X INTERNATIONAL CONFERENCE ON ENVIRONMENTAL MUTAGENS

FIRENZE, ITALY - AUGUST 20-25, 2009

FINAL PROGRAM

Thursday, August 20

8.30-13.00  Pre Conference Courses

Angelico Hall
MOLECULAR EPIDEMIOLOGY FOR CHRONIC DISEASES

Bronzino Hall
MICRONUCLEUS CYTOME ASSAY: LYMPHOCYTES AND BUCCAL EXFOLIATED CELLS

Botticelli Hall
Opening Ceremony

18.00
11th ICEM Announcement
L. Ribeiro, C.F. Menck

18.45  IN001  Keynote Lecture
Introduction: E. Zamorano-Ponce, President Asociación Latinoamericana de Mutagénesis, Carcinogénesis y Teratogénesis Ambiental (ALAMCTA)

LESION SENSING AND DECISION POINTS IN THE DNA DAMAGE RESPONSE
P. C. Hanawalt, Stanford University, Stanford, CA, USA

19.30  Welcome Cocktail

Friday, August 21

Botticelli Hall

8.30  IN002  Plenary Lecture
Introduction: T. Nohmi, President Asian Association of Environmental Mutagen Societies

CANCER RISK FROM EXPOSURE TO URBAN AIR POLLUTION
HRH Princess M. Chulabhorn, Chulabhorn Research Institute, Bangkok, Thailand

9.15  IN003  Plenary Lecture
Introduction: D. Kirkland, President-Elect European EMS

SEVEN DEADLY SINS OF ENVIRONMENTAL RESEARCH
10.00 Coffee break

10.30-12.30 Parallel Symposia

Michelangelo Hall

Mutational and epigenetic mechanisms

**EPIGENETICS: THE NEW FRONTIER IN ENVIRONMENTAL MUTAGENESIS**

Chairs: R. Feil, M. Hanson

10.30 IN004 EPIGENETIC MECHANISMS AND THE REGULATION OF GENOMIC IMPRINTING IN MAMMALS

*R. Feil*, CNRS Montpellier, France

10.55 IN005 DEVELOPING HUMAN EMBRYONIC STEM CELLS TO MODEL ENVIRONMENTAL EFFECTS ON THE DEVELOPING EPIGENOME

*L.E. Young*, University of Nottingham, UK

11.20 IN006 EPIGENETIC REGULATION OF AGING

*M.F. Fraga*, CNB-CSIC, Madrid, Spain

11.45 IN007 EPIGENETIC PROCESSES IN DEVELOPMENTAL ORIGINS OF HEALTH AND DISEASE (DOHaD)

*M. Hanson*, University of Southampton, UK

12.10 ME021 HYPERMETHYLATION OF TUMOUR SUPPRESSOR GENES IN LUNG TUMOURS FROM NEVER-SMOKERS WITH AND WITHOUT SECOND-HAND TOBACCO SMOKE EXPOSURE

*S. Jarmalaite*, Vilnius University, Vilnius, Lithuania

12.20 EM153 PERSISTENT DYSREGULATION OF DNA METHYLATION IN CELLS WITH ARSENIC-INDUCED GENOMIC INSTABILITY

*M. Mauro*, New York University, Tuxedo, NY, USA and University of Palermo, Italy

Lippi Hall

DNA damage responses

**MECHANISMS OF CELL DEATH AND SURVIVAL**

Chairs: B. Kaina, A. Antoccia

10.30 IN008 SURVIVAL AND DEATH STRATEGIES IN CELLS EXPOSED TO GENOTOXINS

*B. Kaina*, University Medical Center Mainz, Germany

10.55 IN009 TRANSCRIPTIONAL INHIBITION BY DNA DAMAGE AS A TRIGGER OF CELL DEATH

*M. Ljungman*, University of Michigan, Ann Arbor, MI, USA

11.15 IN010 DIFFERENT MODES OF CELL DEATH INDUCED BY DNA DAMAGE

*B. Zhivotovsky*, Karolinska Institutet, Stockholm, Sweden
11.35 IN011 ROLE OF DNA-PKcs-PIDDosome IN DNA DAMAGE RESPONSE
C. Du, The University of Cincinnati, OH, USA

