

EACR

European Association
for Cancer Research

CONFERENCES

www.eacr.org

EACR Conference Chromosomes in Crisis

From Chromosomal Instability to Catastrophes in Cancer Genomes

03-05 November 2026 | Berlin, Germany

Scientific Programme Committee

Uri Ben-David (Co-Chair)

Aurélie Ernst (Co-Chair)

Florian Markowetz

Renata Basto

Scan the QR code to access online conference
resources, including poster abstracts



EACR onsite team



Chris Iliffe
Conference Officer



Kathryn Wass
Conferences Manager



Alexandra Boitor
Scientific Manager



Jacqueline Pochin
Team Coordinator

Conference dinner

Optional ticketed event: Wednesday 04 November, 19:30 (sold out)

The conference dinner will take place on the second night of the meeting. It will be an excellent opportunity for participants and speakers to get to know each other in a relaxed and informal environment. The three-course dinner will take place onsite, in the atmospheric Harnack House restaurant from 19:30.

Please note that this is an optional ticketed event, and that places are limited to 100 on a first-come-first-served basis.

Tickets for the conference dinner are not included in the registration fee.



EACR Conference
**SYSTEMS-LEVEL ENGINEERING
OF T-CELL SPECIFICITY**

Virtual event

01 - 02 December 2026

EACR Conference
**MECHANISMS OF CANCER AVOIDANCE:
FROM CELLS TO COMMUNITIES**

Virtual event

19 - 20 January 2027

EACR-Boehringer Ingelheim Conference
**INDUCED PROXIMITY:
DEGRADATION AND BEYOND**

Virtual event

03 - 04 February 2027

Find out more
about upcoming
conferences



EACR Conference
**ecDNA AND THE GENOMIC
CHAOS OF CANCER**

Virtual event

23 - 24 February 2027

16 top speakers including:

Hana Aliee	Lichun Ma
Charlotte Bunne	Eytan Ruppin
Trey Ideker	Aristotelis Tsirigos
Mo Lotfollahi	Linghua Wang

**where models help,
where they fall short,
and what comes next**

- Single-cell and spatial omics in cancer
- Computational and digital pathology
- Multimodal integration across imaging, pathology, genomics, and clinical data
- Foundation models, representation learning, and generative modeling
- Modeling cellular perturbation and treatment response for precision oncology
- Cancer genomics, tumour evolution, heterogeneity, and the tumour microenvironment

EACR Conference

**CANCER
BIOLOGY:**

Virtual Systems & Beyond

16 - 18 March 2027, Bergamo

eacr.org/conferences



EACR Conference

OVERCOMING THERAPY RESISTANCE:

Outsmarting intratumour
heterogeneity and
plasticity

20 - 22 April 2027, Lyon

eacr.org/conferences



16 top speakers including:

Nicola Aceto
Marta Kovatcheva
Ilaria Malanchi
Chris Marine

Frederic de Sauvage
Tuomas Tammela
Celine Vallot
Ashani Weeraratna

Tackling one of oncology's most persistent challenges

- Resolving tumour complexity
- Driver cancer cell states: MICs, persister cells, and dormancy
- Dissecting and rewiring the dynamic tumour microenvironment (TME)
- Emerging treatment strategies to contend with ITH and plasticity
- Where and when to treat: timing and sequencing of intervention

15 top speakers including:

Charles Swanton
Leila Akkari
Carl June
Lillian Siu

Joan Seoane
Anna Obenauf
Ton Schumacher
Miriam Merad

**Discover recent advances in
immunotherapy, spanning
basic science to clinical
studies**

- Mechanisms of action of immunotherapies
- Leveraging cell plasticity and metabolism
- Cancer vaccines
- Biomarkers of treatment response and mechanisms of treatment resistance
- Novel target identification

EACR Conference DEFENCE IS THE BEST ATTACK Immuno-Oncology Breakthroughs

11 - 13 May 2027, Barcelona

eacr.org/conferences



Chromosomes in Crisis

Tag us



@helloeacr | Wi-Fi: HH-Guest Password: Curium.96

Day 1 | Tuesday 03 November

From 11:30

REGISTRATION

Session 1
posters can be
put up

12:00-13:00

WELCOME REFRESHMENTS

A chance to meet fellow attendees and enjoy a light buffet

13:00-13:10

CONFERENCE WELCOME

Scientific Programme Committee

SESSION 1: GENETICS & GENOMICS

Chair: Aurélie Ernst

13:10-13:40

OPENING KEYNOTE LECTURE

Q&A: 13:40-13:55

David Pellman Harvard University & DFCI, USA

'Mechanisms driving the rapid evolution of genomes'

13:55-14:15

EMBO YOUNG INVESTIGATOR LECTURE

Q&A: 14:15-14:25

Aurélie Ernst DKFZ, Germany

'Digital pathology machine learning tool predicts chromothripsis from diagnostic hematoxylin and eosin tissue stain'

14:25-14:35

Husayn Pallikonda Francis Crick Institute, UK

Q&A: 14:35-14:40

Proffered Paper 1: 'Mechanistic diversity of chromosome 3p loss defines distinct chromosomal instability phenotypes in clear cell renal cell carcinoma'

14:40-14:45

EXHIBITOR INTRODUCTIONS

60-second pitches from exhibiting companies.

