Program

Day 1 November 18th (Mon)

Noon –	Registration (ACROS Fukuoka 4F)
14:00 - 18:30	Opening Remarks, Plenary lecture and Session 1-3
19:00 - 21:00	Welcome Reception (Hotel The Lively Fukuoka Hakata, Banquet Rooms)

Day 2 November 19th (Tue)

8:30 - 12:01	Session 4-6
12:01 - 14:00	Group Photo Shooting, Lunch, and Free Discussion
14:00 - 17:24	Session 7-9
17:30 - 19: 30	Poster Session 1
	Odd numbers: 17:30-18:30
	Even numbers 18:30-19:30

Day 3 November 20th (Wed)

8:30 - 12:04	Session 10-12
12:25 - 18:15	Lunch and Excursion
19:00 - 21:00	Banquet (Nishitetsu Grand Hotel, 2F, Banquet Room)

Day 4 November 21st (Thu)

8:30 - 12:04	Session 13-15
12:04 - 14:00	Lunch and Free Discussion
14:00 - 17:24	Session 16-18
17:30 - 19: 30	Poster Session 2
	Odd numbers: 17:30-18:30
	Even numbers 18:30-19:30

Day 5 November 22nd (Fri)

8:30 - 11:50	Session 19-20
11:50 - 12:00	Poster Awards and Closing Remarks

Day 1 (18 Nov. 2024)

12:00-	Registration (ACROS Fukuoka 4F)
14:00-14:15	Opening remarks
14:15-14:45	Plenary lecture
	A Central Role for Okazaki Fragments in Checkpoint-Dependent Replication Fork Stabilisation
	Agostina Bertolin ^{1,2} , Berta Canal ^{1,2} , John Diffley ¹
	¹ The Francis Crick Institute ² equal contribution, alphabetically listed by surname
14:45-15:45	Session 1 (Chairs: Yasunori Noguchi & John Diffley)
14:45-15:05	Session 1-1
17.75-15.05	TRESLIN-MTBP defines the initiation zones of DNA replication in human cells
	Xiaoxuan Zhu ¹ , Atabek Bektash ^{1,2} , Yuki Hatoyama ^{1,2} , Sachiko Sakamoto ¹ , Chun-Long Chen ⁴ , Yasukazu Daigaku ⁵ , <u>Masato Kanemaki^{1,2,3}</u>
	¹ National Institute of Genetics, ² SOKENDAI, ³ The University of Tokyo, ⁴ Institut Curie, ⁵ Cancer Institute of JFCR
15:05-15:25	Session 1-2
	Regulation of replication timing and chromatin architecture by nuclear membrane tethering of Rif1
	<u>Hisao Masai</u> ¹ , Tomohiro Iguchi ¹ , Sayuri Ito ¹ , Naoko Kakusho ¹ , Asako Sakaue-Sawano ² , Asami Oji ³ , Hisasshi Miura ³ , Mikihiro Shibata ⁴ , Masatoshi Takagi ² , Izumi Noda ² , Kenji Moriyama ¹ , Ichiro HIratani ³ , Atsushi Miyawaki ² , Hiroyuki Sasanuma ¹
	¹ Tokyo Metropolitan Institute of Medical Science, ² Biotechnological Optics Research Team, RAP, RIKEN, ³ RIKEN Center for Biosystems Dynam Res, Lab for Dev Epigenet, ⁴ Kanazawa University, NanoLSI, Kanazawa, Japan
15:25-15:45	Session 1-3
	Interactions between replication origins and transcription
	<u>Marie-Noelle Prioleau</u> ¹ , Caroline Doncarli ¹ , Juliette Mandelbrojt ¹ , Jeremy Poulet- Benedetti ¹ , Theo Baret ¹
	¹ University Paris Cité, CNRS, Institut Jacques Monod
15:45-16:05	Coffee break
16 05 17 25	
16:05-17:35	Session 2(Chairs: Shin-ichiro Hiraga & Huilin Li)
16:05-16:25	Session 2-1
	Cryo-EM Reveals How DNA-Encircling Rings Are Loaded and Unloaded by ATPase machines
	Huilin Li ¹
	¹ Van Andel Institute

16:25-16:45	Session 2-2
	Flexible usage of diverse DNA polymerases and its implications for mutagenesis
	Lewis Bainbridge ² , Yuji Masuda ¹ , Mami Takahashi ² , Tamiko Minamisawa ² , Chikahide
	Masutani ¹ , <u>Yasukazu Daigaku</u> ²
	¹ Research Institute of Environmental Medicine, Nagoya University, ² Cancer Institute,
	Japanese Foundation for Cancer Research
16:45-17:05	Session 2-3
	CFAP20 salvages arrested RNAPII from the path of co-directional replisomes
	Martijn Luijsterburg ¹
	¹ Leiden University Medical Center, Leiden, The Netherlands
17:05-17:15	Session 2-4
	Identification of atypical replication origin in the metallothionein-encoding repeats in the budding yeast Saccharomyces cerevisiae
	<u>Seiji Tanaka¹</u>
	¹ School of Engineering Science, Kochi University of Technology
17:15-17:25	Session 2-5
	The structure-specific nuclease Rad27/FEN-1 maintains the stability of the ribosomal RNA gene locus.
	Mariko Sasaki ¹
	¹ National Institute of Genetics
17:25-17:35	Session 2-6
17.25 17.55	When DNA becomes its own enemy: Reconstitution of DNA-induced replication
	stalling
	<u>Gideon Coster¹</u> , Sophie Williams ^{1,2} , Corella Casas-Delucchi ¹ , Manuel Daza-Martin ^{1,3} ,
	Federica Raguseo ^{4,5} , Dilek Guneri ⁶ , Yunxuan Li ⁷ , Masashi Minamino ² , Emma Fletcher ⁸ , Joseph Yeeles ⁸ , Ulrich Keyser ⁷ , Waller Zoë ⁶ , Marco Di Antonio ^{2,4,5}
	¹ The Institute of Cancer Research, London, UK, ² The Francis Crick Institute, London,
	UK, ³ IPBLN, Gradana, Spain, ⁴ Chemistry Department, Imperial College London,
	MSRH, London, UK, ⁵ Institute of Chemical Biology, MSRH, London, UK, ⁶ UCL,
	School of Pharmacy, London, UK, ⁷ Cavendish Laboratory, University of Cambridge,
	Cambridge, UK, ⁸ MRC Laboratory of Molecular Biology, Cambridge, UK
17:35-17:45	Short break
17.33-17.33	Short oreak
17:45-18:30	Session 3 (5-min Short talks)
17:45-17:50	Session 3-1
	Strand asymmetry of DNA damage tolerance mechanisms
	Juan Carlos Martínez-Cañas ¹ , Dolores Jurado-Santiago ² , Mohammed al Mamun ² ,
	Esther Morafraile ² , María Sacristán ¹ , Katsuhiko Shirahige ³ , Avelino Bueno ¹ , <u>Rodrigo</u>
	Bermejo ²

	¹ Cancer Molecular and Cellular Biology Institute (USAL-CSIC), ² Margarita Salas Center for Biological Research (CIB-CSIC), ³ Research Center for Epigenetic Disease, University of Tokyo
17:50-17:55	Session 3-2
	Single-molecule analysis of uncharacterised DNA replication initiation sites using Nanopore sequencing technology
	<u>Shin-ichiro Hiraga</u> ¹ , Alexandra Pyatnitskaya ¹ , Anna Rogers ² , Sathish Thiyagarajan ² , Conrad Nieduszynski ² , Anne Donaldson ¹
	¹ Institute of Medical Sciences, University of Aberdeen, UK, ² Earlham Institute, Norwich, UK
17:55-18:00	Session 3-3
	R-loop Resolution by ARIP4 Helicase Promotes Androgen-dependent Transcription Induction
	Raissa Regina Ng ¹ , Zhongyang Lin ² , Yanmin Zhang ¹ , Shih Chieh Ti ¹ , Asif Javed ¹ , Jason Wing Hon Wong ¹ , Qingming Fang ³ , Justin Wai Chung Leung ⁴ , Alex Hin Ning Tang ⁵ , <u>Michael Shing Yan Huen¹</u>
	¹ The University of Hong Kong
18:00-18:05	Session 3-4
	DNA replication will not be required for ROS accumulation after chromosome breakages in E. coli.
	<u>Akihiro Kaidow¹</u>
	¹ Dept. Biol., Tokai Univ.
18:05-18:10	Session 3-5
	Visualization of DNA replication errors in living Escherichia coli cells
	Ivan Matic ¹
	¹ Institut Cochin, Paris, France
18:10-18:15	Session 3-6
	Top3 drives crossover migration to the meiotic chromosome axis
	Matthew Neale ^{1,2} , Tom Powell ^{1,2} , William H Gittens ^{1,2}
	¹ Genome Damage and Stability Centre, ² University of Sussex, UK
18:15-18:20	Session 3-7
	Spatial control of the APC/C ensures the rapid degradation of Cyclin B1
	Luca Cirillo ¹ , Rose Young ¹ , Sapthaswaran Veerapathiran ¹ , Annalisa Roberti ¹ , Catherine Coates ¹ , Reyhan Muhammad ¹ , Theodoros Roumeliotis ¹ , Jyoti Choudhary ¹ , Claudio Alfieri ¹ , Jonathon Pines ¹
	¹ ICR
18:20-18:25	Session 3-8
	Rad54 prevents excessive intergenerational Rad51 aggregation in fission yeast
	Goki Taniguchi ¹ , May Alexander ¹ , Hiroshi Iwasaki ¹ , <u>Hideo Tsubouchi¹</u>
	¹ Tokyo Institute of Technology
18:25-18:30	Session 3-9

Pre-RC forming proteins commonly have G-quadruplex binding activity in the intrinsically disordered regions
Shou Waga¹, Minami Takano¹, Chisa Nishio¹, Kana Hosono¹, Yuna Akiniwa¹, Chiho Shioda¹
¹Dpt. of Chem. and Biol. Sci., Japan Women's University

19:00-21:00 Reception (The Lively Fukuoka Hakata, Banquet Rooms 1F&2F)

Day 2 (19 Nov. 2024)

