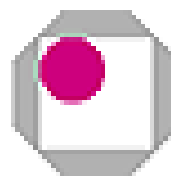




**University of Bologna
School of Pharmacy
Biotechnology Degree Program**



**Istituto
oncologico
romagnolo**

Istituto Oncologico Romagnolo

All information at www.ior-forli.it/convegno2/index.php

Bertinoro June 1st – 4th

Program

June 1st

10:00-15:30 **Arrival and check-in**

15:30-16:00 **Opening Ceremony**

Maurizio Marangolo, Chief Oncology & Hematology Department- Ravenna City Hospital

Giovanni Bissoni Assessore Sanità Regione Emilia-Romagna

Dino Amadori, Scientific Director, Istituto Studio e Ricerca Tumori in Romagna
IRST

Giorgio Cantelli-Forti, Dean, School of Pharmacy, Bologna University

Lanfranco Masotti, Chairman, Biotechnology Degree Program, Bologna University

16:00-16:45 **Opening Lecture**

James C. Wang

16:45-18:15 **DNA topology and the regulation of DNA transcription.**

Chairperson Yves Pommier

Andrew Travers

DNA supercoiling: the forgotten global transcriptional regulator?

David Levens

Reverse Engineering the human *c-myc* Promoter: the role of torsional stress in realtime regulation.

Giorgio Camilloni

In vivo studies of DNA topoisomerase I. Involvement in transcription and recombination.

20:00 **Dinner**

June 2nd

8:00-9:00 **Breakfast**

9:00-10:30 **DNA structural constraints and DNA repair.**
Chairperson Andrew Travers

Ian D Hickson

Role of topoisomerase III in resolution of recombination intermediates.

Marco Foiani

Physiological and pathological transitions of replication-related sister chromatid junctions.

Fritz Thoma

Nucleosome dynamics in DNA repair.

10:30-11:00 **Coffee Break**

11:00-13:00 **From bench to bed site: translation to the clinic.**
Chairperson Dino Amadori

Wainer Zoli

Combined taxane or gemcitabine containing sequences in preclinical models

Gabriella Zupi

Oligonucleotides in experimental models

Burkhard Jasen

Nucleic acid therapeutics in oncology. Translational research, clinical trials and regulatory issues.

Daniele Calistri

Urine telomerase in the early diagnosis of bladder cancer

Maurizio Marangolo

Alimta and Radiotherapy in human pancreatic cancer cell lines

13:00-15:00 **Lunch**

15:00-15:30 **Two selected abstracts**

15:30-17:00 **DNA topology and chromatin/chromosome dynamics.**
Chairperson Marco Foiani

William C Earnshaw

Genetic analysis of chromosome segregation in vertebrate cells.

Valerio Orlando

Polycomb Response Epigenetic DNA elements organize the 3-D structure of homeotic gene clusters in *Drosophila*.

Christian Mielke

Disposition of human DNA Topoisomerases in living cells.

17:00-17:30 **Coffe Break**

17:30-19:00 **DNA topoisomerases as targets of exogenous agents.**

Chairperson Ian D Hickson

Yves Pommier

Topoisomerase I inhibitors trapping protein-DNA interfaces: One of Nature's paradigms for drug discovery.

Fritz Boege

Role of DNA Topoisomerases in environment-driven cell ageing.

Giovanni Capranico

Cellular response to camptothecin in transcribing chromatin.

20:00 **Dinner**

June 3rd

8:00-9:00 **Breakfast**

9:00-10:30 **Structural aspects of DNA-protein interactions.**

Chairperson James C. Wang

Robert Kaptein

How Gene Regulatory Proteins Interact with DNA: The Lac Repressor System.

Georgi Muskhlishvili

Coordination of a transcription program by chromatin proteins and DNA supercoiling.

Dale B. Wigley

Structure and Mechanism of RecBCD.

10:30-11:00 **Coffee Break**

11:00-12:30 **Molecular mechanisms of DNA topoisomerase poisons.**

Chairperson Giuseppe Giaccone

Mary-Ann Bjornsti

Deciphering the cytotoxic mechanism of DNA topoisomerase I poisons in yeast.

Birgitta Knudsen

Mechanistic aspects of human topoisomerase I and its interaction to camptothecin.

