

6th EU-US Conference to be held at Udine, Italy, Sept 24-28, 2017

# PROGRAM

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Update: 2017-07-25

**SUNDAY, September 24, 2017 – Teatro Giovanni da Udine**  
(<https://www.teatroudine.it/>)

15:00-17:00	Registrations
17:00-17:50	Welcome
17:00-17:15	<i>Gianluca Tell</i> : Welcome and Introductory Remarks
17:15-17:45	Institutional Welcomes <i>Prof. Alberto Felice De Toni, Rector of the University of Udine,</i> Other Institution Welcome Addresses
17:45-19:00	Opening Plenary/Keynote Lecture
17:45-18:00	<i>Eugenia Dogliotti</i> : Opening Keynote Introduction
18:00-19:00	<i>Tomas Lindahl, Nobel Prize for Chemistry 2015</i> : Enzymatic surveillance of DNA instability
19:30-22:00	Buffet (sponsored by the Organizers)

## MONDAY, September 25, 2017 – AULA 3, POLO ECONOMICO e GIURIDICO

- 8:30-10:40      **Session 1 - Replication Stress**  
8:30              *Alexander Bürkle* - Session Chair  
8:40              *Hocine Mankouri*: Analysis of replication-associated mutagenesis at a single stalled replication fork  
9:10              *Dana Branzei*: Molecular studies of DDX11/Chl1 helicase implicated in the Warsaw breakage syndrome  
9:40              *Matthias Dobbstein*: p53 and checkpoint signaling as determinants of DNA replication stress  
10:10             *Alessandro Vindigni*: New mechanisms of replication stress response to cancer chemotherapeutics
- 10:40-11:10      Coffee
- 11:10-13:00      **Session 2 - DNA editing: Mechanisms underlying mutational signatures in human cancers**  
11:00             *Robert W. Sobol* - Session Chair  
11:10             *Ludmil Alexandrov*: Signatures of mutational processes in human cancer  
11:40             *David H. Wilson III*: Repair mechanisms for endogenous DNA damage  
12:10             *Samuel H. Wilson*: Modulating the DNA polymerase reaction equilibrium through chemical biology  
12:40             *TBD*: Speaker chosen from submitted abstracts
- 13:00-14:30      LUNCH - provided
- 14:30-16:30      **Session 3 - Regulatory mechanisms of RNA functions in genome stability**  
14:30             *Gianluca Tell* - Session Chair  
14:40             *Martin A.M. Reijns*: Genome-embedded ribonucleotides: the good, the bad and the ugly  
15:10             *Francesca Storici*: DNA repair by template RNA  
15:40             *Fabrizio D'Adda di Fagagna*: The role of non-coding RNA in the DNA damage response  
16:10             *Hilde Nilsen*: Implication of SMUG1 RNA processing activity for telomere maintenance
- 16:30-17:00      Coffee
- 17:00-19:00      Poster Session
- 19:00              DINNER - on your own between different choices proposed

### **Spouse Program (Optional and limited availability):**

- 9:00-16:00      Visit to the Roman city of Aquileia (Basilica, Roman ruins and the exposition "Faces from Palmira"): To be confirmed

## TUESDAY, September 26, 2017 – AULA 3, POLO ECONOMICO e GIURIDICO

### 8:30-10:30 **Session 4 - Non-canonical action and novel regulators of DNA repair**

8:30 *Eugenia Dogliotti* - Session Chair

8:40 *Patrick Sung*: Novel role of the BRCA1-BARD1 complex in RAD51-mediated homologous recombination

9:10 *John Tainer*: Flap endonuclease 1 employs DNA sculpting and phosphate steering to ensure specific 5'-flap incision to prevent genome instability

9:40 *Alan Tomkinson*: Targeting mitochondrial DNA repair in cancer cells

10:10 *Jean-Marc Egly*: Cockayne syndrome A and B proteins regulate transcription arrest through a ubiquitin/proteasome degradation process

10:40-11:00 Coffee

### 11:00-13:00 **Session 5 - DNA damage, epigenetics and DNA repair**

11:00 *David H. Wilson III* - Session Chair

11:10 *Roderick J. O'Sullivan*: Interrogating the mechanism of Alternative Lengthening of Telomeres

11:40 *Gaëlle Legube*: Chromosome and chromatin dynamics during DNA double strand break repair