14:45-15:15

COFFEE, EXHIBITION AND SOLO MEET-UP

Solo travellers are invited to meet up at the EACR banner to connect with fellow adventurers

15:15-15:35

Nicholas McGranahan UCL, UK

Q&A: 15:35-15:45

'Order or chaos: deciphering lung cancer genome evolution'

15:45-16:15

Serena Nik-Zainal (pre-recorded presentation)

University of Cambridge, UK

'Recent advances in indel and structural variation signatures'

16:15-16:25

MOLECULAR ONCOLOGY CALL FOR CONTENT

16:25-16:35

POSTER SPOTLIGHTS

Poster 01: Thomas van Ravesteyn (Netherlands), 'Deterministic karyotype evolution in precancerous colonic organoids'

Poster 20: Katyayni Ganesan (Germany), 'Paired whole-genome and single-nucleus multiome profiling of pancreatic ductal adenocarcinoma across primary and metastatic sites'

Poster 40: Federica Camin (Italy), 'Cytoplasmic flooding of micronuclei disrupts nucleotide homeostasis and promotes genome instability'

16:35-17:35

SPEED NETWORKING

Invited speakers and the conference organisers will each host a table of participants, covering different topics for discussion

17:35-18:00

WELCOME RECEPTION BUFFET AND DRINKS

18:00-19:30

POSTER DISCUSSION SESSION 1

Presenters of posters 1-50 should stand by their boards.

Day 2 | Wednesday 04 November

08:15-08:45

EARLY POSTER VIEWING WITH COFFEE

Chair: Renata Basto

08:45-09:00

DE GRUYTER BRILL SPOTLIGHT

Izabela Żarczyńska De Gruyter Brill

'Academic publishing in the era of AI - navigating the ethical boundaries'

09:00-09:20

SESSION 2: CELL BIOLOGY

Renata Basto Institut Curie, France

Q&A: 09:20-09:30

'Mechanical constraints regulate embryonic stem cell mitosis in the developing brain'

09:30-09:40

Varvara-Rigina Louma Charité, Germany

Q&A: 09:40-09:45

Proffered Paper 2: 'ecDNA Reintegration Reshapes Local Chromatin and Gene Expression'

09:45-10:05

Ofer Shoshani Weizmann Institute, Israel

Q&A: 10:05-10:15

'Double-strand DNA break location dictates chromosomal fate and mechanisms of gene amplification'

Take down
session 1
posters

10:15-10:45

COFFEE BREAK & EXHIBITION

Session 2
posters can be
put up

10:45-11:05

Daniele Fachinetti Institut Curie, France

Q&A: 11:05-11:15

'Causes and Consequences of Centromeric Instability'

11:15-11:35
Q&A: 11:35-11:45

John Maciejowski MSKCC, USA
'Innate immune defenses in cancer'

11:45-11:55
Q&A: 11:55-12:00

Pierre Foidart University of Liege and CHU de Liège, Belgium
Proffered Paper 3: 'Whole-genome doubling drives immune evasion by silencing antigen presentation'

12:00-12:10

POSTER SPOTLIGHTS

Poster 60: Tobias Thomas Schmidt (USA), 'Escape from replicative crisis and immortalization precedes complex genome evolution'

Poster 75: Nikoleta Pateraki (Germany), 'A novel framework to dissect chromosome-specific dependencies upon errors in mitosis'

Poster 90: Tal Ben-Yishay (Israel), 'The evolutionary landscape and functional consequences of chromothripsis in human cancer cell lines'

12:10-13:00

 **LUNCH BREAK** *light refreshments will be served*

13:00-14:30

POSTER DISCUSSION SESSION 2

Presenters of posters 51-99 should stand by their boards.

SESSION 3: TECHNOLOGIES & MODELS

Chair: Florian Markowetz

14:30-14:50
Q&A: 14:50-15:00

Florian Markowetz CRUK Cambridge Institute, UK
'Measuring ongoing CIN from single-cell genomes'

15:00-15:10
Q&A: 15:10-15:15

Lukas Frank Princess Máxima Center, Netherlands
Proffered Paper 4: 'Multimodal imaging reveals how gene context shapes transcription and spatial organization of extrachromosomal DNA in cancer cells'

15:15-15:25
Q&A: 15:25-15:30

Sjors Middelkamp Princess Máxima Center, Netherlands
Proffered Paper 5: 'Pervasive but non-compounding aneuploidy in normal human colon tissue'

15:30-15:50
Q&A: 15:50-16:00

Jan Korbel EMBL, Germany
'Learning about chromosomal instability processes from integrating imaging and genomics'

16:00-16:30

 **COFFEE BREAK & EXHIBITION**

16:30-16:50
Q&A: 16:50-17:00

Sarah McClelland Barts Cancer Institute, UK
'Trials and tribulations on the journey to identify drivers of cancer genome evolution'