8:30-10:10	Session 4 (Chairs: Shogo Ozaki & Suckjoon Jun)
08:30-08:50	Session 4-1
	Specific mechanisms of the initiation complexes for bidirectional loading of DnaB helicases and a novel role for the DNA-bending nucleoid protein IHF in replication cycle regulation
	<u>Tsutomu Katayama¹, Shogo Ozaki¹, Kazutoshi Kasho¹, Hironori Kawakami^{1,2}</u>
	¹ Kyushu Univ., Grad. Sch. of Pharm. Sci., Depart. of Mol. Biol., ² (Present) Sanyo-Onoda City Univ., Fac. of Pharm. Sci.
08:50-09:10	Session 4-2
	Dispensability of extrinsic DnaA regulators in Escherichia coli cell-cycle control
	Thias Oberg Boesen ^{1,3} , Godefroid Charbon ^{2,3} , Haochen Fu ^{1,3} , Cara Jensen ¹ , Michael Sandler ¹ , <u>Suckjoon Jun</u> ¹ , Anders Løbner-Olesen ²
	¹ University of California San Diego, ² University of Copenhagen, ³ These authors contributed equally to this work.
09:10-09:30	Session 4-3
	Profiling a single-stranded DNA region within predicted G-quadruplexes in the E. coli and B. subtilis genome
	Yano Koichi ¹ , Akiyama Koichiro ^{1,2} , Muraoka Masafumi ² , <u>Hironori Niki²</u>
	¹ Rikkyo University, ² National Institute of Genetics
	Withdrawal
09:30-09:40	Session 4-5
	Genome replication in asynchronously growing microbial populations
	Simone Pigolotti ¹
	¹ Okinawa Institute of Science and Technology
09:40-09:50	Session 4-6
	Molecular mechanism of bacterial cytokinesis position control by the Min system helping stable chromosome maintenance
	Michiyo Mizuuchi ¹ , Min Li ¹ , Jagat Budhathoki ¹ , William Carlquist ¹ , <u>Kiyoshi Mizuuchi¹</u> ¹ National Institutes of Health USA
09:50-10:00	Session 4-7
	Cytidine deaminases promote DNA replication stress resistance in pancreatic cancer cells
	Tajinder Ubhi ¹ , Olga Zaslaver ¹ , Andrew Quaile ¹ , Dennis Plenker ² , Nhu-An Pham ³ , Angela Bekesi ⁴ , Jason Moffat ¹ , Steven Gallinger ³ , Beata Vertessy ⁴ , David Tuveson ² , Hannes Rost ¹ , <u>Grant Brown¹</u> ¹ University of Toronto, ² Cold Spring Harbor Laboratory, ³ Princess Margaret Cancer
	Centre, ⁴ BME Budapest University of Technology and Economics, ⁵ Ontario Institute for Cancer Research

10:00-10:30 Coffee break

10:30-11:40	Session 5 (Chairs: Yasukazu Daigaku & Evi Soutoglou)
10:30-10:50	Session 5-1
	Cryo-EM structures and functions of the RAD51 paralog complexes
	Stephen West ¹
	¹ The Francis Crick Institute
10:50-11:00	Session 5-2
	RAD51 paralogs travel with the replicative helicase to facilitate lesion bypass
	Adeola Fagunloye ¹ , Alessio De Magis ² , Jordan Little ³ , Isabel Contreras ¹ , Braulio Bonilla ⁴ , Nathan Clark ³ , <u>Katrin Paeschke²</u> , Kara Bernstein ¹
	¹ University of Pennsylvania School of Medicine, ² University Hospital Bonn, ³ University of Utah, ⁴ University of Pittsburgh School of Medicine
11:00-11:20	Session 5-3
	How 3D genome organization guides homology-directed DNA repair
	Federico Teloni ¹ , Zsuzsanna Takacs ¹ , Christoph C. H. Langer ¹ , Inès Prlesi ¹ , Thomas Steinacker ¹ , Wen Tan ² , Jan-Michael Peters ² , <u>Daniel Gerlich¹</u>
	¹ IMBA, Vienna BioCenter, ² IMP, Vienna BioCenter
11:20-11:30	Session 5-4
	Visualizing homology search during DNA double-strand break repair in yeast
	Aoi Makita ¹ , Suzuka Hoshino ² , Masahiko Harata ^{1,2} , Chihiro Horigome ^{1,2}
	¹ Tohoku University, Graduate School of Agricultural Science, ² Tohoku University, Faculty of Agriculture
11:30-11:40	Session 5-5
	ATM and 53BP1 regulate alternative end joining-mediated V(D)J recombination
	Jinglong Wang ¹ , Cheyenne Sadeghi ¹ , Long Le ¹ , Marie Le Bouteiller ¹ , <u>Richard Frock</u> ¹ ¹ Stanford University
11:40-12:01	Session 6 (3-min Short talks)
11:40-11:43	Session 6-1
	DPPA3 Disrupts UHRF1 Chromatin Localization by Targeting the SRA Domain
	<u>Atsuya Nishiyama</u> ² , Tanimoto Shota ² , Chiba Yoshie ² , Sugimura Keita ² , Ota Ayana ² , Arita Kyohei ¹ , Makoto Nakanishi ²
	¹ Yokohama City University, ² The University of Tokyo
11:43-11:46	Session 6-2
	Contribution of translesion synthesis for mutagenesis via a novel food-induced formamidopyrimidine-derivative
	<u>Jun-ichi Akagi</u> ¹ , Masayuki Yokoi ² , Yumi Miyake ³ , Tsuyoshi Shirai ⁴ , Tomohiro Baba ⁵ , Kohei Matsushita ¹ , Fumio Hanaoka ^{2,6} , Kaoru Sugasawa ² , Shigenori Iwai ⁵ , Kumiko Ogawa ¹

	 ¹Div. of Pathology, Natl. Inst. of Health Sciences, ²Biosignal Res. Ctr., Kobe Univ., ³Forefront Res. Ctr., Grad. Sch. of Sci., Osaka Univ., ⁴Dept. of Bioscience, Nagahama Inst. of Bio-Sci. and Tech., ⁵Grad. Sch. of Eng. Sci., Osaka Univ., ⁶Natl. Inst. of Genetics
11:46-11:49	Session 6-3
	Phenotypic sex determines recombination patterning in sex-reversed Rainbow Trout
	Cathrine Brekke ¹ , Tim Martin Knutsen ²
	¹ Faculty of Bioscience, Norwegian University of Life Sciences, ² Aquagen, Ås, Norway
11:49-11:52	Session 6-4
	Large-scale conservation of genomic architecture between distant species
	Rory Cerbus ² , Kyogo Kawaguchi ^{1,2,3,4} , Ichiro Hiratani ²
	¹ RIKEN Cluster for Pioneering Research, ² RIKEN Center for Biosystems Dynamics Research (BDR), ³ Institute for Physics of Intelligence, The University of Tokyo, ⁴ Universal Biology Institute, The University of Tokyo
11:52-11:55	Session 6-5
	Altering DNA replication timing interferes with the precision of epigenome
	maintenance
	<u>Qian Du</u> ^{1,2} , Nazaret Reveron-Gomez ^{1,3} , Alva Biran ¹ , Nicolas Alcaraz ¹ , Jonathan Humbert ¹ , Kyle N. Klein ^{4,5} , Peiyao A. Zhao ^{4,5} , Masato Kanemaki ^{6,7} , David M. Gilbert ^{4,5} , Anja Groth ^{1,3}
	¹ NNF Center for Protein Research, University of Copenhagen, Denmark, ² Garvan Institute of Medical Research, UNSW Sydney, Australia, ³ Biotech Research and Innovation Centre, University of Copenhagen, ⁴ Department of Biological Science, Florida State University, USA, ⁵ San Diego Biomedical Research Institute, La Jolla, CA, USA, ⁶ National Institute of Genetics, ROIS, Mishima, Japan, ⁷ Graduate Institute for Advanced Studies, SOKENDAI, Shizuoka, Japan
11:55-11:58	Session 6-6
	Exploring mechanisms of self/nonself discrimination at DNA level in fission yeast
	Hiro Ebina ¹ , Shweta Saini ¹ , Mattia Valentini ¹ , Haochen Yu ¹ , Yves Barral ¹
	¹ Institute of Biochemistry, ETH Zürich, Switzerland
11:58-12:01	Session 6-7
	TTF2 induces mitotic replisome disassembly and MiDAS by coupling the TRAIP
	E3 ligase to DNA Polymerase Epsilon
	<u>Ryo Fujisawa</u> ¹ , Karim Labib ¹
	¹ MRC-PPU, University of Dundee, U.K.

12:01-12:06 Photo shooting

12:06-14:00	Lunch
14:00-15:30	Session 7 (Chairs: Rie Kanao & Stephen West)
14:00-14:20	Session 7-1

	STK19 positions TFIIH for cell-free transcription-coupled DNA repair
	Tycho E.T. Mevissen ¹ , Maximilian Kümmecke ¹ , Ernst Schmid ¹ , Lucas Farnung ¹ , <u>Johannes Walter¹</u>
	¹ Harvard Medical School
14:20-14:40	Session 7-2
	The Agile Dance of XP Proteins in Nucleotide Excision Repair
	Wei Yang ³ , Jinseok Kim ³ , Li Eric CL ³ , Fumio Hanaoka ¹ , Kaoru Sugasawa ²
	¹ National Institute of Genetics, Shizuoka, ² Kobe University, ³ National Institutes of Health, USA
14:40-15:00	Session 7-3
	Chromatin dynamics regulating DNA damage recognition for nucleotide excision repair
	Kaoru Sugasawa ^{1,2}
	¹ Biosignal Research Center, Kobe University, ² Graduate School of Science, Kobe University
15:00-15:20	Session 7-4
	A mechanism that facilitates DNA mismatch repair during chromatin replication
	<u>Tatsuro Takahashi</u> ¹ , Eiichiro Kanatsu ² , Reihi Sakamoto ² , Riki Terui ¹ , Karin Shigenobu- Ueno ² , Yasukazu Daigaku ³ , Tamiko Minamisawa ³
	¹ Faculty of Science, Kyushu University, ² Graduate School of Systems Life Sciences, Kyushu University, ³ Cancer Institute, Japanese Foundation for Cancer Research
15:20-15:30	Session 7-5
	Stabilization of mononucleotide microsatellites by DNA mismatch repair and DNA polymerase proofreading in human cells
	<u>Shinya Oda</u> ¹ , Seijiro Shioi ¹ , Kyoko Hidaka ² , Ryosuke Fujikane ³ , Masumi Hidaka ³ , Yoshimichi Nakatsu ¹
	¹ Cancer Genet Lab, Clin Res Inst, NHO Kyushu Cancer Ctr, ² Ctr Fund Edu, Univ Kitakyushu, ³ Dpt Physiol Sci Mol Biol, Fukuoka Dent Coll
15:30-15:50	Coffee break
15:50-17:00	Session 8 (Chairs: Yasuyoshi Oka & Wei Yang)
15:50-16:10	Session 8-1
	DNA damage tolerance mechanisms in humans
	Chikahide Masutani ^{1,2} , Rie Kanao ^{1,2} , Rika Kusumoto-Matsuo ^{1,3,4} , Yuji Masuda ^{1,2}
	¹ Dept. Genome Dynamics, Res. Inst. Environ. Med., Nagoya Univ., ² Dept. Mol. Phamaco-Biol., Nagoya Univ. Grad. Sch. Med., ³ Res. Fellow, JSPS, ⁴ Present address: Adv. Cancer Trans. Res. Inst., Showa Univ.
16:10-16:30	Session 8-2
	DNA repair and longevity: from bats to whales
	<u>Vera Gorbunova ¹</u> , Andrei Seluanov ¹

