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Nancy Ryan Gray, Ph.D.
Director

2003 GORDON RESEARCH CONFERENCES

on Genetic Toxicology

FINAL PROGRESS REPORT

Department of Energy
DE-FG02-03ER63547

The Gordon Research Conference (GRC) on Genetic Toxicology was held at Queen's College, United Kingdom, August 10-15, 2003. The conference was well attended with 130 participants (list enclosed). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both US and foreign scientists, senior researchers, young investigators, and students.

In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field. There was a conscious effort to stimulate lively discussion about the key issues in the field today. Time for formal presentations was limited in the interest of group discussions. In order that more scientists could communicate their most recent results, poster presentation time was scheduled. In addition to these formal interactions, "free time" was scheduled to allow informal discussions. Such discussions are fostering new collaborations and joint efforts in the field (program enclosed).

I want to personally thank you for your support of this Conference. As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings. If you wish any further details, please feel free to contact me. Thank you.

Penelope Jeggo
Conference Chair

GENETIC TOXICOLOGY

Queen's College
Aug 10-15, 2003

Name	Organization	Participation	Status
<u>MARK R ALBERTELLA</u>	KUDOS PHARMACEUTICALS LIMITED	Poster Presenter	Registered
<u>ARNO ALPI</u>	MPI OF BIOCHEMISTRY	Poster Presenter	Registered
<u>GALI ARAD HAASE</u>	THE WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
<u>ANDREA ARENZ</u>	DLR GERMAN AEROSPACE CENTER	Poster Presenter	Registered
<u>MARC AUDEBERT</u>	CNRS-IPBS	Poster Presenter	Registered
<u>RUTH C BARBER</u>	UNIVERSITY OF LEICESTER	Attendee	Registered
<u>ZDENA BARTOSOVA</u>	CANCER RESEARCH INSTITUTE OF SLOVAK ACADEMY OF SCI	Attendee	Registered
<u>BALAKA P BASU</u>	UNIVERSITY OF CAMBRIDGE,	Poster Presenter	Registered
<u>BARBARA BERTOCCI</u>	HOPITAL NECKER INSERM 373	Poster Presenter	Registered
<u>KEITH P BJORNSON</u>	DUKE UNIVERSITY MEDICAL CENTER	Poster Presenter	Registered
<u>RICHARD P BOWATER</u>	UNIVERSITY OF EAST ANGLIA	Poster Presenter	Registered
<u>TONY K BRADSHAW</u>	OXFORD BROOKES UNIVERSITY	Attendee	Registered
<u>ELENA K BRAITHWAITE</u>	NIH/NIEHS/LABORATORY OF STRUCTURAL BIOLOGY	Poster Presenter	Registered
<u>BRYN A BRIDGES</u>	UNIVERSITY OF SUSSEX, FALMER	Speaker	Registered
<u>P J BROOKS</u>	NIAAA NIH	Poster Presenter	Registered
<u>ANDREW BUERMAYER</u>	OREGON STATE UNIVERSITY	Poster Presenter	Registered
<u>JOHN CAIRNS</u>	OXFORD UNIVERSITY	Speaker	Registered
<u>KEITH W CALDECOTT</u>	UNIVERSITY OF SUSSEX	Speaker	Registered
<u>ANTONY M CARR</u>	UNIVERSITY OF SUSSEX	Speaker	Registered
<u>MICHAEL P CARTY</u>	NATIONAL UNIVERSITY OF IRELAND, GALWAY	Attendee	Registered
<u>MICHAEL D CHIPCHASE</u>	ABCAM	Attendee	Registered
<u>SEBASTIAN CLERKIN</u>	UNIVERSITY OF BRISTOL	Poster Presenter	Registered
<u>PRISCILLA K COOPER</u>	LAWRENCE BERKELEY NATIONAL LABORATORY	Speaker	Registered
<u>SILVIA COSTANTINI</u>	ICGEB	Attendee	Registered
<u>GRAY F CROUSE</u>	EMORY UNIVERSITY	Attendee	Registered
<u>KIRSTEN E DAHM</u>	GENOME DAMAGE AND STABILITY CENTRE	Attendee	Registered
<u>MARTINE DEFAIS</u>	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	Poster Presenter	Registered
<u>MARINA DELLA</u>	CAMBRIDGE UNIVERSITY	Poster Presenter	Registered
<u>KARIN EM DIDERICH</u>	CELL BIOLOGY & GENTICS	Poster Presenter	Registered
<u>CAROLINE DIVE</u>	MANCHESTER UNIVERSITY	Speaker	Registered
<u>AIDAN J DOHERTY</u>	CAMBRIDGE UNIVERSITY	Poster Presenter	Registered
<u>TOD DUNCAN</u>	CANCER RESEARCH LONDON RESEARCH INSTITUTE	Speaker	Registered
<u>STEVE T DURANT</u>	CANCER RESEARCH UK	Poster Presenter	Registered
<u>JEAN-MARC EGLY</u>	IGBMC	Speaker	Registered