17:00-17:20 Q&A: 17:20-17:30	Susanne Lens UMC Utrecht, Netherlands 'Trisomy 7 establishes just-right WNT signalling in APC-mutant colorectal cancer'
17:30-18:30	PANEL DISCUSSION - CAREER JOURNEYS DECODED: FROM ACADEMIA, INDUSTRY, PUBLISHING AND BEYOND Samuel Bakhoun, Dr Nikki Burdett and Hartmut Vodermaier - moderated by Renata Basto
19:30	 OPTIONAL CONFERENCE DINNER (SOLD OUT) <i>For participants who have pre-purchased tickets. Taking place in Harnack House's onsite restaurant</i>

Day 3 | Thursday 05 November

08:15-09:00	 EARLY POSTER VIEWING WITH COFFEE
09:00-09:20 Q&A: 09:20-09:30	SESSION 4: ONCOLOGY & CLINICAL OPPORTUNITIES Chair: Uri Ben-David EMBO YOUNG INVESTIGATOR LECTURE Uri Ben-David Tel Aviv University, Israel 'Targeting aneuploidy: From tumor evolution to therapeutic opportunities'
09:30-09:50 Q&A: 09:50-10:00	Beth Weaver McArdle Laboratory for Cancer Research, USA 'Leveraging chromosomal crisis to optimize anti-cancer therapy'
10:00-10:10 Q&A: 10:10-10:15	Selene Mallia AUSL Reggio Emilia, Italy Proffered Paper 6: 'Chromatin-guided spatial separation of replication and transcription prevents genomic crisis in ALCL'
10:15-10:45	 COFFEE BREAK & EXHIBITION
10:45-11:05	Gerben Vader Princess Máxima Center, Netherlands 'Targeting cell division in chromosomally unstable cancer cells: finding 'KIF18A-like' mitotic regulators'
11:15-11:25 Q&A: 11:25-11:30	Jeanette Kittel UCL Cancer Institute, UK Proffered Paper 7: 'Tracking Extrachromosomal DNA Spatially and Temporally in Non-Small Cell Lung Cancer'
11:30-11:50 Q&A: 11:50-12:00	Samuel Bakhoun Geisel School of Medicine at Dartmouth / Volastra Therapeutics, USA 'Chromosomal instability as a therapeutic target'
12:00	SUMMARY, AWARDS AND DEPART

Travel grants

More information about EACR grants: eacr.org/travel-grant

EACR-Worldwide Cancer Research Travel Grants provide funds to help early-career EACR members and researchers based in low- or middle-income countries to participate in our conferences.

Congratulations to the recipients of the Travel Grants for this conference. Each recipient received a full registration free of charge and funds to assist with travel and accommodation costs.

- **SELENE MALLIA** ITALY
- **JEANETTE KITTEL** UK
- **TAL BEN-YISHAY** ISRAEL
- **NIJA GEORGE** INDIA
- **KARLA VALDIVIESO** GERMANY

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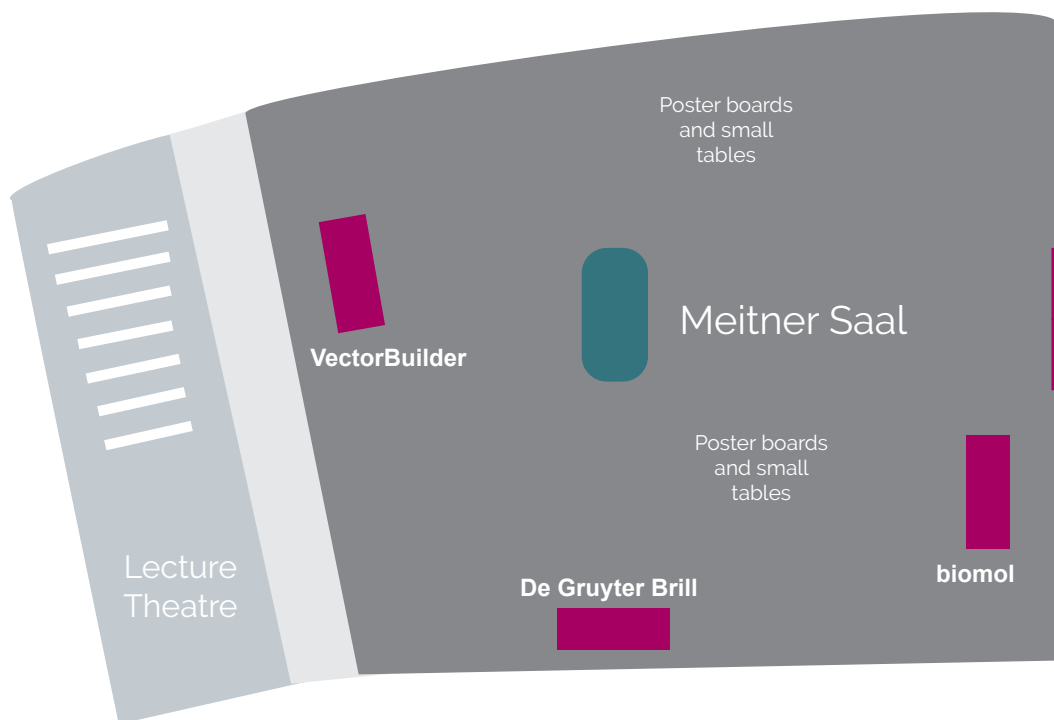
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We would also like to thank the Young Investigator Lectures sponsor:



Venue floor plan



Meet the exhibitors

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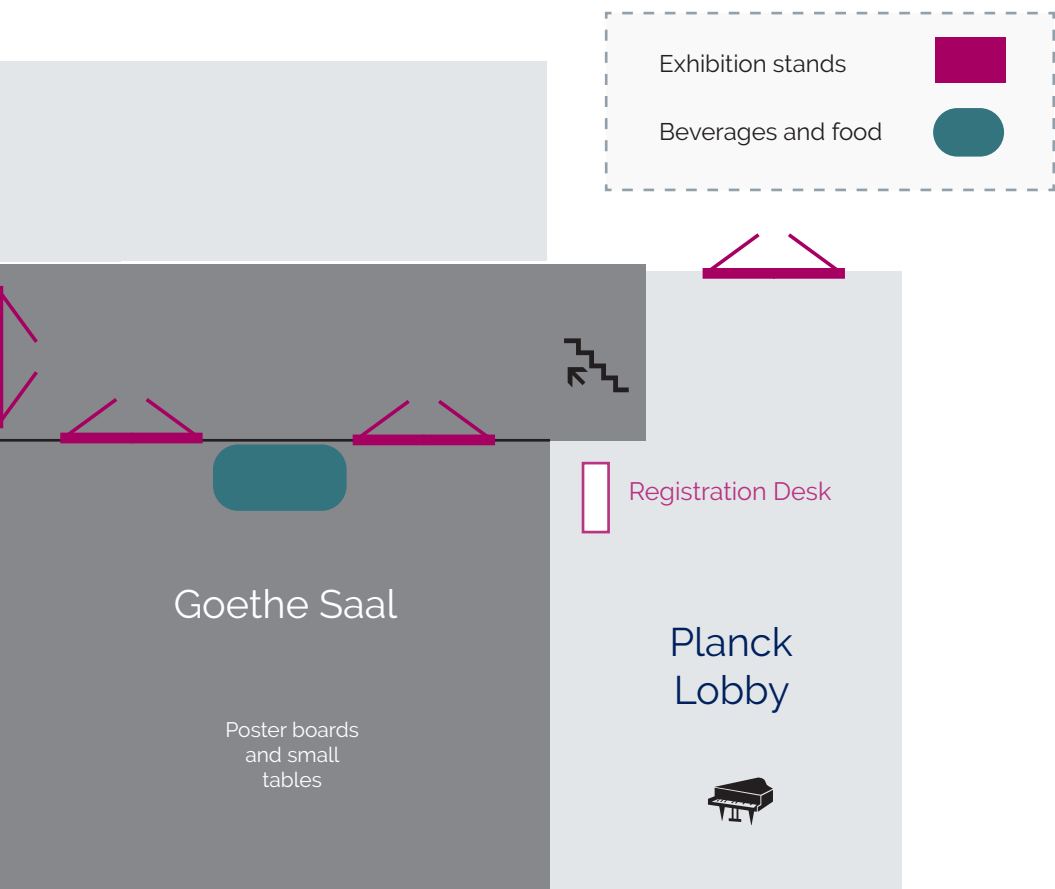
Izabela Żarczyńska, Magdalena Wierchowicka-Pańczak

Spotlight: Wednesday 04 November, 08:45-09:00

Izabela Żarczyńska, Open Access Portfolio Manager, De Gruyter Brill:

'Academic publishing in the era of AI-navigating the ethical boundaries'





biomol

Website: www.biomol.com

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Poster index

View abstracts when logged in at www.eacr.org/conference/chromosomesincris2026

Poster Spotlight session 1: Tuesday, 16:25 | Also as posters on Tuesday

1 Deterministic karyotype evolution in precancerous colonic organoids Presented by Thomas Van Ravesteyn, Hubrecht Institute and Oncode Institute, Utrecht, NETHERLANDS

20 Paired whole-genome and single-nucleus multiome profiling of pancreatic ductal adenocarcinoma across primary and metastatic sites Presented by Katayni Ganesan, Institute of Computational Cancer Biology, Cologne, GERMANY

40 Cytoplasmic flooding of micronuclei disrupts nucleotide homeostasis and promotes genome instability Presented by Federica Camin, IEO European Institute of Oncology IRCCS, Milan, ITALY

Poster Spotlight session 2: Wednesday, 12:00 | Also as posters on Wednesday

60 Escape from replicative crisis and immortalization precedes complex genome evolution Presented by Tobias Thomas Schmidt, Salk Institute for Biological Studies, La Jolla, CA, USA