	¹ University of Rochester
16:30-16:40	Session 8-3
	Focal amplification of a super-enhancer with the accumulation of non-coding RNAs
	in breast cancer
	<u>Noriko Saitoh</u> ¹ , Maierdan Palihati ¹ , Hiroaki Tachiwana ¹ , Yuichi Ichikawa ¹ ¹ The Cancer Institute of JFCR
16 40 16 50	
16:40-16:50	Session 8-4
	NELF promotes transcription termination and cell cycle
	Chihiro Nakayama ¹ , Qi Fang ¹ , Yasukazu Daigaku ² , Yuki Aoi ³ , Hiroshi Kimura ⁴ , Ali Shilatifard ³ , Michael Tellier ⁵ , <u>TAKAYUKI NOJIMA</u> ¹
	¹ Medical Institute of Bioregulation, Kyushu University, ² Cancer Institute, Japanese Foundation for Cancer Research, ³ Feinberg School of Medicine, Northwestern University, ⁴ Cell Biology Centre, Tokyo Institute of Technology, ⁵ University of Leicester
16:50-17:00	Session 8-5
10.30-17.00	Open Science and Responsible Science Communication
	Hartmut Vodermaier ¹
	¹ EMBO Press, The EMBO Journal
17:00-17:24	Session 9 (3-min Short talks)
17:00-17:03	Session 9-1
	Principles of chromosome organisation for meiotic recombination
	Mathilde Biot ² , Atilla Toth ¹ , Christine Brun ² , Leon Guichard ² , Bernard de Massy ² , <u>Corinne GREY²</u>
	¹ Faculty of Medecine, TU Dresden, Germany, ² IGH, CNRS University of Montpellier, France
17:03-17:06	Session 9-2
	Multiple mechanisms driving genomic instability in BRCA1-deficient cancer cells
	LiYao Huang ¹ , Ashleigh King ¹ , Jean Metson ¹ , Raquel Cuella Martin ² , J Ross Chapman ¹
	¹ MRC, WIMM, University of Oxford, ² Department of Human Genetics, McGill
	University
17:06-17:09	Session 9-3
	Spatial regulation of ribosomal RNA transcription by phase separation and transition
	Satoru Ide ^{1,2} , Yasuto Murayama ² , Kazuhiro Maeshima ²
	¹ Tokyo Metropolitan Institute of Medical Science, ² National Institute of Genetics
17:09-17:12	Session 9-4
	Initiation of Meiotic Recombination in Zebrafish Males
	<u>Yukiko Imai</u> ¹ , Clement Julie ²
	¹ Model Fish Genetics Lab, National Institute of Genetics, Japan, ² IHPE, Univ. Perpignan-CNRS-IFREMER-Montpellier Univ., France
17:12-17:15	Session 9-5

	FIGNL1 AAA+++ ATPase is essential for removal of RAD51 recombinase from meiotic chromosomes and chromosome condensation in mouse oocytes
	Masaru Ito ¹ , Shou Soeda ¹ , Akira Shinohara ¹
	¹ Institute for Protein Research, Osaka University
17:15-17:18	Session 9-6
	Aneuploidy-specific effects on tumor growth and malignant transformation
	<u>Minji Jo</u> ¹ , Oltea Sampetrean ² , Seietsu Rai ¹ , Tetsuya Negoto ³ , Utako Kato ¹ , Hideyuki Saya ⁴ , Toru Hirota ¹
	¹ Japanese Foundation for Cancer Research, ² Keio University, ³ Kurume University, ⁴ Fujita Health University
17:18-17:21	Session 9-7
	The DNA-Tension-Dependent Loop Extrusion Mechanism in Dimeric SMC Complexes
	<u>Takaharu Kanno</u> ^{1,4} , Biswajit Pradahan ² , Pinto Adrian ⁵ , Tetiker Damla ² , Baaske Martin ² , Cutt Erin ⁶ , Chatzicharlampous Constantinos ³ , Schüler Herwig ³ , Deep Amar ⁷ , Corbett Kevin ⁷ , Aragon Luis ⁶ , Virnau Peter ⁵ , Björkegren Camilla ¹ , Kim Eugene ²
	¹ Karolinska Institutet, Sweden, ² Max Planck Institute of Biophysics, Germany, ³ Lund University, Sweden, ⁴ The University of Tokyo, Japan, ⁵ Johannes Gutenberg University Mainz, Germany, ⁶ MRC London Institute of Medical Sciences (LMS), UK, ⁷ University of California, USA
17:21-17:24	Session 9-8
	Cell cycle regulation of replication initiation by timely binding/dissociation of the DNA bending factor IHF in <i>Escherichia coli</i>
	<u>Kazutoshi Kasho</u> ¹ , Ryuji Sakai ¹ , Kosuke Ito ¹ , Rion Satomura ¹ , Mizuki Yoshida ¹ , Kenya Miyoshi ¹ , Sho Nakazono ¹ , Tsutomu Katayama ¹
	¹ Kyushu University, Japan

17:30-19:30 Poster Session 1

Odd numbers: 17:30-18:30, Even numbers 18:30-19:30 Place A (2F, cultural gallery): P1-01~68 Place B (4F, foyer): P1-69~84

Day 3 (20 Nov. 2024)

8:30-9:40	Session 10 (Chairs: Mariko Sasaki & Scott Keeney)		
08:30-08:50	50 Session 10-1		
	BRCA1 promotes DNA resection by Exonuclease 1 and BLM/WRN-DNA2		
	Satona Ohno ¹ , Ichiro Amitani ¹ , Naofumi Handa ¹ , Taeho Kim ¹ , <u>Stephen</u> <u>Kowalczykowski¹</u>		
	¹ Department of Microbiology & Molecular Genetics, Department of Molecular & Cellular Biology, University of California, Davis, CA 95616, USA		
08:50-09:10	Session 10-2		
	The Synaptic Role of the Swit-Sfr1 Heterodimer in Rad51-Driven Strand Exchange during Homologous Recombination		
	<u>Hiroshi Iwasaki</u> ¹		
	¹ Cell Biology Center, Science Tokyo		
09:10-09:30	Session 10-3		
	Molecular mechanism of DNA end resection and repair pathway choice in DNA double-strand break repair		
	<u>Miki Shinohara</u> ^{1,2} , Tomoki Tamai ¹ , Giordano Reginato ³ , Ryusei Ojiri ¹ , Sasada Kenta ¹ , Valérie Borde ⁴ , Petr Cejka ³ , Katsunori Sugimoto ⁵		
	¹ Grad. Schl. of Agri., Kindai University, ² ATRI, Kindai University, ³ Università della Svizzera italiana (USI), ⁴ Institut Curie, ⁵ The State University of New Jersey		
09:30-09:40	Session 10-4		
	Mutations arising during repair of broken chromosomes in budding yeat		
	James Haber ^{1,2} , Neal Sugawara ¹ , Simona Dalin ³ , Sophie Webster ³ , Rameen Beroukhim ³		
	¹ Department of Biology, Brandeis University Waltham MA USA, ² Tokyo Institute of Technology, Tokyo Japan, ³ Dana Farber Cancer Institute, Boston, USA		
9:40-10:04	Session 11 (3-min Short talks)		
09:40-09:43	Session 11-1		
	The mechanisms of the recruitment of SLX4-XPF nuclease complex in the response to replication stress induced by lacO-LacI interaction		
	<u>Yoko Katsuki</u> ¹ , Takuma Okano ¹ , Soki Haruta ¹ , Tomoki Matsumura ¹ , Yasunori Noguchi ¹ , Miyako Shiraishi ¹ , Kazumasa Yoshida ¹ , Masatoshi Fujita ¹		
	¹ Grad. Sch. Pharm. Sci., Kyushu Univ.		
09:43-09:46	Session 11-2		
	CTF18 promotes cellular tolerance against chain-terminating nucleoside analogs (CTNAs) in cooperation with polymerase epsilon's exonuclease activity		
	Mubasshir Washif ¹ , Tasnim Ahmad ¹ , Md Bayejid Hosen ¹ , Md Ratul Rahman ¹ , Tomoya Taniguchi ¹ , Hiromori Okubo ¹ , Kouji Hirota ¹ , <u>Ryotaro Kawasumi¹</u> ¹ Tokyo Metropolitan University		
09:46-09:49	Session 11-3		

USP37 prevents premature disassembly of stressed replisomes by TRAIP
<u>Olga Kochenova^{1,2,6}</u> , Giuseppina D'Alessandro ^{3,6} , Domenic Pilger ^{*4} , Ernst Schmid ^{*1} , Sean Richards ³ , Marcos Rios Garcia ⁵ , Satpal Jhujh ⁵ , Andrea Voigt ³ , Christopher Carnie ³ , R. Alex Wu ¹ , Nadia Gueorguieva ³ , Grant Stewart ⁵ , Johannes Walter ^{#1,2} , Stephen Jackson ^{#3}
¹ Harvard Medical School, ² Howard Hughes Medical Institute, ³ Cancer Research UK Cambridge Institute, ⁴ University of Cambridge, ⁵ University of Birmingham, ⁶ Equal contribution, [*] Equal contribution, [#] Equal contribution
Session 11-4
Pluripotent Stem Cells Keep Genome integrity by Maintaining Slow DNA Replication Fork Progression and Abundant Replication Origins
Kiminori Kurashima ¹ , Yasunao Kamikawa ^{1,2} , Tomomi Tsubouchi ¹
¹ Lab. of Stem Cell Biol., Natl. Inst. for Basic Biol., Japan, ² Present adress: Hiroshima Univ., Japan
Session 11-5
Direct visualization of DNA-bound cohesin in-liquid using high-speed atomic force microscopy
Yumiko Kurokawa ^{1,2} , Kenichi Umeda ³ , Noriyuki Kodera ³ , Yasuto Murayama ^{1,2}
¹ National Institute of Genetics, ² SOKENDAI, ³ WPI-NanoLSI, Kanazawa University
Session 11-6
Impact of histone modifications on damage recognition process of global genome nucleotide excision repair
 <u>Masayuki Kusakabe</u>^{1,2}, Mizuki Watada^{1,2}, Takumi Maeda^{1,2}, Erina Kakumu^{1,2}, Kanae Fujiwara^{1,2}, Mizuki Otobe^{1,2}, Wataru Sakai^{1,2}, Masayuki Yokoi^{1,2}, Kaoru Sugasawa^{1,2} ¹Biosignal Research Center, Kobe University, ²Graduate School of Science, Kobe University
Session 11-7
Cell Cycle Regulation has Shaped Budding Yeast Replication Origin Structure and Function
<u>Chew Theng Lim</u> ¹ , Thomas Miller ^{1,2} , Kang Wei Tan ¹ , Saurabh Talele ³ , Anne Early ¹ , Philip East ¹ , Humberto Sanchez ³ , Nynke Dekker ³ , Alessandro Costa ¹ , John Diffley ¹
¹ The Francis Crick Institute, ² University of Copenhagen, ³ Delft University of
Technology
Session 11-8
Cryo-EM analyses of UV-damaged recognition protein UV-DDB in nucleosomes during nucleotide excision repair
<u>Syota Matsumoto¹</u> , Yoshimasa Takizawa ¹ , Mitsuo Ogasawara ¹ , Kana Hashimoto ¹ , Junpei Yamamoto ² , Shigenori Iwai ² , Kaoru Sugasawa ³ , Hitoshi Kurumizaka ¹
¹ Institute for Quantitative Biosciences, The University of Tokyo, ² Graduate School of Engineering Science, Osaka University, ³ Biosignal Research Center, Kobe University

