploratory Oncology Research & Clinical	The University of Tokyo
S7-3	Supersulfides and Cancer Malignancy Hozumi Motohashi Department of Medical Biochemistry, Tohoku University Graduate S	



Poster Session

Poster	Poster Session July 5 (Sat), 16:25-17:40	
P-01	A possible pitfall in variant analysis using hg19-based sequencing tools	
P-02	Genomic Landscape of Newly Diagnosed Adult Acute Lymphoblastic Leukemia	
P-03	Rapid liquid biopsy using nanopore sequencer identified clinically relevant genome alterations of neuroblastoma	
P-04	Splicing Junction-based Classifier for Detecting Abnormal KEAP1-NRF2 System Activation	
P-05	Repertories of Non-coding Drivers in Myeloid Neoplasms Delineated by Whole Genome Sequencing	
P-06	Tumor Microenvironment Heterogeneity in MASLD/MASH-associated HCC Revealed by Subtype-specific Intercellular Network Analysis	
P-07	A synthetic hydrogel scaffold highlighting colorectal cancer plasticity driven by mechanotransduction pathways	
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	Yasunori Ota ⁸ , Shigeru Chiba ² , Miwako Kakiuchi ⁹ , Shumpei Ishikawa ⁹ , Yutaka Suzuki ⁵ ,		
	Mamiko Sakata-Yanagimoto ^{1,2,3,10}		
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	4 Department of Hematology, Toranomon Hospital, Japan.5 Department of Computational Biology and Medical Sciences, Graduate School 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 Medical Center, Japan.		
	8 Department of Pathology, Research Hospital, The Institute of Medical Science, The University of Tokyo, Japan. O Department of Properties Medicine, Conducto School of Medicine, The University of Tokyo, Tokyo, Japan.		
	9 Department of Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan. 10 Division of Advanced Hemato-Oncology, Transborder Medical Research Center, University of Tsukuba, Japan.		
P-10	Spatially resolved single-cell transcriptomics reveals epithelial diversity and		
	subtype-specific microenvironments in gastric cancer		
	Ayumu Tsubosaka ¹ , Kyohei Sano ¹ , Miwako Kakiuchi ¹ , Daisuke Komura ¹ , Hiroto Katoh ² ,		
	Tetsuo Ushiku³, Shumpei Ishikawa¹,²		
	1 Department of Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan		
	2 Division of Pathology, Exploratory Oncology Research & Clinical Trial Center, National Cancer Center, Japan 3 Department of Pathology, Graduate School of Medicine, The University of Tokyo, Japan		
P-11	Single-cell spatial transcriptomic analysis reveals the extranodal niche of T-cell		
	lymphomas		
	Yuri Tsuboi ^{1,2} , Sakurako Suma ² , Yuki Shimizu ^{1,2} , Kenichi Makishima ² , Yasuhito Suehara ^{2,3} ,		
	Tatsuhito Sakamoto ^{2,3} , Atsushi Uehara ^{2,4} , Daisuke Kaji ⁵ , Kyohei Sano ⁶ , Ayumu Tsubosaka ⁶ ,		
	Yoshiyuki Nakamura ⁷ , Kosei Matsue ⁴ , Yasunori Ota ⁸ , Miwako Kakiuchi ⁶ , Shumpei Ishikawa ⁶ ,		
	Mamiko Sakata-Yanagimoto ^{2,3,9}		
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	3 Department of Hematology, Institute of Medicine, University of Tsukuba, Japan 4 Division of Hematology, Open Japan Department of Hematology, Vomedo Medical Contact Japan		
	4 Division of Hematology/Oncology, Department of Hematology, Kameda Medical Center, Japan 5 Department of Hematology, Toranomon Hospital, Japan		
	6 Department of Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan 7 Department of Dermatology, Institute of Medicine, University of Tsukuba, Japan		
	8 Department of Pathology, The Institute of Medical Science, The University of Tokyo, Japan		
	9 Division of Advanced Hemato-Oncology, Transborder Medical Research Center, University of Tsukuba, Japan		
P-12	Spatial Transcriptomics Exploring Mechanisms Driving Glioblastoma Invasion		
	Takahiro Yamamoto ² , Hiroaki Matsuzaki ² , Yuki Takeshima ² , Daiki Yoshii ⁵ , Mariko Kikuchi ¹ , Daisuke Komura ¹ , Hiroto Katoh ⁶ , Hiroyuki Uetani ⁷ , Mihoko Setoguchi ⁸ , Yuta Nakagawa ² ,		
	Kazumasa Nakamizo ⁹ , Hiroshi Sadanaga ⁹ , Noboru Ohshita ⁹ , Yosuke Kitagawa ³ ,		
	Hirokazu Takami ³ , Naoki Shinojima ² , Yoshiki Mikami ⁴ , Toshinori Hirai ⁷ , Nobuhito Saito ³ ,		
	Akitake Mukasa ² , Shumpei Ishikawa ^{1,6}		
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	2 Department of Neurosurgery, Graduate School of Medical Sciences, Kumamoto University, Japan.3 Department of Neurosurgery, Graduate School of Medicine, The University of Tokyo, Japan.		
	4 Department of Diagnostic Pathology, Kumamoto University Hospital, Japan. 5 Department of Call Pathology, Conductor School of Medical Sciences, Kymamoto University, Japan.		
	5 Department of Cell Pathology, Graduate School of Medical Sciences, Kumamoto University, Japan. 6 Division of Pathology, Exploratory Oncology and Clinical Trial Center, National Cancer Center, Japan.		
	7 Department of Diagnostic Radiology, Graduate School of Medical Sciences, Kumamoto University, Japan. 8 Department of Pathology, Shimonoseki Medical Center, Japan.		
	9 Department of Neurosurgery, Shimonoseki Medical Center, Japan.		
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	<u>Lei Wang</u> ^{1,2} , Tianyue Zhai ³ , Masumi Tsuda ^{1,2} , Hidemichi Watari ³ , Shinya Tanaka ^{1,2}		
	1 Department of Cancer Pathology, Faculty of Medicine, Hokkaido University, Sapporo, Japan		
	2 World Premier International Research Center Initiative, Institute for Chemical Reaction Design and Discovery (WPI-ICReDD), Hokkaido University, Sapporo, Japan 3 Department of Obstetrics and Gynecology, Faculty of Medicine, Hokkaido University, Sapporo, Japan		