11.55 IN012 CELL-CYCLE BLOCKAGE AFFECTS DNA DAMAGE RESPONSES THAT LEAD TO DEATH IN HUMAN PRIMARY FIBROBLASTS.
C.F. Menck, University of Sao Paulo, Brazil

12.15 DD30 ROLE OF THE APOPTOSIS-MODULATORY MOLECULE NF-κB IN DNA REPAIR
M. Volcic, Ulm University, Ulm, Germany

Bronzino Hall
Environmental Mutagenesis
NANOTOXICOLOGY: MECHANISMS AND EFFECTS
(This Symposium is partially supported by ECETOC)
Chairs: G. Oberdörster, L. Tran

10.30 IN013 TOXICITY ASSESSMENT OF NANOPARTICLES
G. Oberdörster, University of Rochester, NY, USA

11.00 IN014 PHYSICO-CHEMICAL FEATURES IN THE TOXICITY OF ENGINEERED NANOPARTICLES
B. Fubini, University of Torino, Italy

11.20 IN015 DISTRIBUTION AND EFFECTS OF NANOMATERIALS AFTER INHALATION AND I.V. INJECTION IN RATS
R. Landsiedel, BASF SE, Ludwigshafen, Germany

11.40 IN016 MECHANISMS OF NANOMATERIALS GENOTOXICITY
M. Kirsch-Volders, Vrije Universiteit Brussels, Belgium

12.00 IN017 POTENTIAL PULMONARY EFFECTS OF SINGLE-WALLED CARBON NANOTUBE (SWCNT) EXPOSURE: IN VITRO GENOTOXIC EFFECTS
V. Castranova, National Institute for Occupational Safety and Health, Morgantown, WV, USA

12.20 CONCLUSIONS
L. Tran, Institute of Occupational Medicine, Edinburgh, UK

Angelico Hall
Mutagenesis and health effects
HEALTH EFFECTS OF NUCLEOTIDE POOL DAMAGE
Chairs: T. Nohmi, M. Bignami

10.30 IN018 ERRONEOUS INCORPORATION OF OXIDIZED NUCLEOTIDES BY Y-FAMILY DNA POLYMERASES
T. Nohmi, National Institute of Health Sciences, Tokyo, Japan

10.55 IN019 PROGRAMMED CELL DEATH TRIGGERED BY NUCLEOTIDE POOL DAMAGE
Y. Nakabeppu, Kyushu University, Fukuoka, Japan
11.15 IN020 MULTIPLE ROLES OF THE MTH1 HYDROLASE: PROTECTION AGAINST NEURODEGENERATION AND CONTROL OF LIFE SPAN
M. Bignami, Istituto Superiore di Sanità, Roma, Italy

11.35 IN021 INCORPORATION OF EXTRACELLULAR 8-oxodG INTO DNA AND RNA REQUIRES PURINE NUCLEOSIDE PHOSPHORYLASE IN CULTURED MAMMALIAN CELLS AND MICE.
P. T. Henderson, University of California, Sacramento, CA, USA

11.55 IN022 MUTAGENICITY OF OXIDIZED DNA PRECURSORS IN LIVING CELLS: ROLES OF NUCLEOTIDE POOL SANITIZATION AND DNA REPAIR ENZYMES, AND Y-FAMILY DNA POLYMERASES
H. Kamiya, Hokkaido University, Sapporo, Japan

12.15 DD44 GENOTOXIC ACTIVITY INDUCED BY VARIOUS H. pylori STRAINS IS ASSOCIATED WITH A DOWNREGULATION OF DNA MISMATCH REPAIR GENES EXPRESSION
E. Touati, Institut Pasteur, Paris, France