<u>SHERIF F EL -KHAMISY</u>	GENOME DAMAGE AND STABILITY CENTRE	Poster Presenter	Registered
<u>BEVIN ENGELWARD</u>	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
<u>ANTONIO R FERNANDEZ DE HENESTROSA</u>	CENTRO DE BIOLOGIA MOLECULAR SEVERO OCHOA (CSIC)	Attendee	Registered
<u>BARRY A FINETTE</u>	UNIVERSITY OF VERMONT COLLEGE OF MEDICINE	Speaker	Registered
<u>MARCO FOIANI</u>	FIRC	Speaker	Registered
<u>ERROL C FRIEDBERG</u>	UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER	Speaker	Registered
<u>ROBERT P P FUCHS</u>	CNRS	Speaker	Registered
<u>ANTON GARTNER</u>	MAX-PLANCK INSTITUTE FOR BIOCHEMISTRY	Speaker	Registered
<u>NICHOLAS E GEACINTOV</u>	NEW YORK UNIVERSITY	Speaker	Registered
<u>JOCHEN GENSCHEL</u>	DUKE UNIVERSITY MEDICAL CENTER	Poster Presenter	Registered
<u>DAVID A GILLESPIE</u>	BEATSON INSTITUTE FOR CANCER RESEARCH/ UNIVERSITY	Poster Presenter	Registered
<u>WARREN E GLAAB</u>	MERCK RESEARCH LABORATORIES	Poster Presenter	Registered
<u>MOSHE GOLDSMITH</u>	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
<u>DMITRY GORDENIN</u>	NIEHS	Speaker	Registered
<u>DOUGLAS R GREEN</u>	LA JOLLA INSTITUTE FOR ALLERGY & IMMUNOLOGY	Speaker	Registered
<u>ARTHUR P GROLLMAN</u>	SUNY @ STONYBROOK	Speaker	Registered
<u>PHILIP C. HANAWALT</u>	STANFORD UNIVERSITY	Speaker	Registered
<u>LAURA E HAYS</u>	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
<u>JOHN B HAYS</u>	OREGON STATE UNIVERSITY	Poster Presenter	Registered
<u>JOHN A HICKMAN</u>	SERVIER	Speaker	Registered
<u>KEVIN HIOM</u>	MRC LAB OF MOLECULAR BIOLOGY	Speaker	Registered
<u>JOHN A HOSKINS</u>	TOXICOLOGY CONSULTANT	Attendee	Registered
<u>JOANNE HUGHES</u>	MRC INSTITUTE FOR ENVIRONMENT AND HEALTH	Attendee	Registered
<u>SHOBBIR HUSSAIN</u>	GUY'S, KING'S AND ST. THOMAS'S SCHL. OF MED., KCL	Poster Presenter	Registered
<u>STEVE JACKSON</u>	THE WELLCOME TRUST/CANCER RESEARCH UK INSTITUTE	Speaker	Registered
<u>JACOB G JANSEN</u>	DEPT. OF TOXICOGENETICS	Poster Presenter	Registered
<u>PENELOPE JEGGO</u>	GDSC, UNIVERSITY OF SUSSEX AT BRIGHTON	Chair	Registered
<u>LEONID KARAWAJEW</u>	HUMBOLDT UNIVERSITY BERLIN	Poster Presenter	Registered
<u>FERIDOUN KARIMI-BUSHERI</u>	CROSS CANCER INSTITUTE	Poster Presenter	Registered
<u>MARIA KARTALOU</u>	MIT	Poster Presenter	Registered
<u>RACHEL E KLEVIT</u>	UNIVERSITY OF WASHINGTON	Speaker	Registered
<u>WOJCIECH WK KUBAN</u>	POLISH ACADEMY OF SCIENCES	Poster Presenter	Registered
<u>THOMAS A KUNKEL</u>	NIEHS	Speaker	Registered
<u>ISAO KURAOKA</u>	OSAKA UNIV	Poster Presenter	Registered
<u>ALAN R LEHMANN</u>	UNIVERSITY OF SUSSEX	Speaker	Registered
<u>SUSANNA M LEWIS</u>	HOSPITAL FOR SICK CHILDREN	Poster Presenter	Registered
<u>SASCHA E LIBERTI</u>	ROSKILDE UNIVERSITY	Attendee	Registered
<u>SIRIPAN LIMSIRICHAIKUL</u>	NAGOYA UNIVERSITY GRADUATE SCHOOL OF MEDICINE	Poster Presenter	Registered

