

## Conference Programme

last updated 20/02/2023

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### Wednesday, 15 March 2023

Auditorium

#### SIC Young Investigators Meeting

10:30 – 12:30

SIC Members only – in Italian language (not eligible for CME)

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#### Poster Mounting

10:30 – 13:00

Poster Area

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#### Opening Remarks & Keynote Lecture

13:00 – 14:00

Auditorium

13:00

#### Welcome & Opening Remarks

Alberto Bardelli (Co-Chair EACR)  
Michael B. Kastan (Co-Chair AACR)  
Nicola Normanno (Co-Chair SIC)

#### The Pezcoller Foundation Presentation

Speaker: Enzo Galligioni (Italy)

13:15

#### The Pezcoller Foundation Lecture: Combination of DNA Repair Inhibitors and Immunotherapy for Cancer Patients

Speaker: Alan D. D'Andrea (USA)

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14:45 – 15:30

Coffee Break/ Exhibition/ Poster Viewing

Poster &  
Exhibition Area

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14:30 – 15:00

Promega Sponsored Industry Session

Not eligible for CME credit

Auditorium

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**Session 1: DNA Repair Mechanisms****Auditorium****15:30 – 17:20**Session Chair: Karlene Cimprich (USA)

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- 15:30                    **DNA Repair During Replication: A Link to Inflammation**  
Speaker: Dana Brnzei (Italy)
- 16:00                    **Replication Fork Remodeling and Anti-tumor Immunity**  
Speaker: Alberto Ciccia (USA)
- 16:30                    **Protecting the Genome Through Homologous Recombination**  
Speaker: Maria Jasin (USA)
- 17:00                    **p53 Prevents the Aberrant Processing of Nascent DNA at Stalled Forks**  
Presenter: C.F. Cheek (Singapore)
- 17:10                    **Pan-cancer Immunogenomic Landscape of Homologous Recombination Deficiency**  
Presenter: D. Gulhan (United States)
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**17:20 – 17:35****Transition Break**

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**Session 2: Immune Response and Evasion****Auditorium****17:35 – 18:55**Session Chair: Alberto Bardelli (Italy)

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- 17:35                    **Deciphering the Immune-genomic Landscape in Melanoma**  
Speaker: Yardena Samuels (Israel)
- 18:05                    **Tumour and Host Factors Regulating Immunotherapy Efficacy**  
Speaker: Thomas F. Gajewski (USA)
- 18:35                    **Immune Evasion Determines Driver landscape and Influences Response to Immunotherapy**  
Presenter: L. Zapata (United Kingdom)
- 18:45                    **Genetic Immune Escape Landscape in Primary and Metastatic Cancer**  
Presenter: F. Martinez-Jimenez (Spain)
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**Welcome Reception, Exhibition & Poster Viewing****19:00 – 20:00**

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-end day 1-

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## Thursday, 16 March 2023

### Meet the Expert – Interactive Session

Auditorium

08:00 – 08:30

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08:00                      **The Co-evolution of the Genome and Epigenome in Colorectal Cancer**  
Speaker: Andrea Sottoriva (Italy)

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### Session 3: Alterations in DNA Repair and Neoantigens

Auditorium

08:30 – 10:05

Session Chair: Alan D'Andrea (USA)

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08:30                      **Diagnostic and Therapeutic Implications of Replication Repair Deficiency in Children and Young Adults**  
Speaker: Uri Tabori (Canada)

09:00                      **Concurrent Homologous Recombination Deficiency and RB1 Loss Predicts Enhanced Immunological Responses and Longer Survival in High-Grade Serous Ovarian Cancer**  
Presenter: [D. Garsed](#) (Australia)

09:10                      **Identification and Validation of Viral Antigens Sharing Sequence and Structural Homology with Tumor-associated Antigens (TAAs)**  
Presenter: [C. Ragone](#) (Italy)

09:20                      **Giorgio Prodi Lecture – Introduction by SIC**  
**Understanding the determinants of therapy resistance: a journey into my METaverso**  
Speaker: Silvia Giordano (Italy)