Botticelli Hall
Risk assessment
CURRENT ISSUES IN MODE OF ACTION ANALYSIS AND THEIR USE IN CANCER RISK ASSESSMENT
Chairs: N. Keshawa, D. Eastmond

10.30 IN023 AN OVERVIEW OF CURRENT ISSUES IN MODE OF ACTION ANALYSIS AND THEIR USE IN CANCER RISK ASSESSMENT
N. Keshawa, U.S. Environmental Protection Agency, Washington DC, USA

10.50 IN024 ASSESSING IN VITRO DOSE-RESPONSE RELATIONSHIPS FOR ANEUGENS
D. A. Eastmond, University of California, Riverside, CA, USA

11.10 IN025 THE MUTAGENIC POTENTIAL OF FORMALDEHYDE AND ITS RELEVANCE FOR CARCINOGENESIS
G. Speit, Universität Ulm, Germany

11.30 IN026 EMS IN VIRACEPT - A LESSON ON MUTATION THRESHOLDS FOR ALKYLATED AGENTS
L. Müller, F. Hoffmann-La Roche, Basel, Switzerland

11.50 IN027 FOOD CADMIUM AND THE RISK OF HORMONE-RELATED CANCERS: A POPULATION-BASED PROSPECTIVE COHORT STUDY
A. Åkesson, Karolinska Institutet, Stockholm, Sweden

12.10 IN028 ANALYSIS AND INCORPORATION OF MECHANISTIC DATA IN DECISION-MAKING ON SEVERAL CARCINOGENS AT IARC
12.30-14.30  Lunch and poster viewing
ME001-011; DD001-060; EM001-060; MH001-032; PD001-013; RA001-037

14.30-16.30  Parallel Symposia

Lippi Hall
Mutational and epigenetic mechanisms
EPIGENOME AND THE ENVIRONMENT: FROM UNDERSTANDING THE MECHANISMS TO RISK ASSESSMENT
Chairs: O. Kovalchuk, J. Trosko

14.30  IN029  ROLE OF EPIGENETIC DEREGLATION IN RADIATION-INDUCED GENOME INSTABILITY AND CARCINOGENESIS
O. Kovalchuk, University of Lethbridge, AB, Canada

14.55  IN030  ROLE OF EPIGENETIC EVENTS IN GENOTOXIC LIVER CARCINOGENESIS
I.P. Pogribny, Food and Drug Administration, Jefferson, AR, USA

15.15  IN031  DNA METHYLATION AND PERSISTENT BYSTANDER EFFECT: MEMORY OF AN INSULT
B.P. Engelward, Massachusetts Institute of Technology, Cambridge, MA, USA

15.35  IN032  EPIGENETIC CHANGES UNDERLIE ORGANISMAL ADAPTATION TO CHANGING ENVIRONMENTS
I. Kovalchuk, University of Lethbridge, AB, Canada

15.55  IN033  SYSTEMS INTEGRATION OF HUMAN STEM CELLS, EPI-TOXICOGENOMICS, CELL-CELL COMMUNICATION: THE BARKER HYPOTHESIS AND CHRONIC HUMAN DISEASES.
J.E. Trosko, Michigan State University, East Lansing, MI, USA

16.15  ME025  THE ASSOCIATION OF METHYLATION PATTERN AND PRENATAL POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) EXPOSURE
D. Tang, Columbia University, New York, NY, USA

Botticelli Hall
DNA damage responses
NOVEL INSIGHTS INTO DNA DAMAGE SIGNALLING AND REPAIR
Chairs: J. Jiricny, P. Menichini

14.30  IN034  BASE- AND MISMATCH REPAIR INTERFERENCE DURING SOMATIC HYPERMUTATION
J. Jiricny, University of Zurich, Switzerland
14.50 IN035 MRE11 INTERACTIONS WITH DNA AND RAD50 ATPase PLUS NBS1 INTERACTIONS WITH CTIP CONNECT dsDNA REPAIR MACHINERY AND BREAK SIGNALING
   *J.A. Tainer*, Lawrence Berkeley National Lab, La Jolla, CA, USA