<u>HONG LING</u>	NIH	Poster Presenter	Registered
<u>JOANNA I LOIZOU</u>	GENOME DAMAGE AND STABILITY CENTRE	Poster Presenter	Registered
<u>DANIEL LUCAS ALCARAZ</u>	CENTRO NACIONAL DE BIOTECNOLOGIA	Poster Presenter	Registered
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<u>DINA R MARENSTEIN</u>	NEW YORK UNIVERSITY SCHOOL OF MEDICINE	Poster Presenter	Registered
<u>GEOFFREY P MARGISON</u>	CANCER RESEARCH UK	Attendee	Registered
<u>KEN-ICHI K MASUMURA</u>	NATIONAL INSTITUTE OF HEALTH SCIENCES	Poster Presenter	Registered
<u>TOMMIE V MCCARTHY</u>	UNIVERSITY COLLEGE CORK	Poster Presenter	Registered
<u>ROSALIND A MELDRUM</u>	CCLRC	Poster Presenter	Registered
<u>RAYMOND J MONNAT</u>	UNIVERSITY OF WASHINGTON	Speaker	Registered
<u>IAIN M MORGAN</u>	INSTITUTE OF COMPARATIVE MEDICINE (PATHOLOGY)	Poster Presenter	Registered
<u>MICHAEL S NEUBERGER</u>	MEDICAL RESEARCH COUNCIL	Speaker	Registered
<u>ATSUKO NIIMI</u>	NAGOYA UNIVERSITY	Poster Presenter	Registered
<u>MARK J O'CONNOR</u>	KUDOS PHARMACEUTICALS	Poster Presenter	Registered
<u>M O'DONOVAN</u>	ASTRAZENECA	Attendee	Registered
<u>JUDITH M OFFMAN</u>	CANCER RESEARCH UK	Poster Presenter	Registered
<u>IRAKLIS I PAPAGEORGIOU</u>	BRISTOL IMPLANT RESEARCH CENTER	Poster Presenter	Registered
<u>TAMAR PAZ-ELIZUR</u>	WEIZMANN INSTITUTE OF SCIENCE	Poster Presenter	Registered
<u>ANTHONY E. PEGG</u>	PENNSYLVANIA STATE UNIVERSITY COLLEGE OF MEDICINE	Poster Presenter	Registered
<u>ISABEL M D S PIRES</u>	UNIVERSITY OF MANCHESTER	Attendee	Registered
<u>BRIAN S PLOSKY</u>	NIH	Attendee	Registered
<u>ANDREW J RAINBOW</u>	MCMASTER UNIVERSITY	Poster Presenter	Registered
<u>LENE J RASMUSSEN</u>	ROSKILDE UNIVERSITY	Poster Presenter	Registered
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<u>WYNAND P ROOS</u>	INSTITUTE OF TOXICOLOGY, UNIVERSITY OF MAINZ	Poster Presenter	Registered
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<u>JOSE F RUIZ</u>	CENTRO DE BIOLOGIA MOLECULAR "SEVERO OCHOA"	Poster Presenter	Registered
<u>JULIAN E SALE</u>	MRC LABORATORY OF MOLECULAR BIOLOGY	Poster Presenter	Registered
<u>LEONA D SAMSON</u>	MIT, CEHS	Speaker	Registered
<u>JANINE H SANTOS</u>	NIEHS	Poster Presenter	Registered
<u>ERLING SEEBERG</u>	UNIVERSITY OF OSLO	Speaker	Registered
<u>B SINGER</u>	UNIVERSITY OF CALIFORNIA, BERKELEY	Attendee	Registered
<u>TITIA K SIXMA</u>	NETHERLANDS CANCER INSTITUTE	Speaker	Registered
<u>AMY M SKINNER</u>	OREGON STATE UNIVERSITY/ CROET	Poster Presenter	Registered
<u>JESSICA L SNEEDEN</u>	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
<u>SEBASTIEN SOUBEYRAND</u>	OTTAWA HEALTH RESEARCH INSTITUTE	Attendee	Registered
<u>TOM STIFF</u>	GENOME DAMAGE AND STABILITY UNIT	Attendee	Registered
<u>GERDINE J STOUT</u>	LEIDEN UNIVERSITY MEDICAL CENTRE, DERMATOLOGY	Poster Presenter	Registered
<u>MOTOSHI SUZUKI</u>	NAGOYA UNIVERSITY GRADUATE SCHOOL OF MEDICINE	Attendee	Registered
<u>GUILLERMO E TACCIOLI</u>	BOSTON UNIVERSITY-SCHOOL OF MEDICINE	Poster Presenter	Registered
<u>JOHN A TAINER</u>	THE SCRIPPS RESEARCH INSTITUTE	Speaker	Registered