10:24-12:04	Session 12 (Chairs: Takuro Nakagawa & Stephen
	Kowalczykowski)
10:24-10:44	Session 12-1
	Building a meiotic DNA breaking machine
	Zhi Zheng ^{2,3} , Lyuqin Zheng ² , Kaixian Liu ² , You Yu ² , Juncheng Wang ² , Meret Arter ² ,
	David Ontoso ^{1,2} , Soonjoung Kim ² , Dinshaw Patel ^{2,3} , <u>Scott Keeney</u> ^{1,2,3}
	¹ Howard Hughes Medical Institute, ² Memorial Sloan Kettering Cancer Center, ³ Gerstner
10:44-11:04	Sloan Kettering Graduate School Session 12-2
10.44-11.04	Do artificial DSBs successfully induce meiotic recombination and chromosome
	segregation?
	Kunihiro Ohta ¹
	¹ Dept. of Life Sciences, Univ. of Tokyo
11:04-11:24	Session 12-3
	Regulation of DNA synthesis during double-strand break repair
	<u>Valerie Borde</u> ^{1,2,3,4} , Sophie Loeillet ^{1,2,3,4} , Yulia Gryaznova ^{1,2,3,4} , Hrishi Dhondge ^{1,2,3,4} , Chunlong Chen ^{1,2,3,4}
	¹ Institut Curie, ² PSL University, ³ CNRS, ⁴ Dynamics of Genetic Information
11:24-11:34	Session 12-4
	NCADP2 SMC-condensin subunit: a new regulator of meiotic prophase I
	chromosome assembly in the mouse.
	Laurine Dal Toe ¹ , Boubou Diagouraga ¹ , Julien Cau ¹ , Estelle Grosjean ¹ , Audrey Bost ¹ ,
	Thomas ROBERT ¹
	¹ CNRS, Montpellier, France
11:34-11:44	Session 12-5
	Identification of budding yeast proteins that antagonize the mismatch repair system
	to promote hybrid fertility Ting-Fang Wang ¹
	¹ Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan
11:44-11:54	Session 12-6
11.77 11.37	Hop2-Mnd1 as a Gatekeeper of DNA Sequence Fidelity in Dmc1-Mediated
	Recombination
	Jo-Ching Peng ¹ , Hao-Yen Chang ^{1,3} , Yuting Liang Sun ³ , Mara Prentiss ⁴ , Hung-Wen Li ³ , <u>Peter Chi^{1,2}</u>
	¹ IBS, National Taiwan University, Taiwan, ² Institute of Biological Chemistry, Academia
	Sinica, Taiwan, ³ Department of Chemistry, National Taiwan University, Taiwan, ⁴ Department of Physics, Harvard University, USA
11:54-12:04	Session 12-7
	Mediator-Recombinase Interaction and RPA Binding Dynamics Modulate Recombinase Nucleoprotein Assembly
	<u>Hung-Wen Li¹</u> , Chin-Dian Wei Wei ¹ , Hao-Yen Chang ^{1,2} , Asako Furukohri ³ , Akira Shinohara ³ , Peter Chi ^{2,4}

¹Dept. of Chemistry, National Taiwan University, Taiwan, ²Biochemical Sciences, National Taiwan University, Taiwan, ³Institute for Protein Research, Osaka University, Japan, ⁴Institute of Biological Chemistry, Academia Sinica, Taiwan

12:25- Excursion

- The optional bus tour only for the registered participants (Registration is now closed)
- Gathering at ACROS Fukuoka, 1F, South entrance [Park side]

19:00-21:00 Banquet (Nishitetsu Grand Hotel, 2F, Banquet Room)

Day 4 (21 Nov. 2024)

8:30-10:10	Session 13 (Chairs: Yasuto Murayama & Johannes Walter)
08:30-08:40	Session 13-1
	RAD5 ^{OE} -INDUCED REPLICATION STRESS PROMOTES MITOTIC RECOMBINATION, LOSS OF HETEROZYGOSITY AND ANEUPLOIDY IN SACCHAROMYCES CEREVISAE
	<u>Rodney Rothstein</u> ^{1,2} , Eric E. Bryant ³ , Dirk Remus ⁴ , Ivana Sunjevaric ¹ , Alain Nicolas ⁵ , Robert J.D. Reid ¹
	 ¹Columbia University, Dept Genetics & Development, NY, USA, ²Columbia University, Dept Systems Biology, NY, USA, ³Columbia University, Dept Biology, NY, USA, ⁴Memorial Sloane Kettering Cancer Center, New York, USA, ⁵Institute for Research on Cancer and Aging, CNRS, Nice, FRANCE
08:40-08:50	Session 13-2
	Fission yeast Cnp1/CENP-A causes gross chromosomal rearrangements at centromeres
	<u>Takuro Nakagawa^{1,2}</u> , Shinnosuke Tomita ^{1,2} , Ziyi Pan ^{1,2}
	¹ Dept of Biol Sci, Grad Sch of Sci, Osaka University, ² Forefront Res Center, Grad Sch of Sci, Osaka University
08:50-09:10	Session 13-3
	Genome organization in DNA repair pathway choice and mutagenesis
	Sylvain Audibert ¹ , Diana Rubio ¹ , Ophelie Martin ¹ , Karen Meaburn ¹ , Raquel Carreira Rodriguez ¹ , <u>Evi Soutoglou¹</u>
	Sussex University
09:10-09:30	Session 13-4
	A role of BRCA2 in maintenance of hematopoietic stem cells
	Kosuke Yamazaki ² , Tomohiro Iguchi ² , Midori Yamaguchi ¹ , Aimi Sano ² , Kazuto Takayasu ² , Yusa Kosuke ³ , Kanemaki Masato ⁴ , Ichiro Taniuchi ⁵ , Hisao Masai ² , <u>Hiroyuki</u> <u>Sasanuma²</u>
	¹ Center for Basic Tech. Res., TMiMS, ² Genome Dynamics, TMiMS, ³ Lab. of Stem Cell Genetics, Kyoto University, ⁴ Lab. of Molecular Cell Engineering, NIG, ⁵ Lab. for Transcriptional Regulation, RIKEN
09:30-09:50	Session 13-5
	The Smc5/6 complex, DNA supercoiling and topoisomerases.
	<u>Camilla Bjorkegren</u> ¹ , Kristian Jeppsson ¹ , Takaharu Kanno ¹ , Biswajit Pradhan ² , Eugene Kim ² , Toyonori Sakata ³ , Katsuhiko Shirahige ³
	¹ Karolinska Institutet, Sweden, ² Max Planck Institute of Biophysics, Frankfurt am Main, Germany, ³ IQB, The University of Tokyo, Japan
09:50-10:10	Session 13-6
	Molecular mechanisms that regulate SLX4-XPF-ATR-RAD52 axis-mediated DNA damage response to replication stress induced by nucleoprotein obstacles
	<u>Masatoshi Fujita</u> ¹ , Yoko Katsuki ¹ , Takuma Okano ¹ , Kosei Matsushita ¹

¹ Graduate School of Pharmaceutical S	Sciences, Kyushu	University
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10:10-10:30	Coffee break
10.10-10.30	conce break
10:30-11:40	Session 14 (Chairs: Ichiro Hiratani & Camilla Bjorkegren)
10:30-10:40	Session 14-1
	SLX4/FANCP: Playing with nucleases, helicases and beyond Pierre Marie DEHÉ ^{1,2,3,4,5} , Stéphanie GON ^{1,2,3,4,5} , Isao KURAOKA ⁶ , Romane
	MARANO ^{1,2,3,4,5} , Manon RICQUEBOURG ^{1,2,3,4,5} , Sarah SCAGLIONE ^{1,2,3,4,5} , Arato TAKEDACHI ⁶ , <u>Pierre Henri GAILLARD</u> ^{1,2,3,4,5}
	¹ Cancer Research Centre Marseille (CRCM), France, ² U1068 Inserm, Marseille, France, ³ UMR7258 CNRS, Marseille France, ⁴ Institut Paoli-Calmettes, Marseille, France, ⁵ Aix Marseille University, Marseille, France, ⁶ Department of Chemistry, Faculty of Science, Fukuoka University
10:40-10:50	Session 14-2
	When Base Excision Repair goes wrong: chromosome fragmentation upon TORC2
	inhibition depends on nuclear actin-dependent remodeler activity
	<u>Susan M Gasser</u> ^{1,2} , Kenji Shimada ³ , Verena Hurst ³ , C.D. Tarashev ³ , C.B. Gerhold ³ , Masahiko Harata ³ , Barbara van Loon ⁴
	¹ ISREC Foundation, ² University of Lausanne, ³ Friedrich Miescher Institute for
	biomedical Research, ⁴ Norwegian Technical University
10:50-11:00	Session 14-3
	Trajectory and uniqueness of mutational signatures in yeast mutators
	Sophie Loeillet ¹ , Ana Houel ¹ , Patricia Legoix ² , Sylvain BAULANDE ² , Kowalczykowski Stephen C. ³ , Arturo LONDONO-VALLEJO ¹ , <u>NICOLAS Alain</u> ^{1,2,4}
	¹ Institut Curie, CNRS UMR3244 Paris France, ² Institut Curie, ICGEX, Paris France, ³ University California Davis, USA, ⁴ IRCAN CNRS, Nice, France
11:00-11:10	Session 14-4
	Human endonuclease ANKLE1 processes chromatin bridges by cleaving mechanically stressed DNA
	<u>Ying Wai Chan¹</u> , Huadong Jiang ¹ , Fei He ^{1,2} , Artem Efremov ²
	¹ The University of Hong Kong, ² Shenzhen Bay Laboratory
11:10-11:20	Session 14-5
	Diverse actions of Mre11 nuclease during DNA end resection and DNA replication
	Katsunori Sugimoto ¹
	¹ Rutgers
11:20-11:30	Session 14-6
	Fission yeast histone deacetylase Clr6 is repaired for the growth of cells with circular chromosomes
	Masaru Ueno ¹ , Hiroto Tamura ¹ , Kaito Nakamura ¹ , Gento Takagi ¹
	¹ Hiroshima University