15.10 IN036 HUMAN ELG1 REGULATES THE LEVEL OF UBIQUITINATED PCNA THROUGH INTERACTIONS WITH PCNA AND USP1
   *K.J. Myung*, National Institute of Health, Bethesda, MD, USA

15.30 IN037 DNA BASE EXCISION REPAIR IN (EPI)GENOME MAINTENANCE
   *P. Schär*, University of Basel, Switzerland

15.50 IN038 PROPERTIES OF NEIL3 IN PROLIFERATION AND DIFFERENTIATION OF STEM/PROGENITOR CELLS
   *M. Bjørås*, University of Oslo, Norway

16.10 IN039 ESTABLISHMENT OF REPORTER ASSAY YEASTS RESPONDING TO LIGANDS OF VARIOUS HUMAN NUCLEAR RECEPTORS, AND ROLES OF AHR LIGANDS TO INDUCE OR PROTECT FROM DNA DAMAGE FORMATION
   *T. Yagi*, Osaka Prefecture University, Osaka, Japan

**Bronzino Hall**

*Environmental mutagenesis*

**NEW DEVELOPMENTS IN THE GENOTOXICITY OF SOIL AND WATER**

Chair: D. DeMarini, R. Marcos

14.30 IN040 THE GENOTOXIC HAZARDS AND CARCINOGENIC RISKS OF PAH CONTAMINATED SOILS
   *P.A. White*, Health Canada, Ottawa, QC, Canada

14.55 IN041 POTENTIAL IMPLICATIONS OF SOIL POLLUTION WITH MUTAGENS IN LUNG CANCER
   *T. Watanabe*, Kyoto Pharmaceutical University, Kyoto, Japan

15.20 IN042 GENOTOXICITY AND CARCINOGENICITY OF DRINKING WATER DISINFECTION BY-PRODUCTS
   *D.M. DeMarini*, U.S. Environmental Protection Agency, Research Triangle Park, NC, USA

15.45 EM109 GENOTOXICITY STUDIES WITH DISINFECTION BYPRODUCTS (DBPs)
   *R. Marcos*, Universitat Autònoma de Barcelona, Bellaterra, Spain

16.10 EM135 AMES II AND HIGH-THROUGHPUT COMET ASSAY FOR EFFICIENT SCREENING OF DRINKING WATER (SOURCES) FOR GENOTOXIC CONTAMINANTS
   *M.B. Heringa*, KWR Watercycle Research Institute, Nieuwegein, The Netherlands
Angelico Hall

Mutagenesis and health effects

CHILDREN CANCER RISK

Chairs: J. Kleinjans, C.P. Wild

14.30 INTRODUCTION
C.P. Wild, International Agency for Research on Cancer, Lyon, France

14.40 IN043 ACTIVATION OF INFLAMMATION/NF-κB SIGNALING IN INFANTS BORN TO ARSENIC-EXPOSED MOTHERS
R. Fry, Massachusetts Institute of Technology, Cambridge, MA, USA

15.05 IN044 TRANSCRIPTOMIC ANALYSIS IN UMBILICAL CORD BLOOD OF CHILDREN EXPOSED TO GENOTOXIC COMPOUNDS THROUGH THEIR MOTHERS DIET
D.M. van Leeuwen, Maastricht University, Maastricht, The Netherlands

15.30 IN045 GENETIC AND ENVIRONMENTAL RISK FACTORS OF CHILDHOOD LEUKEMIA
K. Hemminki, German Cancer Research Center, Heidelberg, Germany

15.55 IN046 THE INTERNATIONAL CHILD CANCER COHORT CONSORTIUM
T. Dwyer, Royal Children's Hospital, Parkville, Australia

Michelangelo Hall

Risk assessment

NEW DEVELOPMENTS IN REGULATORY GENETIC TOXICOLOGY

Chairs: E. Lorge, V. Thybaud

14.30 IN047 INTEGRATION OF GENOTOXICITY TESTS INTO ROUTINE TOXICITY STUDIES
C. Priestley, AstraZeneca, UK
A. Czich, Sanofi Aventis, Germany
A. Rothfuss, Bayer Schering Pharma AG, Germany