Genetic Toxicology

August 10-15, 2003
Queen's College
Oxford, UK

Chair: [Penelope Jeggo](#)
Vice Chair: [Bennett Van Houten](#)

Overview.

Genetic toxicology represents a study of the genetic damage that a cell can incur, the agents that induce such damage, the damage response mechanisms available to cells and organisms, and the potential consequences of such damage. Genotoxic agents are abundant in the environment and are also induced endogenously. The consequences of such damage can include carcinogenesis and teratogenesis. An understanding of genetic toxicology is essential to carry out risk evaluations of the impact of genotoxic agents and to assess how individual genetic differences influence the response to genotoxic damage. In recent years, the importance of maintaining genomic stability has become increasingly recognised, in part by the realisation that failure of the damage response mechanisms underlies many, if not all, cancer incidence. The importance of these mechanisms is also underscored by their remarkable conservation between species, allowing the study of simple organisms to provide significant input into our understanding of the underlying mechanisms. It has also become clear that the damage response mechanisms interface closely with other aspects of cellular metabolism including replication, transcription and cell cycle regulation. Moreover, defects in many of these mechanisms, as observed for example in ataxia telangiectasia patients, confer disorders with associated developmental abnormalities demonstrating their essential roles during growth and development. In short, whilst a decade ago, a study of the impact of DNA damage was seen as a compartmentalised area of cellular research, it is now appreciated to lie at the centre of an array of cellular responses of crucial importance to human health. Consequently, this has become a dynamic and rapidly advancing area of research.

The Genetic Toxicology Gordon Research Conference is biannual with an evolving change in the emphasis of the meetings. From evaluating the nature of genotoxic chemicals, which lay at the centre of the early conferences, the emphasis has moved to understanding how cells and organisms respond to the different forms of genotoxic damage incurred. By understanding these mechanisms, the risk to humans can be more rationally assessed and evaluated. More recently, the format of the meetings have aimed to facilitate input from the range of disciplines that can now provide insight into the field. This evolution in emphasis has been continued in the format of the proposed 2003 meeting. In the last Genetic Toxicology Gordon Conference (2001), the aim was to integrate studies on genetic toxicology at the structural, molecular and cellular level with those involving mice and humans (2 micron to Man). In the 2003 conference, we aim to integrate the approaches from 2 micron to man together with approaches where our basic knowledge has been exploited in an applied context (2 micron to Man to manipulation).