11:30-11:40	Session 14-7
	Disruption of chromatin induces Topoisomerase 2 activity at sites of transcriptional
	stress
	William Gittens ¹
	¹ Genome Damage and Stability Centre, University of Sussex, UK
11:40-12:04	Session 15 (3-min Short talks)
11:40-11:43	Session 15-1
	Human AAA+ ATPase FIGNL1 suppresses RAD51-mediated ultra-fine bridge formation
	Kenichiro Matsuzaki ¹ , Miki Shinohara ^{1,2}
	¹ Grad. Sch. Agri., Kindai Univ., ² ATIRI, Kindai Univ.
11:43-11:46	Session 15-2
	Neddylation inhibition is lethal with FANCJ loss in cancers
	<u>Aki Nunomiya¹, Nanda Kumar Jegadesan^{1,2}, Dana Branzei^{1,3}</u>
	¹ DNA repair Lab, IFOM ETS, ² Johnson & Johnson Innovative Medicine, ³ Istituto di Genetica Molecolare, IGM-CNR
11:46-11:49	Session 15-3
	Molecular characterization of the single-stranded DNA binding activity of the initiation complex constructed at the eubacterial replication origin
	<u>Shogo Ozaki</u> ¹ , Yasutaka Wakasugi ¹ , Chuyuan Lu ¹ , Ryusei Yoshida ¹ , Ayaka Kubaru ¹ , Nanato Kiyohara ¹ , Tsutomu Katayama ¹
	¹ Kyushu University
11:49-11:52	Session 15-4
	Competition for resources between replication forks in E. coli
	<u>Florian Pflug</u> ¹ , Bhat Deepak ² , Pigolotti Simone ¹
	¹ Okinawa Institute of Science and Technology (OIST), ² Vellore Institute of Technology (VIT)
11:52-11:55	Session 15-5
	Temperature-Dependent Mechanisms in Bacterial Growth
	<u>Alberto Sassi¹, Simone Pigolotti¹</u>
	¹ Okinawa Institute of Science and Technology
11:55-11:58	Session 15-6
	Macromolecular clustering drives mitotic chromosome assembly
	Motoko Takahashi ¹ , Chang Liu ¹ , Toru Hirota ¹
	¹ Japanese Foundation for Cancer Research (JFCR), Cancer Institute
11:58-12:01	Session 15-7
	Fluorescence-based analysis for DNA damage response in living cell
	<u>Arato Takedachi</u> ¹ , Gakuto Fukushima ¹ , Yoshihiro Fujimura ¹ , Ayano Baba ¹ , Kousuke Matsuo ¹ , Haruto Kojima ¹ , Rui Oda ¹ , Hayato Nishino ¹ , Isao Kuraoka ¹
	¹ Fukuoka University

12:01-12:04	Session 15-8
	Resection of DNA double-strand breaks activates MRN- and 9–1–1-dependent ATR checkpoint and end-processing pathways in <i>Xenopus</i> egg extracts
	Kensuke Tatsukawa ¹ , Reihi Sakamoto ² , Tatsuro Takahashi ¹ , Eiji Ohashi ^{1,3}
	¹ Faculty of Science, Kyushu University, ² Graduate School of System Life Sciences, Kyushu University, ³ Nagahama Institute of Bio-Science and Technology
12:04-14:00	Lunch
14:00-15:30	Session 16 (Chairs: Yoshitaka Kawasoe & Cristina Cardoso)
14:00-14:20	Session 16-1
	STAG1-cohesin-specific contribution in building higher-order chromatin structure
	Ryota Sakata ¹ , Yoshimi Kinoshita ¹ , Ana Losada ² , <u>Tomoko Nishiyama¹</u>
	¹ Graduate School of Science, Kyoto University, ² Chromosome Dynamics Group, Molecular Oncology Programme, CNIO
14:20-14:40	Session 16-2
	Life without Loop Extrusion?
	Thomas Guérin ^{1,2} , Christopher Barrington ¹ , Georgii Pobegalov ¹ , Maxim Molodtsov ¹ , <u>Frank Uhlmann¹</u>
	¹ The Francis Crick Institute, London, ² Université Paris-Saclay, CEA, Fontenay-aux-Roses
	Withdrawal
14:40-14:50	Session 16-4
	Molecular basis of sister chromatid cohesion studied with purified proteins
	YASUTO MURAYAMA ¹ , Yumiko Kurokawa ¹
	¹ National Institute of Genetics
14:50-15:00	Session 16-5
	Impact of the genomic DNA-to-cytoplasmic ratio in mouse preimplantation
	development
	Tao Pan ² , Natsumi Taira ¹ , Koya Shimabukuro ² , Takaya Totsuka ¹ , Tomo Kondo ¹ , <u>Miho</u> <u>Ohsugi</u> ^{1,2}
	¹ Dept of Biol Sci, Grad Sch of Sci, The Univ of Tokyo, ² Dept of Life Sci, Grad Sch of Arts and Sci, The Univ of Tokyo
15:00-15:20	Session 16-6
	Embryonic genome instability upon somatic DNA replication timing program emergence
	<u>Ichiro Hiratani</u> ¹ , Saori Takahashi ¹ , Hirohisa Kyogoku ^{1,2} , Takuya Hayakawa ³ , Hisashi Miura ¹ , Asami Oji ¹ , Yoshiko Kondo ¹ , Shin-ichiro Takebayashi ³ , Tomoya Kitajima ¹

	¹ RIKEN Center for Biosystems Dynamics Research, Kobe, Japan, ² Graduate School of Agricultural Science, Kobe Univ, Kobe, Japan, ³ Graduate School of Bioresources, Mie Univ, Tsu, Japan
15:20-15:50	Coffee break
15:50-17:00	Session 17 (Chairs: Esashi Fumiko & Frank Uhlmann)
15:50-16:10	Session 17-1
	rDNA instability and cellular senescence
	<u>Takehiko Kobayashi¹</u>
	¹ Univ. of Tokyo, IQB
16:10-16:30	Session 17-2
	Toward a deep understanding of mitotic chromosome assembly
	Tatsuya Hirano ¹
	¹ Chromosome Dynamics Laboratory, RIKEN
16:30-16:50	Session 17-3
	The ancient unsolved problem of mitotic chromosome formation
	<u>William Earnshaw</u> ¹ , Kumiko Samejima ¹ , Fernanda Cisneros-Soberanis ¹ , Moonmoon Deb ¹ , Johan Gibcus ² , Leonid Mirny ³ , Job Dekker ² , Anton Goloborodko ⁴
	¹ University of Edinburgh, ² University of Massachusetts Chan Medical School, ³ Massachusetts Institute of Technology, ⁴ Institute of Molecular Biotechnology; Vienna
16:50-17:00	Session 17-4
	Context-dependent kinetochore phosphorylation by Aurora B through microtubule-mediated substrate masking
	<u>Hironori Funabiki¹, Yiming Niu¹, Hideaki Konishi¹</u>
	¹ The Rockefeller University

17:00-17:24 Session 18 (3-min Short talks)

17:00-17:03 Session 18-1

STK19 facilitates the clearance of lesion-stalled RNAPII during transcriptioncoupled DNA repair

<u>Diana van den Heuvel</u>^{2,9}, Marta Rodríguez-Martínez^{1,9}, Paula J. van der Meer^{2,9}, Nicolas Nieto Moreno³, Jiyoung Park⁴, Hyun-Suk Kim⁴, Janne J.M. van Schie², Annelotte P. Wondergem², Areetha D'Souza⁴, George Yakoub², Anna E. Herlihy¹, Krushanka Kashyap³, Thierry Boissière^{1,3}, Jane Walker¹, Richard Mitter¹, Katja Apelt², Klaas de Lint⁶, Idil Kirdök⁶, Mats Ljungman⁷, Rob M.F. Wolthuis⁶, Patrick Cramer⁸, Orlando D. Schärer^{4,5}, Goran Kokic^{8,10}, Jesper Q. Svejstrup^{1,3,10}, Martijn S. Luijsterburg^{2,10}

¹The Francis Crick Institute, UK, ²Leiden University Medical Center, NL, ³University of Copenhagen, DK, ⁴Institute for Basic Science, Ulsan, Republic of Korea, ⁵Ulsan National Institute of Science & Technology, Rep. of Korea, ⁶Cancer Center Amsterdam, Amsterdam University Medical Center, NL, ⁷University of Michigan, Ann Arbor, MI,

	USA, ⁸ Max Planck Institute for Multidisciplinary Sciences, DE, ⁹ Equal contribution, ¹⁰ Corresponding authors
17:03-17:06	Session 18-2
	CDCA7 is an evolutionarily conserved hemimethylated DNA sensor in eukaryotes
	<u>Isabel Wassing</u> ^{3,4} , Atsuya Nishiyama ^{2,4} , Reia Shikimachi ¹ , Qingyuan Jia ³ , Amika Kikuchi ¹ , Moeri Hiruta ¹ , Keita Sugimura ² , Xin Hong ² , Yoshie Chiba ² , Junhui Peng ³ , Chris Jenness ³ , Makoto Nakanishi ² , Li Zhao ³ , Kyohei Arita ¹ , Hironori Funabiki ³ , ¹ Yokohama City University, ² The University of Tokyo, ³ Rockefeller University, ⁴ equal contribution
17:06-17:09	Session 18-3
17.00 17.09	Mechanisms of nucleosome uncoiling at the replication fork
	<u>Oliver Willhoft¹</u> , Milos Cvetkovic ¹ , Daniel Felfoldi ¹ , Alessandro Costa ¹
	¹ The Francis Crick Institute
17:09-17:12	Session 18-4
	Pro-DSB components drive intermolecular chromosome condensation in distinct island regions during meiotic prophase
	Ellie M. Wright ¹ , George G. B. Brown ¹ , Matthew J. Neale ¹
	¹ Genome Damage and Stability Centre, University of Sussex, BN1 NRQ, Falmer, UK
17:12-17:15	Session 18-5
	Non-canonical functions of UHRF1 maintain DNA methylation homeostasis in cancer cells.
	Kosuke Yamaguchi ^{1,2} , Xiaoying Chen ² , Brianna Rodgers ² , Fumihito Miura ³ , Pavel Bashtrykov ⁴ , Frédéric Bonhomme ⁵ , Catalina Salinas-Luypaert ⁶ , Deis Haxholli ⁷ , Nicole Gutekunst ⁴ , Bihter Özdemir Aygenli ⁸ , Laure Ferry ² , Olivier Kirsh ² , Marthe Laisné ² , Andrea Scelfo ⁶ , Enes Ugur ⁷ , Paola B. Arimondo ⁵ , Heinrich Leonhardt ⁷ , Masato T. Kanemaki ¹ , Till Bartke ⁸ , Daniele Fachinetti ⁶ , Albert Jeltsch ⁴ , Takashi Ito ³ , Pierre-Antoine Defossez ²
	¹ National Institute of Genetics, ² Université Paris Cité, UMR7216, ³ Kyushu University Graduate School of Medical Sciences, ⁴ Institute of Biochemistry and Technical Biochemistry, ⁵ Institut Pasteur, UMR3523, ⁶ Institut Curie, UMR144, ⁷ Ludwig- Maximilians-Universität München, ⁸ Institute of Functional Epigenetics
17:15-17:18	Session 18-6
	Development of photoactivatable endonuclease for meiotic recombination
	<u>Hideyuki Yone¹</u> , Yuri Kawashima ² , Hayato Hirai ¹ , Hiromitsu Kono ¹ , Kunihiro Ohta ^{1,3}
	¹ Grad. Sch. of Arts & Sci., Univ. of Tokyo, ² Res. Inst. Rad. Biol. & Med., Hiroshima
	Univ., ³ Universal Biology Institute, Univ. of Tokyo
17:18-17:21	Session 18-7
	Mechanisms in chromosome origin unwinding promoted by bacterial initiator DnaA protein and a ubiquitous nucleoid-associated protein HU.
	<u>Ryusei Yoshida¹</u> , Shogo Ozaki ¹ , Hironori Kawakami ¹ , Tsutomu Katayama ¹
	¹ Graduate School of Pharmaceutical Sciences, Kyushu University
17.01 17.04	