75 A novel framework to dissect chromosome-specific dependencies upon errors in mitosis Presented by Nikoleta Pateraki, Institute of Molecular Biology, Mainz, GERMANY

90 The evolutionary landscape and functional consequences of chromothripsis in human cancer cell lines Presented by Tal Ben-Yishay, Tel Aviv University, ISRAEL

Poster presentations session 1: Tuesday, 18:00 - 19:30

1 [SPOTLIGHT] Deterministic karyotype evolution in precancerous colonic organoids Presented by Thomas Van Ravesteyn, Hubrecht Institute and Oncode Institute, Utrecht, NETHERLANDS

2 Investigation of chromosomal instability in gastric cancer using CRISPR/Cas9 generated human organoid and mouse models Presented by Anne-Marlen Ada, University Hospital and Faculty of Medicine Carl Gustav Carus, Dresden, GERMANY

3 Whole-Genome Duplication Creates a Dependency on BCL-xL/ BCL2L1 for Cell Viability Presented by Salar Ahmed, University of Copenhagen, DENMARK

4 From chromosome missegregation to cancer aneuploidy: disentangling occurrence and selection Presented by Fabio Alfieri, New York University Langone Health, USA, and European Institute of Oncology, Milan, ITALY

5 Loss of the Y chromosome drives plasticity in lung adenocarcinoma Presented by Gizem Altun, German Cancer Research Center (DKFZ) and Translation Lung Research Center Heidelberg (TLRC), Heidelberg, GERMANY

6 Single-cell longitudinal exploration of genetic drivers of complex karyotype acute myeloid leukemia progression Presented by Álvaro Andrades Delgado, European Molecular Biology Laboratory, Heidelberg, GERMANY

- 7 Mapping mitotic stress vulnerabilities: A multiomics approach for the identification of ultrafine anaphase bridge regulators Presented by Christina Andronikou, Roche Innovation Center Basel, SWITZERLAND
- 8 Automated Detection of Chromothripsis in Optical Genome Mapping Data Reveals Distinct Patterns of Chromosomal Instability in High-Grade Sarcomas Presented by Jef Baelen, KU Leuven, BELGIUM
- 9 From DNA Breaks to Oncogenic Signatures: Identifying the "Hit-and-Run" Mechanism of *H. pylori* Presented by Riham Barazi, Bar-Ilan University, Safed, ISRAEL
- 10 Mitotic Adaptation to KIF18A Loss in Whole-Genome-Doubled Cells Presented by Amelie Becker, RPTU Kaiserslautern-Landau, Kaiserslautern, GERMANY
- 11 Breakpoint-based mutational signatures reveal sequence determinants of structural variation in cancer Presented by Finnja Becker, Charité – Universitätsmedizin Berlin, GERMANY
- 12 In situ detection of chromosomal instability in cancer Presented by Bruno Beernaert, University of Oxford, UK
- 13 Resistance to ATR inhibition is associated with chromosomal instability in TNBC Presented by Aurora Bianchi, University of Trento, ITALY
- 14 Characterizing ecDNA epigenetic evolution in Neuroblastoma Presented by Roshni Biswas, Charité – Universitätsmedizin Berlin, and Berlin Institute for Medical Systems Biology, GERMANY
- 15 Exploring the cGAS-STING landscape in high-grade serous ovarian cancer Presented by Laura Bloxham, University of Manchester, UK
- 16 Reaping Returns on Repair: Commonalities in tumour evolution and mutational landscapes Presented by Nadejda Boev, Princess Margaret Cancer Centre, and University of Toronto, Toronto, ON, CANADA
- 17 Deciphering SMYD3 role in CIN-high triple negative breast cancer cells Presented by Giuseppina Caretti, University of Milan, ITALY
- 18 SMC5/6 Targets Oncogenic ecDNA to Suppress MYCN Transcription Presented by Nadine Brombacher, Max-Delbrück-Center (MDC) and Charité, Berlin, GERMANY
- 19 Towards ploidy-resolved computational analysis of whole genome doubling in high grade serous ovarian cancer Presented by Nikki Burdett, Peter MacCallum Cancer Centre, and University of Melbourne, Melbourne, VIC, AUSTRALIA
- 20 [SPOTLIGHT] Paired whole-genome and single-nucleus multiome profiling of pancreatic ductal adenocarcinoma across primary and metastatic sites Presented by Katyayni Ganesan, Institute of Computational Cancer Biology, Cologne, GERMANY
- 21 Adaptive aneuploidies are shaped by the initial population size Presented by Camilla Cancrini, IFOM, The AIRC Institute of Molecular Oncology, Milan, ITALY, and Pazmany Peter Catholic University, Budapest, HUNGARY
- 22 Integrating cancer genome reconstruction with CENP-A profiling reveals ectopic CENP-A redistribution in Hodgkin lymphoma Presented by Eleonora Cappelletti, IRCCS San Matteo Hospital Foundation, and University of Pavia, Pavia, ITALY