Another aim of this conference is to bring together scientists from the broad disciplines that impact upon field as well as those scientists working in applied and basic research contexts to focus on the current issues relevant to Genetic Toxicology. Advancing technologies lie at the cutting edge of research and providing a forum for exposing the potential applications of new technology to genetic toxicology is an important aspect of this conference.

Meeting Format

The conference will run from Sunday evening to Friday morning, and will include five evening sessions and four morning sessions. The four afternoons will be completely free for informal discussions. Poster viewing sessions will be held late each afternoon prior to dinner. Each session will have a Session chair who will provide an overview of the subject, and present highlights from his own research. This will be followed by 3-4 speakers. Following the format of the last Genetic Toxicology meeting, which was received enthusiastically, there will be allocated time after each talk for ample discussion followed by a general discussion at the end of each session. Time will also be allocated for a selected set of poster presenters to highlight their findings in the relevant session.

We wish to thank the following sponsors for their much appreciated contributions:

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CIIT Centers for Health Research	Cancer Research UK
Merck and Co., Inc	European Association for Cancer Research
New England Biolabs, Inc.	

SUNDAY

2:00 pm - 9:00 pm	Arrival and Check-in
6:00 pm	Dinner
7:30 pm - 9:30 pm	Keynote talks
	Welcome
7:30 pm - 8:00 pm	Tom Kunkel , National Institute of Environmental Health Sciences, NIH Investigating DNA Transactions That Determine Replication Fidelity
8:00 pm - 8:10 pm	Discussion
8:10 pm - 8:40 pm	Phil Hanawalt , Stanford University Why can't a mouse be more like a man?
8:40 pm - 8:50 pm	Discussion
8:50 pm - 9:20 pm	Doug Green , La Jolla Institute for Allergy and Immunology The Cell's Decision to Die
9:20 pm - 9:30 pm	Discussion

MONDAY

7:45 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Genotoxicity of endogenous lesions and BER
	Session Chair: Sam Wilson , National Institute of Environmental Health Sciences, NIH
9:00 am - 9:30 am	Sam Wilson Phenotypes of Base Excision Repair Deficiency
9:30 am - 9:40 am	Discussion
9:40 am - 10:10 am	Arthur Grollman , University of New York, Stony Brook Recognition and Repair of oxidative DNA damage
10:10 am - 10:20 am	Discussion
10:20 am - 10:40 am	Coffee Break
10:40 am - 11:05 am	Barbara Sedgwick , Cancer Research UK

	Direct reversal of DNA alkylation damage by the E. coli AlkB dioxygenase and two human homologs
11:05 am - 11:15 am	Discussion
11:15 am - 11:40 am	Ehrling Seeberg , University Of Oslo Removal of base damage induced by oxidizing and alkylating agents
11:40 am - 11:50 am	Discussion
11:50 am - 12:10 pm	Keith Caldecott , Genome Damage and Stability Centre, University of Sussex Mammalian DNA Single Strand break repair
12:10 pm - 12:20 pm	Discussion
12:20 pm - 12:25 pm	Poster Presentation
12:25 pm - 12:30 pm	Discussion
12:45 pm	Lunch / Photo
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster presentations
6:00 pm	Dinner
7:30 pm - 9:30 pm	Lesion bypass and fidelity
	Session Chair: Errol Friedberg , UT South Western Medical Center
7:30 pm - 7:55 pm	Errol Friedberg Mammalian DNA Polymerase Kappa: A TLS Polymerase for Oxidative Base Damage
7:55 pm - 8:05 pm	Discussion
8:05 pm - 8:25 pm	Robert Fuchs , CNRS, Strasbourg Defining the switch between specialized and replicative DNA polymerases during Translesion synthesis.
8:25 pm - 8:35 pm	Discussion
8:35 pm - 8:55 pm	Roger Woodgate , NICHD, NIH Investigating the many protein-protein interactions that regulate the activities of Y-family DNA polymerases.
8:55 pm - 9:05 pm	Discussion
9:05 pm - 9:20 pm	Alan Lehmann , Genome Damage & Stability Centre, University of Sussex TLS polymerases like to dance together
9:20 pm - 9:30 pm	Discussion