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10:05 – 10:30

**Coffee Break/ Exhibition/ Poster Viewing/  
Agilent Industry Spotlight**

**Poster &  
Exhibition Area**

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### Session 4: Immunotherapy and Genomic Alterations

Auditorium

10:30 – 12:20

Session Chair: Gabriella Sozzi (Italy)

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10:30                      **Exploiting DNA Damage Response to Identify New Therapeutic Vulnerabilities in Cancer**  
Speaker: Giovanni Germano (Italy)

11:00                      **Immune Responses Triggered by Abrogation of BRCA1/2 Tumour Suppressors**  
Speaker: Madalena Tarsounas (United Kingdom)

11:30                      **Targeting Energetic Vulnerabilities in NSCLC**  
Speaker: Monica Ganzinelli (Italy)

12:00                      **SWI/SNF Factors are Epigenetically Involved in Both DNA Repair and Tumor-associated Immune Response Pathways**  
Presenter: [A. Bakr](#) (Germany)

12:10                      **The Chemokine CXCL12 Enhances Anti-tumor Immune Responses Through CXCR4**  
Presenter: [F. Caprioglio](#) (Italy)

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12:20 – 15:00	Lunch/ Exhibition/ Poster Viewing / Posters in the Spotlight 1	Poster & Exhibition Area
12:45 – 14:15	Posters in the Spotlight 1 Session Chair: To be announced	
12:45	<b>The relationship between spliceosome mutations and immune activation in cancer</b> H. McMillan, K. Savage, <u>K. Lappin</u> (United Kingdom)	
12:55	<b>Maps of DNA damage and repair in colorectal cancer to explore therapeutic opportunities for chemotherapeutic alkylating agents</b> <u>E. López-Arribillaga</u> , K. Anshu, H. Kranas, F. Muiños, G. Espadas-García, M. Pinheiro, E. Sabidó, A.D. González-Pérez, V. González, N. López-Bigas (Spain)	
13:05	<b>ATR Inhibition Sensitizes Cells to Telomeric 8-oxo-Guanine Induced Replication Stress, Triggering Cytoplasmic DNA Sensing</b> <u>R. Barnes</u> , S. Thosar, P. Opresko (United States)	
13:15	<b>Impact of Neoantigen Clonality on Efficacy of Adoptive Cell Therapy using Tumor Infiltrating Lymphocytes in Non-small Cell Lung Cancer</b> <u>B. Creelan</u> , C. Wang, S. Antonia, S. Yoder, J. Yao, J. Conejo-Garcia, E. Haura, J. Teer (United States)	
13:25	<b>Nintedanib-Integrin Ligand Conjugates as Dual-Targeting toward the immunosuppressive fibrotic niche of the tumor microenvironment</b> <u>F. Bianchini</u> , E. Andreucci, K. Bugatti, S. Peppicelli, J. Ruzzolini, R. Amato, L. Battistini, A. Sartori, F. Zanardi (Italy)	
13:35	<b>Therapy-induced senescence upregulates antigen presentation and promotes T cell activation resulting in Acute Myeloid Leukaemia eradication</b> <u>D. Gilioli</u> , S. Fusco, T. Tavella, K. Giannetti, A. Conti, M. Schönlein, I. Merelli, L. Vago, C. Schmitt, R. Di Micco (Italy)	
13:45	<b>Targeting G2/M cell cycle regulator, WEE1, to enhance the antitumor immune response of PD-L1 blockade in small cell lung cancer</b> <u>T. Sen</u> (United States)	
13:55	<b>MiR-302b-based therapy impacts both DNA repair mechanisms in tumor cells and M2 macrophage switch in tumor microenvironment</b> <u>A. Cataldo</u> , I. Plantamura, V. Fogazzi, G. Cosentino, S. Romero-Cordoba, V. Cancila, C. Tripodo, E. Tagliabue, M.V. Iorio (Italy)	
14:05	<b>Polymeric nanocapsules loaded with Toll-like receptors ligands to reprogram Tumor Associated Macrophages for cancer immunotherapy</b> <u>C. Anfray</u> , C. Fernandez Varela, A. Ummarino, F. Mainini, J. Crecente-Campo, M. José Alonso, F. Torres Andón, P. Allavena (Italy)	
14:00 – 14:30	<b>Cellecta Sponsored Symposium</b> Not eligible for CME credit	Auditorium