- 23 Complex karyotype is associated with widespread 3D chromatin remodeling and altered transcription in CLL Presented by Karolina Cernovska, Masaryk University, Brno, CZECH REPUBLIC
- 24 Engineering chromosomal instability via BRCA1/2 knockout in vitro Presented by Blas Chaves-Urbano, Spanish National Cancer Research Centre (CNIO), Madrid, SPAIN
- 25 Exploring the contribution of intrachromosomal telomeric insertions to shaping the cancer genome landscape Presented by Ilaria Cherchi, University of Trento, ITALY
- 26 Focal Amplifications in Canine Melanomas Highlight New Candidate Oncogenes for Rare Human Cancer Counterparts Presented by Caroline Confais, Univ Rennes, CNRS, and Unité de Pharmacologie Préclinique, Rennes, FRANCE
- 27 Probing the Molecular Origins of Chromosomal Instability in Osteosarcoma Presented by Cameron Durfee, Stanford Cancer Institute, California, USA
- 28 DDX27 promotes aneuploidy tolerance by mitigating aneuploidy-induced nucleolar stress through R-loop resolution Presented by Yonatan Eliezer, Tel-Aviv University, ISRAEL
- 29 SYNCRIP enhances temozolomide sensitivity through ATM signaling in glioblastoma Presented by Eom Jeonggyeong, Kyungpook National University, Daegu, SOUTH KOREA
- 30 Exploring the universal evolutionary nature of stress-induced mutagenesis to adapt to growth-limiting environments: molecular mechanisms and interplay with cell proliferation Presented by Amaia Ercilla, CIC bioGUNE, Derio, and CIBERONC, Madrid, SPAIN
- 31 Tracking the genome through chemotherapy: a single-patient, multi-timepoint study of chromosomal instability and treatment resistance in HGSOC Presented by Alicia Evans, Manchester Cancer Research Centre, UK
- 32 The Landscape of Chromosomal Instability in Pediatric Solid Tumors Presented by Roula Farag, Princess Maxima Center, Utrecht, NETHERLANDS
- 33 DDR-Fate: Single-cell phenotypic characterisation of DNA-damage Response dependencies identified from whole genome CRISPR screens Presented by Claire-Iona Faugeras, King's College London, and University College London, UK
- 34 Recombination preferences of Extrachromosomal DNA Presented by Martina Fernandez, Max Delbrück Center for Molecular Medicine, and MDC and Charité, Berlin, GERMANY
- 35 A primer on long-read telomereomics Presented by Lars Feuerbach, DKFZ, and German Cancer Consortium (DKTK), Heidelberg, GERMANY
- 36 Whole Genome CRISPR Screens to map the genetic determinants of radionuclide therapy of prostate cancer Presented by Julia Foucault, Queen Mary University of London, and King's College London, UK
- 37 nf-core/tumorevo allows automated and reproducible tumour evolutionary analysis from genomic sequencing data Presented by Virginia Gazziero, University of Trieste, and Human Technopole, Milan, ITALY
- 38 Transcription factor co-occupancy shapes the somatic mutational landscapes across regulatory regions in liver cancer Presented by Nija George, National Centre for Biological Sciences (NCBS - TIFR), Bangalore, Karnataka, INDIA

39 Consequences of Chromothripsis on Centromere Stability Presented by Nikolai Goncharov, Institut Curie, PSL Research University, CNRS, Paris, FRANCE

40 [SPOTLIGHT] Cytoplasmic flooding of micronuclei disrupts nucleotide homeostasis and promotes genome instability Presented by Federica Camin , IEO European Institute of Oncology IRCCS, Milan, ITALY

41 Glioblastoma associated aneuploidies are resistant to chronic acidosis Presented by Tamara Hamann, RPTU Kaiserslautern-Landau, Kaiserslautern, GERMANY

42 Exploiting IL-6-STAT3 signalling to target lymphoma cells with chromosomal instability Presented by Iris Harmsen, UMCG, Groningen, NETHERLANDS

43 Dicentricity and aberrant centromeric recombination in Robertsonian chromosomes provide a mechanistic drive towards chromothripsis and leukaemia Presented by Jonathan Higgins, Newcastle University, UK

44 Long-read single-cell RNA sequencing enables exploration of ovarian cancer's isoform landscape Presented by Kaisu Hiltunen, University of Basel, SWITZERLAND

45 Gene dosage, haplotype-specific context, and whole-genome doubling shape the consequences of monosomy in human cell lines Presented by Bastian Hinkel, RPTU Kaiserslautern-Landau, Kaiserslautern, GERMANY

46 Control of chromosome segregation by the ubiquitin ligase SCF-Grr1 in budding yeast Presented by Reikia Hocini, CRBM, University of Montpellier, FRANCE

47 Engineering Megabase-Scale Genomic Deletions to Study the Effects of Copy Number Alteration in Pancreatic Ductal Adenocarcinoma Evolution Presented by Golsa Jahangiri, Vall d'Hebron Instituto de Oncologia (VHIO), Barcelona, SPAIN

48 Extrachromosomal DNA amplifications exhibit distinct molecular characteristics and prognostic implications in gastric cancer Presented by Seunghyun Kang, Sungkyunkwan University, Suwon, SOUTH KOREA