TUESDAY

7:45 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Genotoxic damage responses to alkylation damage, bulky lesions and DNA mismatches
	Session Chair: Priscilla Cooper , Lawrence Berkeley National Laboratory
9:00 am - 9:30 am	Priscilla Cooper Coordinating repair of oxidative DNA damage with transcription and replication
9:30 am - 9:40 am	Discussion
9:40 am - 10:10 am	Nicholas Geacintov , New York University

The role of structural factors in the repair of bulky DNA lesions

10:10 am - 10:20 am Discussion

10:20 am - 10:40 am Coffee Break

10:40 am - 11:05 am **Titia Sixma**, Netherlands Cancer Institute
DNA mismatch repair enzyme Muts: an asymmetric ATPase

11:05 am - 11:15 am Discussion

11:15 am - 11:40 am **Akira Yasui**, Tohoku University
Analysis of Damage Responses by foreign repair proteins in Mammals

11:40 am - 11:50 am Discussion

11:50 am - 12:10 pm **Jean Mark Egly**, IGBMC, France
The masked role of the XPD subunit of the transcription/DNA repair factor TFIIH

12:10 pm - 12:20 pm Discussion

12:20 pm - 12:25 pm Poster Presentation

12:25 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster presentations

6:00 pm Dinner

Responses to DSBs and replication blockage

Session Chair. **John Tainer**, Scripps Research Institute

7:30 pm - 7:55 pm **John Tainer**
Envisioning Structural Implications for Repair Responses to DSB and Replication Blockage

7:55 pm - 8:05 pm Discussion

8:05 pm - 8:25 pm **Alan D'Andrea**, Harvard Medical School
The Fanconi Anaemia/BRCA Pathway in DNA Repair

8:25 pm - 8:35 pm Discussion

8:35 pm - 8:55 pm **Steve West**, Cancer Research UK
Double strand break repair by homologous recombination

8:55 pm - 9:05 pm Discussion

9:05 pm - 9:20 pm **Dmitry Gordenin**, National Institute of Environmental Health Sciences, NIH
Genotoxicity caused by inhibition of a mutation avoidance system

9:20 pm - 9:30 pm Discussion

WEDNESDAY

7:45 am - 8:30 am Breakfast

Damage inducible checkpoints and signalling

Session Chair: **Tony Carr**, Genome Damage & Stability Centre, University of Sussex

9:00 am - 9:30 am **Tony Carr**, Genome Damage & Stability Centre, University of Sussex
Regulation of RNR by checkpoints and the signalosome

9:30 am - 9:40 am Discussion

9:40 am - 10:10 am	Steve Jackson , Wellcome Trust/Cancer Research UK Institute Early events in the DNA damage response
10:10 am - 10:20 am	Discussion
10:20 am - 10:40 am	Coffee Break
10:40 am - 11:05 am	Rachel Klevit , University of Washington Determinants for the Assembly of an Active BRCA1/BARD1 Ubiquitin Ligase
11:05 am - 11:15 am	Discussion
11:15 am - 11:40 am	Marco Foiani , F.I.R.C Institute of Molecular Oncology Controlling the integrity of replicating chromosomes: the checkpoint connection
11:40 am - 11:50 am	Discussion
11:50 am - 12:10 pm	Anton Gartner , Max Planck Institute The roads to death: DNA damage induced programmed cell death in C.elegans
12:10 pm - 12:20 pm	Discussion
12:20 pm - 12:25 pm	Poster Presentation
12:25 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster presentations
6:00 pm	Dinner
7:15 pm - 7:30 pm	Business meeting
7:30 pm - 9:30 pm	Mutagenesis and somatic mutation <i>in vivo</i> Session Chair: Bryn Bridges , Genome Damage & Stability Centre, University of Sussex
7:30 pm - 7:40 pm	Bryn Bridges Introductory remarks
7:40 pm - 8:00 pm	John Cairns , Oxford The risk of Mutation
8:00 pm - 8:05 pm	Discussion
8:05 pm - 8:25 pm	Ray Monnat , University of Washington Human epithelial somatic mutation: mechanistic origins and disease links
8:25 pm - 8:45 pm	Barry Finette , University of Vermont Emergence of mutagenic mechanisms following genotoxic exposure in humans
8:45 pm - 8:55 pm	Discussion
8:55 pm - 9:15 pm	Michael Neuberger , Laboratory of Molecular Biology, UK DNA determination and the generation of Antibody diversity
9:15 pm - 9:30 pm	Discussion