Alessandro Desideri

Characterization of single topoisomerase I mutations modulating the genome stability and the reactivity toward antitumor drugs.

12:30-13:00 **Poster viewing**

13:00-15:00 **Lunch**

15:00-15:30 **Two selected abstracts**

15:30-17:00 **Structural aspects of diverse DNA topoisomerase family members.**
Chairperson Giovanni Capranico

Michel Duguet

A Universal Type IA Topoisomerase Fold.

Piero Benedetti

“A hand on a rope”. Structural studies of human DNA topoisomerase I.

Daniele Gadelle

The DNA topoisomerase IIB family: mechanism of action and inhibitors.

17:00 **Closing remarks**

20:00 **Dinner**

INVITED SPEAKERS and CHAIRPERSONS

Dino Amadori

Oncology Department – Forlì City Hospital, Forlì – Italy

Piero Benedetti

Department of Biology, Padova University, Padova, Italy.

Mary-Ann Bjornsti

Department of Molecular Pharmacology, St. Jude Children's Research Hospital, Memphis, TN, USA.

Fritz Boege

Institut für Klinische Chemie und Laboratoriumsdiagnostik, Universitätsklinikum Düsseldorf, Düsseldorf, Germany

Daniele Calistri

Preclinical Laboratory, Oncology Department, Forlì General Hospital, Forlì, Italy

Giorgio Camilloni

Department of Genetics and Molecular Biology, “La Sapienza” University of Rome, Rome, Italy.

Giovanni Capranico

Department of Biochemistry, University of Bologna School of Pharmacy, Bologna, Italy.

Alessandro Desideri

Department of Biology, Tor Vergata University, Rome, Italy.

Michel Duguet

Laboratoire d'Enzymologie des Acides Nucléiques, Institut de Génétique et Microbiologie, UMR 8621 CNRS, Université de Paris Sud, Orsay, France.

William C Earnshaw

Wellcome Trust Centre for Cell Biology, Institute for Cell and Molecular Biology, University of Edinburgh, Edinburgh, UK

Marco Foiani

F.I.R.C. Institute of Molecular Oncology, Milan, Italy

Danielle Gadelle

Institut de Génétique et Microbiologie, CNRS, UMR 8621, Université Paris-Sud, France.

Giuseppe Giaccone

Free University Hospital, Amsterdam, The Netherlands.

Ian D Hickson

Cancer Research UK Laboratories, Weatherall Institute of Molecular Medicine, University of Oxford, John Radcliffe Hospital, Oxford, UK

Burkhard Jansen

Novelix Pharmaceuticals Inc. Pasadena, CA, USA

Robert Kaptein

Bijvoet Center for Biomolecular Research, Utrecht University, Utrecht, The Netherlands.

Birgitta R. Knudsen

Department of Molecular and Structural Biology, University of Aarhus, Aarhus, DK.

David Levens

Laboratory of Pathology, Center for Cancer Research, NCI, NIH, Bethesda, MD, USA.

Maurizio Marangolo

Oncology & Hematology Department, Ravenna City Hospital, Ravenna, Italy

Christian Mielke

Institut für Klinische Chemie und Laboratoriumsdiagnostik, Universitätsklinikum Düsseldorf, Düsseldorf, Germany.

Georgi Muskhlishvili

School of Engineering and Science, International University Bremen, Bremen, Germany

Yves Pommier

Laboratory of Molecular Pharmacology, NCI, NIH, Bethesda, MD, USA

Valerio Orlando

Dulbecco Telethon Institute, Institute of Genetics & Biophysics CNR, Naples, Italy.

Fritz Thoma

Institut für Zellbiologie, ETH-Honggerberg, Zurich, Switzerland.

Andrew A. Travers

MRC Laboratory of Molecular Biology, Hills Road, Cambridge, UK

James C. Wang

Harvard University, Cambridge, MA, USA

Dale B. Wigley

Molecular Enzymology Laboratory, London Research Institute, Clare Hall Laboratories, Hertfordshire, UK.

Wainer Zoli

Preclinical Laboratory, Oncology Department, Forlì General Hospital, Forlì- Italy

Gabriella Zupi

Experimental Preclinical Laboratory, Regina Elena Cancer Institute, Rome Italy