49 Tracking Extrachromosomal DNA Spatially and Temporally in Non-Small Cell Lung Cancer Presented by Jeanette Kittel, University College London Cancer Institute, UK

50 Origin and Evolutionary Fate of Structural Variation in Cancer Presented by Gene Ching Chiek Koh, University of Cambridge, UK, and Sunway University, MALAYSIA

Poster presentations session 2: Wednesday, 13:00 - 14:30

51 Dynamic remodeling of HSR amplifications promotes tumor evolution and therapeutic resistance Presented by Gabriela koifman, Weizmann Institute of Science, Rehovot, ISRAEL

52 Investigating the Role of EP300 in Chromosomally Unstable Breast Cancer Presented by Daniëlle Koot, European Research Institute for the Biology of Ageing, and University Medical Center Groningen, Groningen, NETHERLANDS

53 CLSPN overexpression mediates high sensitivity of BRAF mutant colorectal cancer to CHK inhibition Presented by Ekaterina Korobkina, Charité – Universitätsmedizin Berlin, GERMANY

54 Eliminating copy number alteration effects in gene dependencies from the DepMap CRISPR screens Presented by Manasa Lanka, UMCG, Groningen, NETHERLANDS

55 Loss of the Y chromosome drives epigenetic and transcriptomic plasticity in lung adenocarcinoma Presented by Maria Llamazares Prada, German Cancer Research Center (DKFZ), and Translation Lung Research Center Heidelberg (TLRC), Heidelberg, GERMANY

56 High-throughput, high-content imaging to distinguish oncogene amplification states in cancer cells Presented by Lauren Masters, Baylor College of Medicine, Texas, USA

57 ATRX loss primes paediatric high-grade glioma cells for ALT activation and creates therapeutic vulnerabilities to genotoxic chemotherapies Presented by Natalie Mattis, University of Oxford, UK

58 Origin of chromosomal instability during acinar to ductal metaplasia in pancreatic cancer Presented by Francisco Javier Mendoza León, Universidad de Sevilla, SPAIN

59 The effect of aneuploidy on chromosome territories in childhood acute lymphoblastic leukemia Presented by Larissa Helena Moura Castro, Lund University, SWEDEN

60 [SPOTLIGHT] Escape from replicative crisis and immortalization precedes complex genome evolution Presented by Tobias Thomas Schmidt, Salk Institute for Biological Studies, La Jolla, CA, USA

61 ecDNA-containing cells as a target of irradiation-induced damage Presented by Marco Novais-Cruz, Netherlands Cancer Institute, Amsterdam, Oncode Institute and Princess Máxima Center for Pediatric Oncology, Utrecht, NETHERLANDS

62 Rational Identification and In Vitro Validation of Novel Blood-Brain Barrier (BBB) Penetrant PARP1 Inhibitors Presented by Olabimpe Olayinka, University of Cambridge, UK

63 AI-based prediction of chromothripsis in cancer from standard diagnostic hematoxylin and eosin tissue staining Presented by Jan Otonicar, German Cancer Research Center (DKFZ), and Heidelberg University, Heidelberg, GERMANY

64 Genomic complexity is associated with higher metastatic potential Presented by Anine Alvsvåg Ottestad, Oslo University Hospital, NORWAY

65 Binary karyotypes are universally selected for across cancers Presented by Nenad Pavin, University of Zagreb, CROATIA

66 Elucidating the clinical importance of chromosomal instability in high-risk neuroblastoma Presented by Beatrice Pichon, St Anna Children's Cancer Research Institute (CCRI), Vienna, AUSTRIA

67 Centromere remodeling in lymphoma cell lines Presented by Francesca Piras, IRCCS San Matteo Hospital Foundation, and University of Pavia, Pavia, ITALY

68 Patterns of chromosomal instability and their clinical correlates in pediatric central nervous system tumors Presented by Lara Pohl, University Medical Center Hamburg-Eppendorf, and Research Institute Children's Cancer Center, Hamburg, GERMANY