THURSDAY

7:45 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Responding to the damage done: Communication between the repair and apoptotic machinery Session Chair: John Hickman , Institut de Recherches Servier

9:00 am - 9:30 am	John Hickman To die or not to die - Integration of signals from genomic damage
9:30 am - 9:40 am	Discussion
9:40 am - 10:10 am	Ben Van Houten , National Institute of Environmental Health Sciences, NIH Oxidative stress-induced mitochondrial DNA damage: sorting out life and death decisions
10:10 am - 10:20 am	Discussion
10:20 am - 10:40 am	Coffee Break
10:40 am - 11:05 am	Carol Prives , Columbia University Regulation of the p53/Mdm2 circuit
11:05 am - 11:15 am	Discussion
11:15 am - 11:40 am	Caroline Dive , CRC Molecular and Cellular Pharmacology Group Regulation of Bcl-2 family members and apoptosis by cellular damage signals
11:40 am - 11:50 am	Discussion
11:50 am - 12:10 pm	Bert Van der Horst , Erasmus MC, Rotterdam Relationship between DNA repair and aging
12:10 pm - 12:20 pm	Discussion
12:20 pm - 12:25 pm	Poster Presentation
12:25 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	Poster presentations
6:00 pm	Dinner
7:30 pm - 9:30 pm	New advances in Toxicogenomics Session Chair: Ruth Roberts , Aventis Pharma
7:30 pm - 7:55 pm	Ruth Roberts Synergising new technologies: application to molecular toxicology
7:55 pm - 8:05 pm	Discussion
8:05 pm - 8:25 pm	Leona Samson , MIT, Boston Complex responses to alkylating agents
8:25 pm - 8:35 pm	Discussion
8:35 pm - 8:55 pm	Veronique Thybaud , Aventis Pharma Can toxicogenomics be used to differentiate between direct and indirect genotoxic compounds?
8:55 pm - 9:05 pm	Discussion
9:05 pm - 9:20 pm	Sri Nagalla , Oregon Health Sciences University Toxicology In Silco : Mapping the genotoxic gene and protein networks
9:20 pm - 9:30 pm	Discussion
FRIDAY	
7:45 am - 8:30 am	Breakfast
9:00 am	Depart



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<u>CATHERINA S THERON</u>	GENOME DAMAGE AND STABILITY CENTRE	Poster Presenter	Registered
<u>VERONIQUE THYBAUD</u>	AVENTIS PHARMA	Speaker	Registered
<u>ALEXANDRA VAISMAN</u>	NICHD/NIH	Attendee	Registered
<u>GJJBERTUS TJ VAN DER HORST</u>	ERASMUS MC ROTTERDAM	Speaker	Registered
<u>BENNETT VAN HOUTEN</u>	NIEHS	Vice Chair	Registered
<u>CASSANDRA J VANDENBERG</u>	MRC LABORATORY OF MOLECULAR BIOLOGY	Attendee	Registered
<u>ALESSANDRO VINDIGNI</u>	ICGEB	Poster Presenter	Registered
<u>STEPHEN C WEST</u>	CLARE HALL LABORATORIES	Speaker	Registered
<u>SAMUEL H WILSON</u>	NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCE	Speaker	Registered
<u>ROGER WOODGATE</u>	NIH	Speaker	Registered
<u>NATALIE P WYATT</u>	UNIVERSITY OF BRADFORD	Poster Presenter	Registered
<u>AKIRA YASUI</u>	TOHOKU UNIVERSITY	Speaker	Registered
<u>CAROLE L YAUK</u>	HEALTH CANADA	Speaker	Registered
<u>GRACE C YEY</u>	NATIONAL CANCER INSTITUTE	Attendee	Registered
<u>ZHIRONG YIN</u>	BRISTOL IMPLANT RESEARCH CENTRE	Poster Presenter	Registered
<u>YUKO YOSHIKAWA</u>	NAGOYA BUNRI COLLEGE	Poster Presenter	Registered
<u>ANASTASIA ZLATANOU</u>	GENOME DAMAGE AND STABILITY CENTRE	Poster Presenter	Registered