P-14	RNA-seq analyses revealed Nucleophosmin 1 as a potential New target gene for LRRFIP1/GCF2 Transcriptional Repressor
	Graduate School of Health Science, Faculty of Health Science, Japan Health University.
P-15	Mitochondrial one-carbon metabolic enzyme MTHFD1L is a novel molecular target for breast cancer
	Hirokazu Kusunoki ¹ , Tsunaki Hongu ¹ , Tatsunori Nishimura ^{1,2} , Yasuto Takeuchi ¹ , Koji Okamoto ³ , Noriko Gotoh ¹
	1 Division of Cancer Cell Biology, Cancer Research Institute, Kanazawa University, Japan. 2 Division of Cancer Biology, Graduate School of Medicine, Nagoya University, Japan. 3 Advanced Comprehensive Research Organization, Teikyo University, Japan.
P-16	Development of a Bispecific T-cell engager (BiTE) antibody HLA-A2/Claspin Peptide Complex for Platinum-Resistant Cancer
	Yuka Mizue, Tomohide Tsukahara, Takayuki Kanaseki, Terufumi Kubo, Kenji Murata, Toshihiko Torigoe, Yoshihiko Hirohashi
	Department of Pathology, Sapporo Medical University School of Medicine, Japan.
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	Tomohide Tsukahara ⁵ , Yoshihiko Hirohashi ⁵ , Kohei Kumegawa ⁴ , Masahiro Kai ¹ , Hiroshi Nakase ² and Hiromu Suzuki ¹
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P-18	Dual inhibition of GPx4 and MEK suppresses pancreatic ductal adenocarcinoma by
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	Divison of Biomedical Oncology, Institution for Genetic Medicine, Hokkaido University, Japan.
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P-20	Tumor-associated antigen autoantibody complexes in ovarian cancer
	 Kotaro Sugimoto¹, Makoto Kobayashi², Hideki Chiba³ 1 Dept of Pathology, Sapporo Medical University School of Medicine, Sapporo, Japan. 2 Dept of Basic Pathology, Fukushima Medical University School of Medicine, Fukushima, Japan.
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	Erika Akahori ^{1,2} , Yu Li ¹ , Nako Maishi ¹ , Aya Matsuda ¹ , Akira Hasebe ³ , Yasuhiro Hida ^{4,5} , Ikuya Miyamoto ² , Kyoko Hida ¹
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	5 Department of Advanced Thoracic Surgery, School of Medicine, Fujita Health University, Nagoya, Aichi, Japan.

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	Medicine 3 Institute of Preventive Genomic Medicine, School of Life Sciences, Northwest University, China 4 Quantum Immunology Team, National Institutes for Quantum Science and Technology (QST) 5 Division of Molecular Neuroimmunology, National Institute for Physiological Sciences
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	<u>Haruka Handa</u> ¹ , Yasuhito Onodera ² , Tsukasa Oikawa ³ , Koji Ueda ⁴ , Daiki Setoyama ⁵ , Takashi Yokota ⁶ , Hisataka Sabe ³ , and Masaaki Murakami ^{1,7,8}
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	3 Molecular Biology, Graduate School of Medicine, Hokkaido University, Japan
	4 Japanese Foundation for Cancer Research, Japan
	5 Clinical Chemistry and Laboratory Medicine, Kyushu University, Japan 6 Hokkaido University Hospital, Japan
	7 Quantum Immunology Team, Institute for Quantum Science and Technology, Japan
	8 Division of Molecular Neuroimmunology, National Institute for Physiological Sciences, Japan
P-24	ARID5A promotes colorectal cancer progression via YAP and STAT3 pathways89 Rino Saito, Kazuya Hamada, Kensuke Nakazono, Shugo Tanaka, Sari Iwasaki, Satoshi Tanaka, Koji Taniguchi Department of Pathology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Hokkaido, Japan.
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	Akira Yorozu ¹ , Kenichi Takano ¹ , Hiromu Suzuki ²
	1 Dept. OtolaryngolHead and Neck Surg., Sapporo Med. Univ. Sch. Med., Japan. 2 Div. Mol. Biol., Dept. Biochem., Sapporo Med. Univ., Japan.
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	<u>Dou Shenshen,</u> Toru Kondo
	Division of Stem Cell Biology, Institute for Genetic Medicine, Hokkaido University, Sapporo 060-0815, Japan.