- 69 Dissecting how the disruption of replication stress response pathways shapes copy number alteration landscapes using single-cell genome sequencing
Presented by Joana Reis de Andrade, Barts Cancer Institute, London, UK
- 70 The pro-tumorigenic high fat diet contributes to the metabolism and epigenome of intestinal stem cells Presented by Eliot Richez, Institut Cochin, Paris, FRANCE
- 71 FAM111A restrains pathological activity of the Alternative Lengthening of Telomeres pathway through resolution of telomeric DNA-protein crosslinks
Presented by Anna Rose, Weatherall Institute of Molecular Medicine, OXFORD, UK
- 72 FANCM inhibition does not equally sensitize all ALT cancer cells Presented by Silvia Sberna, Roche Pharma Research and Early Development, Basel, SWITZERLAND
- 73 The SKA complex is a mitotic vulnerability of chromosomally unstable cancers
Presented by Maud Schoot Uiterkamp, Princess Máxima Center and Onco Institute, Utrecht, NETHERLANDS
- 74 Single-cell karyotype inference reveals context-dependent proliferative consequences of chromosomal instability Presented by Michael Schubert, Medical University of Innsbruck, AUSTRIA
- 75 [SPOTLIGHT] A novel framework to dissect chromosome-specific dependencies upon errors in mitosis Presented by Nikoleta Pateraki, Institute of Molecular Biology, Mainz, GERMANY
- 76 Loss of Chromosome-arm 17p Renders Breast Cancer Cells Vulnerable to AURKB Inhibition Presented by Eran Sdeor, Tel Aviv University, ISRAEL
- 77 Chromosomal instability shapes tumor evolution and clinical progression in gastrointestinal stromal tumors Presented by Cesar Serrano-Garcia, Vall d'Hebron Institute of Oncology (VHIO), Barcelona, SPAIN
- 78 Characterization of a novel cytoplasmic dsDNA response pathway for immune checkpoint modulation in breast cancer and sarcomas Presented by Dana Sherill Rofo, Hadassah Medical Organization, Jerusalem, ISRAEL
- 79 Genomic instability and chromothripsis drive the evolution of malignant pleural mesothelioma Presented by Kitty Sherwood, University of Edinburgh, UK
- 80 Uncovering centromere dynamics in the developmental origins of neuroblastoma Presented by Anna Shmakova, Institut Curie, Paris, FRANCE
- 81 Dissecting Whole Genome Doubling-Induced Microenvironment Remodeling Presented by Valentina Sladky, Medical University of Innsbruck, AUSTRIA
- 82 Comparing the immediate and long-term consequences of common mechanisms of whole-genome doubling Presented by Rachel Slutsky, Tel Aviv University, ISRAEL
- 83 Identification of new therapy targets in high-risk IG::MYC rearranged acute lymphoblastic leukaemia Presented by Phoebe Snow, Newcastle University, UK
- 84 Genomic Topological Stress Drives the Formation of Larger Extrachromosomal Circular DNA at Affected Loci Presented by Maria Stefanova, Charité—Universitätsmedizin Berlin, GERMANY

- 85 Centromere copy number variation in HER2-positive breast cancer Presented by Joanneke Stoof, Dublin City University, IRELAND
- 86 Simulating Fitness-based Evolution of Copy-number Alterations with SimChA Presented by Adam Streck, Institute for Computational Cancer Biology (ICCB), Cologne, GERMANY
- 87 Establishment and maintenance of WGD in a prostate cell model Presented by Tegan Underwood, University of Oxford, UK
- 88 A second CIP2A–TopBP1 interaction site is critical for maintaining chromosomal stability and survival of BRCA1/2-deficient cells Presented by Daniel Ürges, Universität Zürich and Universitätsspital Zürich, SWITZERLAND
- 89 Timing-dependent clearance of senescent cells mitigates radiation-induced accelerated aging Presented by Karla Valdivieso, Mayo Clinic, Rochester MN, USA
- 90 [SPOTLIGHT] The evolutionary landscape and functional consequences of chromothripsis in human cancer cell lines Presented by Tal Ben-Yishay, Tel Aviv University, ISRAEL
- 91 CIII-mediated oligomerization stabilizes RIF1 at DNA double-strand breaks and promotes shieldin recruitment Presented by Yin Wang, The University of Hong Kong, HONG KONG
- 92 Selective autophagy of whole micronuclei suppresses chromosomal instability Presented by Nikolaus Watson, European Molecular Biology Laboratory (EMBL), Heidelberg, GERMANY, and Danish Cancer Institute, Copenhagen, DENMARK
- 93 Homotypic atypical fusion events among non-malignant M13SV1 breast epithelial cells accrued massive genomic instability linked with cancer-associated transcriptional changes Presented by Julian Weiler, Witten/Herdecke University, GERMANY
- 94 Telomere-to-telomere assembly reveals structural diversity of isochromosome 17q in medulloblastoma Presented by Eleanor Woodward, Newcastle University, UK
- 95 Chromosome mis-segregation biases revealed by Micronucleus and same-cell Main nucleus genome analysis (MnM-Seq) Presented by Robin Xu, Charité – Universitätsmedizin Berlin, and Experimental and Clinical Research Center (ECRC), Berlin, GERMANY
- 96 Aberrant Chromatin 3D Organization and Transcriptional Dysregulation in Aneuploid Pediatric B-cell Precursor Acute Lymphoblastic Leukemia Presented by Minjun Yang, Lund University, SWEDEN
- 97 Cancer cells exhibit a distinct, complementary, aneuploidy-dependent response to Tumor Treating Fields and Spindle Assembly Checkpoint inhibition Presented by Johanna Zerbib, Tel-Aviv University, ISRAEL
- 98 Single-cell genomics and imaging analysis identify ploidy-dependent determinants of KIF18A response in osteosarcoma Presented by Daniel Zhang, University of California, San Francisco, USA
- 99 Distinct roles of TOP3A and BLM in the processing of ultrafine anaphase bridges Presented by Shenglin Zhang, The University of Hong Kong, HONG KONG

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