The RIF1-PP1 complex shapes DNA replication initiation zones to establish the replication timing program

<u>XIAOXUAN ZHU</u>¹, Atabek Bektash^{1,2}, Yuki Hatoyama^{1,2}, Sachiko Sakamoto¹, Chun-Long Chen³, Yasukazu Daigaku⁴, Masato Kanemaki^{1,2,5}

¹National Institute of Genetics, ²SOKENDAI, ³Institut Curie, ⁴Cancer Institute for JFCR, ⁵The University of Tokyo

17:30-19:30 Poster session 2

Odd numbers: 17:30-18:30, Even numbers 18:30-19:30 Place A (2F, cultural gallery): P2-01~68 Place B (4F, foyer): P2-69~83

Day 5 (22 Nov. 2024)

8:30-10:00	Session 19 (Chairs: Tomoko Nishiyama & William Earnshaw)
08:30-08:50	Session 19-1
	Replication-dependent histone (Repli-Histo) labeling specifically visualizes physical properties of euchromatin/heterochromatin in living human cells.
	Kazuhiro Maeshima ^{1,2} , Minami Katsuhiko ^{1,2} , Satoru Ide ^{1,2} , Sachiko Tamura ¹
	¹ National Institute of Genetics, ² SOKENDAI
08:50-09:10	Session 19-2
	Regulation of sex chromosome replication
	Cristina Cardoso ¹
	¹ Technical University of Darmstadt, Germany
09:10-09:30	Session 19-3
	DNA Replication and Chromatin Organization in Early Zebrafish Embryos
	<u>Hiroshi Kimura</u> ^{1,2} , Yuko Sato ²
	¹ Cell Biology Ctr, Inst Integr Res, Institute of Science Tokyo, ² Cell Biology Ctr, Inst Innov Res, Tokyo Institute of Technology
09:30-09:50	Session 19-4
	How cells enrich Aurora B activity at centromeres in mitosis
	<u>Toru Hirota¹</u>
	¹ Japanese Foundation for Cancer Research (JFCR), Cancer Institute
09:50-10:00	Session 19-5
	Contextual Roles of BRCA2 and PALB2 in Safeguarding Centromere Integrity
	Emily Graham ¹ , Lucia Rampazzo ¹ , Chin Wei Brian Leung ¹ , Jacob Wall ¹ , Emoke Zsanett Gerocz ¹ , Mikhail Liskovykh ³ , 311, Masato T. Kanemaki ⁴ , Hiroshi Masumoto ² , Vladimir Larionov ³ , Natalay Kouprina ³ , <u>Fumiko Esashi¹</u>
	¹ University of Oxford, UK, ² Kazusa DNA Research Institute, Japan, ³ National Cancer Institute, National Institutes of Health, US, ⁴ National Institute of Genetics, Japan
10:00-10:20	Coffee break
10:20-11:50	Session 20 (Chairs: Satoru Ide & Valérie Borde)
10:20-10:40	Session 20-1
	Evolution of chromosome ends
	Junko Kanoh ¹
	¹ Graduate School of Arts and Sciences, the University of Tokyo
10:40-11:00	Session 20-2
	Structural studies for understanding chromatin function in genome regulation
	Hitoshi Kurumizaka ¹
	¹ Institute for Quantitative Biosciences, The University of Tokyo

11:00-11:10	Session 20-3
	Proteomic profiling of UV damage repair patches uncovers histone chaperones with central functions in chromatin repair
	Alexandre Plessier ¹ , Audrey Chansard ¹ , Eliane Petit ¹ , Julia Novion Ducassou ² , Yohann Coute ² , <u>Sophie Polo¹</u>
	¹ CNRS/Université Paris Cité, Paris, France, ² CNRS/CEA/University Grenoble Alpes, Grenoble, France
11:10-11:30	Session 20-4
	Transcription elongation is regulated by Cohesin
	KATSUHIKO SHIRAHIGE ^{1,2} , <u>Shoin Tei</u> ¹ , Toyonari Sakata ^{1,2} , Atsunori Yoshimura ¹ , Takashi Sutani ¹ , Masashige Bando ¹
	¹ Institute For Quantitative Biosciences, The University of Tokyo, ² Department of Cell and Molecular Biology, Karolinska Institutet
11:30-11:50	Session 20-5
	Endogenous aldehyde-induced DNA damage is resolved by transcription-coupled repair, leading to hematopoietic abnormalities and aging phenotypes in mice
	Yasuyoshi Oka ¹ , Yuka Nakazawa ¹ , Mayuko Shimada ¹ , <u>Tomoo Ogi</u> ^{1,2,3,4}
	¹ Res. Inst. of Environmental Medicine (RIeM), Nagoya University, ² Dept. of Human Genetics and Molecular Biology, Nagoya University, ³ COMIT Center for One Medicine, Nagoya University, ⁴ Institute for Glyco-core Research (iGCORE), Nagoya University

11:50-12:00 Closing remarks

Poster Sessions

Poster Session 1 (Day 2) Odd numbers: 17:30-18:30, Even numbers 18:30-19:30 Place A (2F, cultural gallery): P1-01~68 Place B (4F, foyer): P1-69~84

riace d (4r,	10yer): r1-09~04
P1-01	Open Science and Responsible Science Communication
(Session 08-5)	Hartmut Vodermaier (The EMBO Journal)
P1-02	Strand asymmetry of DNA damage tolerance mechanisms
(Session 03-1)	Rodrigo Bermejo (CIB-CSIC)
P1-03	Single-molecule analysis of uncharacterised DNA replication initiation sites using
(Session 03-2)	Nanopore sequencing technology
	Shin-ichiro Hiraga (Univ. of Aberdeen)
P1-04	R-loop Resolution by ARIP4 Helicase Promotes Androgen-dependent Transcription
(Session 03-3)	Induction
	Michael Huen (HKU)
P1-05	DNA replication will not be required for ROS accumulation after chromosome
(Session 03-4)	breakages in E. coli.
	Akihiro Kaidow (Tokai Univ.)
P1-06	Visualization of DNA replication errors in living Escherichia coli cells
(Session 03-5)	Ivan Matic (Institut Cochin)
P1-07	Top3 drives crossover migration to the meiotic chromosome axis
(Session 03-6)	Matt Neale (University of Sussex)
P1-08	Spatial control of the APC/C ensures the rapid degradation of Cyclin B1
(Session 03-7)	Jon Pines (ICR)
P1-09	Rad54 prevents excessive intergenerational Rad51 aggregation in fission yeast
(Session 03-8)	Hideo Tsubouchi (Tokyo Inst. Tech.)
P1-10	Pre-RC forming proteins commonly have G-quadruplex binding activity in the
(Session 03-9)	intrinsically disordered regions
	Shou Waga (Japan Women's Univ.)
P1-11	DPPA3 Disrupts UHRF1 Chromatin Localization by Targeting the SRA Domain
(Session 06-1)	Atsuya Nishiyama (Univ. of Tokyo)
P1-12	Contribution of translesion synthesis for mutagenesis via a novel food-induced
(Session 06-2)	formamidopyrimidine-derivative
	Akagi Jun-ichi (NIHS/MHLW)
P1-13	Temperature sensitive growth of Δ mukB cells were suppressed by the mutations on
	topoisomerase I or cell wall related genes
	Koichiro Akiyama (NIG)
P1-14	Trajectory and uniqueness of mutational signatures in yeast mutators

(Session 14-3)	NICOLAS Alain (IRCAN, NIce France)
P1-15	Withdrawal
(Session 16-3)	
P1-16	Nucleoporins cooperate with Polycomb silencers to promote transcriptional repression and repair at DNA double strand breaks
	Yubin Bae (DGIST)
P1-17	Cohesin is involved in the formation of elongating RNA polymerase II complex
	Bando, Masashige (Bando, Masashige)
P1-18	DNA replication profiling using LD-OK-seq in ATR-inactivated cells
	Atabek Bektash (NIG)
P1-19	Roles of Zpr1 in Cellular Proliferation and Genome Maintenance
	Szabolcs Bene (IFOM ETS, Italy)
P1-20	RAD51 paralogs travel with the replicative helicase to facilitate lesion bypass
(Session 05-2)	Kara Bernstein (Univ. Pennsylvania)
P1-21	Identifying the functions of SUMO-modified proteins during meiotic recombination in budding yeast
	Regina Bohn (UC Davis)
P1-22	Phenotypic sex determines recombination patterning in sex-reversed Rainbow
(Session 06-3)	Trout
	Cathrine Brekke (NMBU)
P1-23 (Session 04-7)	Cytidine deaminases promote DNA replication stress resistance in pancreatic cancer cells
	Grant Brown (University of Toronto)
P1-24	Large-scale conservation of genomic architecture between distant species
(Session 06-4)	Rory T. Cerbus (RIKEN BDR)
P1-25 (Session 14-4)	Human endonuclease ANKLE1 processes chromatin bridges by cleaving mechanically stressed DNA
	Gary YW Chan (University Hong Kong)
P1-26	Hop2-Mnd1 as a Gatekeeper of DNA Sequence Fidelity in Dmc1-Mediated
(Session 12-6)	Recombination
	Peter Chi (NTU)
P1-27	Meiotic Prophase roles of Chl1 in Saccharomyces cerevisiae
	Hyungseok Choi (Chung-Ang Univ.)
P1-28	When DNA becomes its own enemy: Reconstitution of DNA-induced replication
(Session 02-6)	stalling
D1 2 0	Gideon Coster (ICR, London UK)
P1-29	Withdrawal
P1-30	Withdrawal
(Session 04-4)	
P1-31	Condensin collaborates with topoisomerases at replication forks to facilitate fork reversal in response to replication stress