**Session 5: DNA Damage Response**

**Auditorium**

**15:00 – 16:25**

Session Chair: Thomas Helleday (UK)

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15:00

**Keynote Lecture: DNA Damage and Transcriptional Modulation**

Speaker: Fabrizio D'Adda di Fagagna (Italy)

15:45

**RNA Meets DNA: Dangerous Liaisons in the Genome**

Speaker: Karlene Cimprich (USA)

16:15

**PRMT1 Plays a Role in DNA Repair and is a Novel Therapeutic Target in Clear Cell Renal Cell Carcinoma**

Presenter: L. Ailles (Canada)

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**16:25 – 16:55**

**Coffee Break/ Exhibition/ Poster Viewing/  
Industry Spotlight**

**Poster &  
Exhibition Area**

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**Session 6: Synthetic Lethality from Discovery to Clinical Implementation**

**Auditorium**

**16:55 – 18:15**

Session Chair: Caroline Dive (UK)

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- 16:55                      **Targeting the DDR Through Metabolism, from Bench to Bedside**  
Speaker: Thomas Helleday (UK)
- 17:25                      **Clinical Implications of PARP Inhibitor in Ovarian Cancer Treatment: State of the Art and Future Perspectives**  
Speaker: Domenica Lorusso (Italy)
- 17:55                      **Loss of H2AX Counteracts Replication Fork Degradation and Promotes PARPi Resistance in BRCA-deficient Tumors**  
Presenter: D. Dibitto (Switzerland)
- 18:05                      **Targeting DNA2 Overcomes Metabolic Reprogramming in 1q21 Multiple Myeloma**  
Presenter: N. Thongon (United States)
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**Poster Viewing & Defense Session**

**18:15 – 19:15**

**Poster & Exhibition Area**

Odd Numbers 18:15 - 18:45

Even Numbers 18:45 - 19:15

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**SIC General Assembly**

**19:15 – 20:15**

SIC Members only – in Italian language

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**Auditorium**

**Conference Dinner**

**20:00 – 22:30**

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**Palazzo Borghese**

-end day 2-

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## Friday, 17 March 2023

**Meet the Expert – Interactive Session**  
**08:00 – 08:30**

**Auditorium**

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08:00                      **Replication Stress**  
Speaker: Karlene Cimprich (USA)

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**Session 7: Combining Targeting DNA Repair Pathways and Immune Modulation**

**Auditorium**

**08:30 – 10:10**

Session Chair: Paola Chiarugi (Italy)

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08:30                      **Manipulating Tumour Inflammation to Boost the Immune Response to Cancer**  
Speaker: Santiago Zelenay (UK)

09:00                      **Evolutionary Dynamics and Immune Selection in Chromosomally Instable Tumors**  
Speaker: Christina Curtis (USA)

09:30                      **Inflammatory Responses to DNA Damage Direct the Tumor Immune Microenvironment**  
Speaker: Roger A. Greenberg (US)

10:00                      **Jumonji Histone Demethylases Contribute to DNA Repair and Immune Suppression and Drive Therapeutic Resistance in Lung Cancer**  
Presenter: E.D. Martinez (United States)

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**10:10 – 10:40**                      **Coffee Break/ Exhibition/ Poster Viewing/ Industry Spotlight**

**Poster & Exhibition Area**

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**Session 8: Artificial Intelligence: Diagnostic and Therapeutics**

**Auditorium**

**10:40 – 11:50**

Session Chair: Andrea Sottoriva (Italy)

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10:40                      **p53 as a Paradigm for Cross-talk Between DNA Damage and Immunity**  
Speaker: Benjamin Greenbaum (United States)

11:10                      **Mutational Signatures of Cancer Treatments**  
Speaker: Núria López-Bigas (Spain)

11:40                      **Erosion of Epigenetic Memory Reactivates Transposable Elements in AML Patients: Cause and Consequences of TE Reactivation**  
Presenter: A. Pezone (Italy)