12:10 *Primo Schär*: DNA repair mediated DNA demethylation generates site-directed chromatin plasticity

12:40 *Boris Pfander*: Chromatin constitutes a bottleneck in the response to double strand breaks

13:00-14:30 LUNCH - provided

### 14:30-16:30 **Session 6 - Stability of the genome in aging and non-neoplastic disease**

14:30 *Eugenia Dogliotti* - Session Chair

14:40 *Björn Schumacher*: Non-cell-autonomous regulation of the DNA damage response

15:10 *Tohru Minamoto*: A critical role of cellular senescence in metabolic and cardiovascular disease

15:40 *Vilhelm Bohr*: DNA damage, neurodegeneration and mitochondrial dysfunction

16:10 *Pier Giorgio Mastroberardino*: DNA damage and repair in chronic neurodegeneration

16:40-17:00 Coffee

17:00-19:00 Poster Session

19:00 DINNER - on your own between different choices proposed

### **Spouse Program (Optional and limited availability):**

9:00-16:00 Visit to the Miramare Castle and Trieste city: To be confirmed

**WEDNESDAY, September 27, 2017 – AULA 3, POLO ECONOMICO e GIURIDICO**

- 8:30-10:30      **Session 7 - Advanced technologies for analysis of DNA repair and the DNA damage response**
- 8:30              *Alan Tomkinson* - Session Chair
- 8:40              *Elisa Ferrando-May*: Optical control and real-time imaging of DNA damage and repair
- 9:10              *Michele Morgante*: NGS-based technologies for studying genome stability and structural diversity
- 9:40              *Bret D. Freudenthal*: APE1 cleavage mechanisms during DNA repair
- 10:10             *TBD*: Speaker chosen from submitted abstracts
- 10:30-11:00     Coffee
- 11:00-13:00     **Session 8 - Poly(ADP-ribosylation) in the DNA damage response: Pre-clinical and translational aspects**
- 11:00             *Alexander Bürkle* - Session Chair
- 11:10             *Françoise Dantzer*: Poly(ADP-ribose) polymerase 3 (PARP3) in genome integrity and beyond
- 11:40             *Haico Van Attikum*: Regulation and dynamics of DNA repair in a chromatin context
- 12:10             *Conchita Vens*: Towards radiotherapy and PARP inhibitor combination: mechanism and clinical aspects
- 12:40             *TBD*: Speaker chosen from submitted abstracts
- 13:00-14:30     LUNCH - provided
- 14:00-18:30     Guided visits to downtown Udine and the UNESCO World Heritage Site Cividale
- 18:30             Dinner partially sponsored by the Organizers  
Location: Villa DeClaricini (<http://www.declaricini.it/>)

**THURSDAY, September 28, 2017 – AULA 3, POLO ECONOMICO e GIURIDICO**

8:30-10:30	<b>Session 9 - Defects in the DNA damage response as targets for personalized therapeutic approaches</b>
8:30	<i>Robert W. Sobol</i> - Session Chair
8:40	<i>Trey Ideker</i> : Mapping the DNA damage response hierarchy by analysis of systematic genetic networks
9:10	<i>Chris Bakkenist</i> : ATR kinase inhibitors attenuate radiation-induced T cell exhaustion and potentiate T cell activity in the tumor microenvironment
9:40	<i>Randi Gussgard Syljuåsen</i> : Mechanisms and consequences of basal ATR/Chk1 activity in human cells
10:10	<i>Nina Gustafsson</i> : Protecting the genome through metabolic enzymes
10:40-11:00	Coffee
11:00-13:00	<b>Session 10 – Cell type and DNA damage specificity in DNA repair</b>
11:00	<i>Eugenia Dogliotti</i> - Session Chair
11:10	<i>Leona Samson</i> : Cell specific responses to alkylation and inflammation
11:40	<i>Bruce Demple</i> : Crosslinks produced during attempted DNA repair
12:10	<i>Bernd Kaina</i> : DNA repair and death regulation in human myeloid immune cells
12:40	<i>TBD</i> : Speaker chosen from submitted abstracts
13:00-14:30	LUNCH - provided
14:30-16:00	Closing Plenary
14:30	<i>Robert W. Sobol</i> : Closing Keynote Introduction
14:40	<i>Phil Hanawalt</i> : From Repair Replication to R-loops in half-a-century
15:40	Thank you and Farewell
15:40	<i>Gianluca Tell</i> : Closing Remarks