	Megane Da Mota (UMR9002 CNRS)
P1-32	Identification and functional characterization of a new crossover factor in the
	mouse
	Arnaud De Muyt (CBS)
P1-33	Altering DNA replication timing interferes with the precision of epigenome
(Session 06-5)	maintenance
	Qian Du (NNF CPR, KU, Denmark)
P1-34	Allosteric activation of the SPRTN protease by poly-ubiquitin
	Sophie Dürauer (LMU München)
P1-35	Exploring mechanisms of self/nonself discrimination at DNA level in fission yeast
(Session 06-6)	Hiro Ebina (ETH Zürich)
P1-36	Unbiased genome-wide mapping and characterization of fragile sites in single
	mammalian cells
	Jothivanan (RIKEN BDR)
P1-37	Contextual Roles of BRCA2 and PALB2 in Safeguarding Centromere Integrity
(Session 19-5)	Fumiko Esashi (University of Oxford)
P1-38	ATM and 53BP1 regulate alternative end joining-mediated V(D)J recombination
(Session 05-5)	Richard Frock (Stanford University)
P1-39	TTF2 induces mitotic replisome disassembly and MiDAS by coupling the TRAIP
(Session 06-7)	E3 ligase to DNA Polymerase Epsilon
	Ryo Fujisawa (MRC-PPU, Dundee)
P1-40	Context-dependent kinetochore phosphorylation by Aurora B through
(Session 17-4)	microtubule-mediated substrate masking
	Hiro Funabiki (Rockefeller Univ)
P1-41	Dynamic structures and functions of enzymes working in DNA double-strand
	break repair
	Asako Furukohri (IPR, Osaka univ.)
P1-42 (Session 14-2)	When Base Excision Repair goes wrong: chromosome fragmentation upon TORC2
(Session 14-2)	inhibition depends on nuclear actin-dependent remodeler activity Susan M Gasser (ISREC Foundation, University of Lausanne)
P1-43	Disruption of chromatin induces Topoisomerase 2 activity at sites of transcriptional
(Session 14-7)	stress
	Will Gittens (Uni. of Sussex, UK)
P1-44	Principles of chromosome organisation for meiotic recombination
(Session 09-1)	Corinne Grey (IGH CNRS Montpellier)
P1-45	Cohesin complex oligomerization maintains end-tethering at DNA double-strand
	breaks.
	Thomas Guérin (CEA Paris Saclay)
P1-46	Mutations arising during repair of broken chromosomes in budding yeat
(Session 10-4)	Jim Haber (Brandeis University)

P1-47	A combinational degron system with AID2 and BromoTag uncovers the relationship between DNA replication and the cell cycle
	Yuki Hatoyama (NIG)
P1-48	Cooperation of Cdt2 C-terminal Motifs in Regulating CRL4Cdt2 Dynamics at the DNA Replication Site.
	Akiyo Hayashi (Univ. of Hyogo)
P1-49	Deciphering the genomic basis of phenotypic variation with TAQing system
	Yuta Hirai (Univ. of Tokyo)
P1-50	Embryonic genome instability upon somatic DNA replication timing program
(Session 16-6)	emergence
	Ichiro Hiratani (RIKEN BDR)
P1-51	The interaction of histones with the amino-terminal region of Mcm2 is stabilized by
	FACT but unstabilized by Nap1.
	Kohji HIZUME (Saitama Med. Univ.)
P1-52	Human RAD52 double-ring remodels replication forks restricting fork reversal
	Masa Honda (University of Iowa)
P1-53	Visualizing homology search during DNA double-strand break repair in yeast
(Session 05-4)	Chihiro HORIGOME (Tohoku University)
P1-54	Distinctive nuclear zone for RAD51-mediated homologous recombinational DNA
	repair
	Yasunori HORIKOSHI (Hiroshima University)
P1-55	Multiple mechanisms driving genomic instability in BRCA1-deficient cancer cells
(Session 09-2)	Li-Yao Huang (WIMM. Oxford)
P1-56	Spatial regulation of ribosomal RNA transcription by phase separation and
(Session 09-3)	transition
	Satoru Ide (TMIMS)
P1-57	Initiation of Meiotic Recombination in Zebrafish Males
(Session 09-4)	Yukiko Imai (NIG)
P1-58	FIGNL1 AAA+++ ATPase is essential for removal of RAD51 recombinase from
(Session 09-5)	meiotic chromosomes and chromosome condensation in mouse oocytes
	Masaru Ito (Osaka University)
P1-59	Histone methyltransferase NSD2 is involved in the maintenance of chromatin during site-specific double-strand break repair
	Koh Iwasaki (Chiba University)
P1-60	Analysis of the fission yeast Nrd1 and Pof1 on the accumulation of recombination
11.00	intermediates
	JIANG BEIBEI (Hiroshima University)
P1-61	Aneuploidy-specific effects on tumor growth and malignant transformation
(Session 09-6)	Minji Jo (Cancer Inst., JFCR)
P1-62	Chl1 Supports Sister Chromatid Cohesion and Chromosome Morphogenesis during Meiosis

	Min Kyung Jo (Chung-Ang University)
P1-63	Super-Resolution Microscopy Analysis of RPA, Rad51, and Dmc1 Foci Dynamics
	during Meiotic Recombination in Saccharomyces cerevisiae
	Jeong Hwan Joo (Chung-Ang University)
P1-64	Towards the understanding of chiasma structure
	Yasutaka Kakui (WIAS, Waseda univ.)
P1-65	Resilient regulation of Plk1 activity in processing kinetochore-microtubule
	attachments
	Nana Kamakura (JFCR, Cancer Inst.)
P1-66	Ubiquitin ligase RFWD3 and TLS polymerases contribute to PCNA ubiquitination- dependent DNA damage tolerance in human cells
	Rie Kanao (Nagoya University)
P1-67	Smarcad1 and MutSα catalyze unidirectional sliding of a nucleosome away from a mismatch to facilitate eukaryotic DNA mismatch repair on chromatin
	KANATSU, Eiichiro (Kyushu University)
P1-68	The DNA-Tension-Dependent Loop Extrusion Mechanism in Dimeric SMC
(Session 09-7)	Complexes
	Takaharu Kanno (Karolinska Institute)
P1-69	Cell cycle regulation of replication initiation by timely binding/dissociation of the
(Session 09-8)	DNA bending factor IHF in <i>Escherichia coli</i>
D1 70	Kazutoshi Kasho (Kyushu University)
P1-70	Replication Stress in Endothelial Cells Orchestrates Attenuation of Cardiomyocyte OXPHOS via Igfbp7 Secretion, Leading to Heart Failure
	Manami Katoh (University of Tokyo)
P1-71	Promotion of ATP hydrolysis by specific basic patch-dependent multimerization of
	budding yeast ORC on ssDNA
	Hironori Kawakami
D1 50	(Sanyo-Onoda City Uni)
P1-72	Chromosome-dependent aneuploid formation in Spo11-less meiosis
D1 50	Yuri Kawashima (Hiroshima University)
P1-73	Structural basis for the activation mechanism of DNMT1 in DNA methylation maintenance
	Amika Kikuchi (Yokohama City Univ.)
P1-74	Dynamic Chromosomal Distribution of Mismatch Repair Proteins in Embryonic
	Stem Cells
	Hyoseung Kim (Chung-Ang University)
P1-75	Development of Cas9-based high throughput platform for cancer drug screening
	Sohyun Kim (Chung-Ang university)
P1-76	Preparation and evaluation of chromatin regulator, PCGF1-PRC1 complexes
	Kisuke Kobayashi (RIKEN IMS)
P1-77	TAQing-Driven Recombination for Trait Integration in Yeast

	Hiromitsu Kono (The Univ. of Tokyo)
P1-78	Effects of DNA substrate structures on lesion excision by nucleotide excision repair
	in vitro
	Hidetsugu Kozono (Kobe University)
P1-79	Uncovering the role of HLTF in fork dynamics during replication stress using
	single-molecule biophysics
	Ulrike Kühbacher (Stanford University)
P1-80	High-resolution microscopic analysis of DNA synthesis in meiosis
	JUNSEO LEE (Chung-Ang University)
P1-81	Defining the role of MEN1 in Alternative Lengthening of Telomeres
	Ronnie Low (Francis Crick Ins)
P1-82	Single-cell ATAC-Seq reveals stage-specific gene regulatory landscape during
	mouse spermatogenesis
	So Maezawa (Tokyo Univ. of Sci.)
P1-83	Mechanisms for the removal of replication-blocking HMCES- and thiazolidine-
	DNA adducts in humans
	Masuda Yuji (RIEM, Nagoya Univ.)
P1-84	Focal amplification of a super-enhancer with the accumulation of non-coding
(Session 08-3)	RNAs in breast cancer
	Noriko Saitoh (Cancer Inst JFCR)

Poster Session 2 (Day 4) Odd numbers: 17:30-18:30, Even numbers 18:30-19:30 Place A (2F, cultural gallery): P2-01~68 Place B (4F, foyer): P2-69~83

P2-01 (Session 11-1)	The mechanisms of the recruitment of SLX4-XPF nuclease complex in the response to replication stress induced by lacO-LacI interaction
	Yoko Katsuki (Kyushu University)
P2-02	CTF18 promotes cellular tolerance against chain-terminating nucleoside analogs
(Session 11-2)	(CTNAs) in cooperation with polymerase epsilon's exonuclease activity
	Ryotaro Kawasumi (Tokyo Metropolitan University)
P2-03	USP37 prevents premature disassembly of stressed replisomes by TRAIP
(Session 11-3)	Olga Kochenova (HMS/HHMI)
P2-04	Pluripotent Stem Cells Keep Genome integrity by Maintaining Slow DNA
(Session 11-4)	Replication Fork Progression and Abundant Replication Origins
	Kurashima Kiminori (NIBB)
P2-05	Direct visualization of DNA-bound cohesin in-liquid using high-speed atomic force
(Session 11-5)	microscopy
	Yumiko KUROKAWA (Nat. Inst. of Genet.)
P2-06	Impact of histone modifications on damage recognition process of global genome
(Session 11-6)	nucleotide excision repair
	Masayuki Kusakabe (Kobe University)
P2-07	Mediator-Recombinase Interaction and RPA Binding Dynamics Modulate
(Session 12-7)	Recombinase Nucleoprotein Assembly
	Hung-Wen Li (National Taiwan Univ)
P2-08	Cell Cycle Regulation has Shaped Budding Yeast Replication Origin Structure and
(Session 11-7)	Function
	Chew Theng Lim (Francis Crick Inst.)
P2-09	Cryo-EM analyses of UV-damaged recognition protein UV-DDB in nucleosomes
(Session 11-8)	during nucleotide excision repair
	Syota Matsumoto (The Univ. of Tokyo)
P2-10	Quantitative analysis of the frequency of chromosome loss after a DSB induction
	Matsuno Seiya (TMU)
P2-11	Replication-stress-associated DSBs induced by ionizing radiation risk genomic
	destabilization and associated clonal evolution
	Yusuke Matsuno (NCCRI)
P2-12	Functional analysis of RAD52 in the replication stress response induced by lacO-
	LacI complexes on a human chromosome
	Matsushita Kosei (Kyushu University)
P2-13	Human AAA+ ATPase FIGNL1 suppresses RAD51-mediated ultra-fine bridge
(Session 15-1)	formation
	Kenichiro Matsuzaki (Kindai University)