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<b>11:50 – 13:50</b>	<b>Lunch/ Exhibition/ Poster Viewing/ Industry Spotlight / Posters in the Spotlight 2</b>	<b>Poster &amp; Exhibition Area</b>
<b>12:00 – 13:30</b>	<b>Posters in the Spotlight 2</b> Session Chair: to be announced	
12:00	<b>PIN1-induced isomerization of CtIP governs replication forkstability</b> <u>F. Vivalda</u> , H. Dogan, C. Von Aesch, S. Wild, A. Porro, D. Dibitto, S. Rottenberg, A.A. Sartori (Switzerland)	
12:10	<b>Identification of Nonsense Mediated Decay Inhibitors to alter Immune Landscape</b> <u>N. Wyhs</u> , A. Cook, S. Sur, L. Dobbyn, B. Ptak, E. Hsiue, B. Vogelstein, N. Papadopoulos, S. Zhou, K. Kinzler (United States)	
12:20	<b>A novel DNA damaging risk factor in the progression of oral cancer</b> <u>C. Darido</u> , J. Boath, Y. Bai, C. Farah (Australia)	
12:30	<b>ATM regulates differentiation of myofibroblastic cancer-associated fibroblasts and can be targeted to overcome immunotherapy resistance</b> <u>M. Mellone</u> (United Kingdom)	
12:40	<b>Tumor Mutational Burden and genomic alterations associated with sensitivity to immunotherapy in patients enrolled in the Italian Registry of Actionable Mutations (RATIONAL)</b> <u>B. Ignoto</u> , R. Esposito Abate, S. Novello, G. Curigliano, M. Milella, G. Pruneri, V. Guarneri, C. Pinto, N. Normanno, A. De Luca (Italy)	
12:50	<b>High levels of RECQL4 DNA helicase correlate with low numbers of tumour-infiltrating lymphocytes driving poor clinical outcome in patients of malignant melanoma</b> <u>S. Egea Rodriguez</u> , M. Philip, R. Varaljai, D. Schadendorf, S. Horn, I. Helfrich (Germany)	
13:00	<b>A model to explain the synthetic lethality of PARP1- and BRCA2-deficiency</b> <u>M. Petropoulos</u> , A. Karamichali, G. Rossetti, L. Iacovino, A. Freudenmann, V. Dionellis, S. Sotiriou, T. Halazonetis (Switzerland)	
13:10	<b>Targeting Carbonic Anhydrase IX sensitizes prostate cancer cells to lactic acid-mediated ferroptosis resistance.</b> <u>E. Pardella</u> , L. Ippolito, M. Iozzo, A. Nocentini, G. Sandrini, C.T. Supuran, A. Morandi, E. Giannoni, G. Comito, P. Chiarugi (Italy)	
13:20	<b>An FBXL12-FANCD2 regulatory axis links replication fork progression to immune evasion in neuroblastoma</b> <u>A. Brunner</u> , Q. Li, S. Fisticaro, J.A. Wohlschlegel, J. Lehtiö, C. Spruck, J.K. Rantala, L.M. Orre, O. Sangfelt (Sweden)	

**Session 9: Therapeutic Targets in DNA Repair Pathways**

**Auditorium**

**13:50 – 14:30**

Session Chair: Nicola Normanno (Italy)

13:50

**Therapeutic Targeting of DNA Damage Response Pathways**  
Michael B. Kastan (USA)



14:20

**The ATR-Chk1-Wee1 Pathway is a Critical Dependency in the Context of DNA Damage and Replicative Stress in Osteosarcoma**  
Presenter: E.A. Sweet-Cordero (United States)

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**Closing Keynote Lecture & SIC Awards**

**Auditorium**

**14:30 – 15:30**

Session Co-Chairs: Nicola Normanno & Alberto Bardelli (Italy)

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14:30

**Keynote Lecture: DNA graffiti caused by abnormalities of replicative repair: What's new and how to use it**  
Speaker: Serena Nik-Zainal (United Kingdom)

15:15

**SIC Awards & EAS 2023 Highlights**

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-end day 3-