P2-14	Replication-dependent histone (Repli-Histo) labeling specifically visualizes the
	physical properties of euchromatin/heterochromatin in living human cells
	Katsuhiko Minami (NIG)
P2-15	Investigating the mechanistic basis of G1/S transition
	Toshinari Miyauchi (Francis Crick Inst.)
P2-16	Molecular mechanism of bacterial cytokinesis position control by the Min system
(Session 04-6)	helping stable chromosome maintenance
	Kiyoshi Mizuuchi (LMB, NIDDK, NIH)
P2-17	Molecular basis of sister chromatid cohesion studied with purified proteins
(Session 16-4)	YASUTO MURAYAMA (NIG)
P2-18	Identification of minimal components of DNA-replication coupled symmetric
	histone recycling
	Fritz Nagae (Kyoto University)
P2-19	Fission yeast Cnp1/CENP-A causes gross chromosomal rearrangements at
(Session 13-2)	centromeres
	Takuro Nakagawa (Osaka University)
P2-20	Mechanisms regulating Clr4/SUV39H histone methyltransferase activity
	Rinko Nakamura (NIBB)
P2-21	Structural basis for the recognition of oxidized nucleotides by human MTH1
	Teruya Nakamura (Kumamoto University)
P2-22	Chromatin environment and RNA transcription termination regulation in cancer
	Chihiro Nakayama (Kyushu University)
P2-23	Inability of DNA damage response pathways to rescue cells from lethality caused
	by DNA over-replication
	Nguyen Ngoc Hong (Kochi Univ. of Tech.)
P2-24	Investigation on the induction of re-replication by NEDD8ylation inhibitor,
	MLN4924 in human cells
	Hideo NISHITANI (University of Hyogo)
P2-25	NELF promotes transcription termination and cell cycle
(Session 08-4)	Taka Nojima (Kyushu University)
P2-26	Neddylation inhibition is lethal with FANCJ loss in cancers
(Session 15-2)	Aki Nunomiya (IFOM)
P2-27	PRR14 and PRR14L are responsible for proper chromosome segregation in mitosis
	Chikashi Obuse (Osaka University)
P2-28	Stabilization of mononucleotide microsatellites by DNA mismatch repair and DNA
(Session 07-5)	polymerase proofreading in human cells
	Shinya Oda (Kyushu Cancer Center)
P2-29	Aldehyde-induced DNA-protein crosslinks are resolved by transcription-coupled
	repair
	Yasuyoshi Oka (Nagoya University)

P2-30	Nuclear pore association plays a crucial role in the establishment of SUMO E3
	ligase Mms21-mediated DNA damage-induced cohesion
	Yamato Okada (Tohoku University)
P2-31	Elucidating the mechanism of the recruitment of SLX4 in the replication stress
	response induced by lacO-LacI interaction on a human chromosome
	Takuma Okano (Kyushu University)
P2-32	The genetic relationship between Polη and Polζ in human TK6 cells
	Okuda Mone (TMU)
P2-33	Molecular characterization of the single-stranded DNA binding activity of the
(Session 15-3)	initiation complex constructed at the eubacterial replication origin
	Shogo Ozaki (Kyushu University)
P2-34	Competition for resources between replication forks in E. coli
(Session 15-4)	Florian Pflug (OIST)
P2-35	SLX4/FANCP: Playing with nucleases, helicases and beyond
(Session 14-1)	PH GAILLARD (CRCM, France)
P2-36	Genome replication in asynchronously growing microbial populations
(Session 04-5)	Simone Pigolotti (OIST)
P2-37	Proteomic profiling of UV damage repair patches uncovers histone chaperones
(Session 20-3)	with central functions in chromatin repair
	Sophie Polo (CNRS Paris France)
P2-38	Step-wise assembly of the pre-initiation complex
	Thomas Puehringer (Crick Institute)
P2-39	NCADP2 SMC-condensin subunit: a new regulator of meiotic prophase I
(Session 12-4)	chromosome assembly in the mouse.
	Thomas ROBERT (CBS, CNRS)
P2-40	Nanopore Sequencing of Nucleosomes Assembled at Replication – Nano-SoNAR
	Fernando R. Bringas (The Crick Institute)
P2-41	RAD5^{0E}-INDUCED REPLICATION STRESS PROMOTES MITOTIC
(Session 13-1)	RECOMBINATION, LOSS OF HETEROZYGOSITY AND ANEUPLOIDY IN
	SACCHAROMYCES CEREVISAE
	Rodney Rothstein (Columbia Univ Med)
P2-42	Direct observation of O6-methylguanine-induced futile mismatch repair attempts
	and subsequent double-strand break formation in <i>Xenopus</i> egg extracts.
	Reihi Sakamoto (Kyushu University)
P2-43	Looking for the Cdc45 Dimerization Scaffold via Ultra-Fast Single-Particle Tracking
	Larissa Sambel (Stanford University)
P2-44	The structure-specific nuclease Rad27/FEN-1 maintains the stability of the
(Session 02-5)	ribosomal RNA gene locus.
	Mariko Sasaki (NIG)
P2-45	Temperature-Dependent Mechanisms in Bacterial Growth

(Session 15-5)	Alberto Sassi (OIST)
P2-46	CMG is necessary and sufficient to recruit Mcm10 to promote its helicase activity
	in the budding yeast Saccharomyces cerevisiae
	Yuna Satake (Kochi Univ. of Tech.)
P2-47	Hi-C Analysis of Structural Variants: Understanding Genomic Rearrangements on
	3D Chromosome Structure in Yeast
	Yuki Sen (Univ. of Tokyo)
P2-48	Linker histone H1 serves as liquid-like "glue" of the chromatin domain
	Masa A. Shimazoe (NIG / SOKENDAI)
P2-49	The depletion of TRAIP results in the retention of PCNA on chromatin during mitosis, leads to inhibiting DNA replication initiation.
	Yasushi Shiomi (Univ. of Hyogo)
P2-50	Analysis of the role of the functionally unknown domain constituting DciA loader in replicative DnaB helicase loading in alpha-proteobacterium <i>Caulobacter</i> <i>crescentus</i>
	Shohei Sato (Kyushu University)
P2-51	Diverse actions of Mre11 nuclease during DNA end resection and DNA replication
(Session 14-5)	Katsunori Sugimoto (Rutgers)
P2-52	An ATR-PrimPol pathway continuously maintains tolerance to chronical heterochromatin-associated replication stress in oncogenic KRAS-driven cancer cells
	Taichi Igarashi (Kyoto University)
P2-53	Macromolecular clustering drives mitotic chromosome assembly
(Session 15-6)	Motoko Takahashi (The Cancer Inst.JFCR)
P2-54	Is the cGAS-STING pathway activated in ruptured micronucleus?
	Tohru Takaki (Francis Crick)
P2-55	The involvement of chromatin remodeling factor SMARCAD1 in response to DNA double strand breaks
	Miou Takasu (Kobe university)
P2-56	Fluorescence-based analysis for DNA damage response in living cell
(Session 15-7)	Arato Takedachi (Fukuoka University)
P2-57	ChIP-CryoEM of nucleosome targeting histone variants from cells
	Yoshimasa Takizawa (University of Tokyo)
P2-58	Identification of atypical replication origin in the metallothionein-encoding repeats
(Session 02-4)	in the budding yeast Saccharomyces cerevisiae
	Seiji Tanaka (Kochi Univ. of Tech.)
P2-59	Resection of DNA double-strand breaks activates MRN- and 9–1–1-dependent ATR
(Session 15-8)	checkpoint and end-processing pathways in <i>Xenopus</i> egg extracts
	Kensuke Tatsukawa (Kyushu University)
P2-60	Molecular mechanism of copy number fluctuation of CUP1 region in S. cerevisiae
	Tatsuki Toriyama (Kochi Univ. of Tech.)

P2-61	Mechanism of immune signalling factor sequestration on chromatin by the
	adenovirus core protein VII
	Kotaro Tsukada (University of Tokyo)
P2-62	Mechanism of DnaB helicase loading to <i>oriC</i> via the low affinity interaction with
	initiator protein DnaA for bidirectional replication initiation
	Takumi, Tsuruda (Kyushu University)
P2-63	Metabolic stress-induced long ncRNA transcription governs the formation of
	meiotic DNA breaks in the fission yeast
	Tsuruta Yusuke (TMU)
P2-64	Amido-bridged nucleic acid-modified antisense oligonucleotide targeting MCM8 as
	a cancer-specific chemosensitizer for platinum compounds
	Yuki Uchibori (Kyushu University)
P2-65	Fission yeast histone deacetylase Clr6 is repaired for the growth of cells with
(Session 14-6)	circular chromosomes
	Masaru Ueno (Hiroshima University)
P2-66	Analysis of age-related repetitive sequence instability driven by epigenetic changes
	Yuta Uneme (Univ. of Tokyo)
P2-67	STK19 facilitates the clearance of lesion-stalled RNAPII during transcription-
(Session 18-1)	coupled DNA repair
	Diana van den Heuvel (Diana van den Heuvel)
P2-68	Identification of budding yeast proteins that antagonize the mismatch repair
(Session 12-5)	system to promote hybrid fertility
D2 (0	Ting-Fang Wang (IMB, Academia Sinica)
P2-69	CDCA7 is an evolutionarily conserved hemimethylated DNA sensor in eukaryotes
(Session 18-2)	Isabel Wassing (Rockefeller Uni)
P2-70	Mechanisms of nucleosome uncoiling at the replication fork
(Session 18-3)	Oliver Willhoft (Francis Crick Inst)
P2-71	Pro-DSB components drive intermolecular chromosome condensation in distinct
(Session 18-4)	island regions during meiotic prophase
	Ellie Wright (University of Sussex)
P2-72	Recurrent transcriptional pausing and restart at centromeres causes gross chromosomal rearrangements through R-loop formation
	Ran XU (Osaka University)
P2-73 (Session 18-5)	Non-canonical functions of UHRF1 maintain DNA methylation homeostasis in cancer cells.
(30351011 10-3)	Kosuke Yamaguchi (NIG, Kanemaki-Lab)
P2-74	Roles of reverse gyrase in maintaining the genome architecture of
r 2-74	hyperthermophiles
	Kodai Yamaura (Kyoto university)
P2-75	Functional analysis of BRCA2 in hematopoiesis
12 15	Kosuke YAMAZAKI (TMiMS)

P2-76	Impacts of heavy water on DNA double-strand break repairs and cellular	
	transcription, potentially via quantum-level mechanisms underlying kinetic isotope effects	
	Takeshi Yasuda (QST)	
P2-77	Development of photoactivatable endonuclease for meiotic recombination	
(Session 18-6)	Hideyuki Yone (Univ. of Tokyo)	
P2-78	BRF2, a component of Type III TFIIIB, mediates redox stress response and genome	
	integrity via regulation of gene expression	
	Seobin Yoon (Chung-ang University)	
P2-79	Mechanisms in chromosome origin unwinding promoted by bacterial initiator	
(Session 18-7)	DnaA protein and a ubiquitous nucleoid-associated protein HU.	
	Ryusei Yoshida (Kyushu University)	
P2-80	Spatial organization of supercoil dynamics during DNA replication	
	Yoshiharu Kusano (JFCR)	
P2-81	Werner helicase and MutL α endonuclease control the fidelity of single-strand	
	annealing	
	Yoshitaka Kawasoe (Kyushu University)	
P2-82	Single-molecular Condensin I and Topoisomerase IIa compact DNA	
	Tsubota Yuko (Kyoto Univ.)	
P2-83	The RIF1-PP1 complex shapes DNA replication initiation zones to establish the	
(Session 18-8)	replication timing program	
	XIAOXUAN ZHU (NIG, Japan)	