15.30 IN048 THE ILSI-HESI PROJECT COMMITTEE ON THE RELEVANCE AND FOLLOW-UP OF POSITIVE RESULTS IN IN VITRO GENETIC TOXICITY (IVGT) TESTING: INTRODUCTION AND FOLLOW-UP OF POSITIVE RESULTS IN VITRO
V. Thybaud, Sanofi-Aventis, Vitry sur Seine, France

15.50 IN049 THE ILSI-HESI PROJECT COMMITTEE ON THE RELEVANCE AND FOLLOW-UP OF POSITIVE RESULTS IN IN VITRO GENETIC TOXICITY TESTING (IVGT): QUANTITATIVE ASPECTS OF GENOTOXICITY RISK ASSESSMENT
J.T. MacGregor, Toxicology Consulting Services, Arnold, MD, USA
THE ILSI-HESI PROJECT COMMITTEE ON THE RELEVANCE AND FOLLOW-UP OF POSITIVE RESULTS IN IN VITRO GENETIC TOXICITY TESTING (IVGT): EMERGING TECHNOLOGIES FOR THE IMPROVEMENT OF GENOTOXICITY RISK ASSESSMENT

J. Sasaki, Johnson & Johnson Pharmaceutical Research and Development, Raritan, NJ, USA

Coffee break

IN051 Plenary Lecture
Introduction: H.W. Chung, Past-President Korean EMS

CANCER STEM CELLS FROM SOLID TUMORS
R. De Maria, Istituto Superiore di Sanità, Roma, Italy

6th ICEMHP Announcement
W. Au

Parallel Forum

FOR01 ANTIMUTAGENESIS AND CHEMOPREVENTION IN A U-SHAPED WORLD
Chair: D.J. Waters

Promoting health in a U-shaped world
D.J. Waters, Purdue University, West Lafayette, IN, USA

Cancer and aging: U-shaped response to vitamin D
P. Tuohimaa, University of Tampere, Finland

U-shaped dose response of anti-angiogenic agents
A.R. Reynolds, Institute of Cancer Research, London, UK

FOR02 Defining the optimal dose of selenium for prostate cancer risk reduction
D.J. Waters, Purdue University, West Lafayette, IN, USA

Michelangelo Hall

FOR03 MUTAGENIC MODE OF ACTION FOR CARCINOGENS: HOW HIGH IS THE BURDEN OF PROOF?
Chair: M. Moore

Overview of Mode of Action (MOA); Framework for determining a mutagenic MOA; case study on cyclophosphamide
R. Schoeny, U.S. Environmental Protection Agency, Washington, DC, USA

Case study on dichloroacetic acid
M. Moore, U.S. Food and Drug Administration, Jefferson, AR, USA
Case study on acrylamide  
**L. Haber**, Toxicology Excellence for Risk Assessment, Cincinnati, OH, USA

**Botticelli Hall**

**FOR04** RATIONALE OF GENOTOXICITY TESTING OF NANOMATERIALS  
(This Forum is partially supported by ECETOC)  
Chairs: H. Greim, H. Norppa

FOR05 Regulatory requirements and appropriateness of available test systems  
**D. Warheit**, DuPont Haskell Global Centers for Health & Environmental Sciences, Newark, DE, USA

FOR06 Possible genotoxic mechanisms: Criteria for improved test strategies  
**K. Donaldson**, University of Edinburgh, Scotland, UK

**Angelico Hall**

**FOR07** ECOGENOTOXICOLOGY: PAST SUCCESSES AND FUTURE NEEDS  
Chairs: C. Bolognesi, D.M. DeMarini

FOR08 Evaluating the mutagenicity of air, water, and soil by the Salmonella assay: where are we after 40 years?  
**D. M. DeMarini**, US Environmental Protection Agency, Research Triangle Park, NC, USA

FOR09 Ecogenotoxicity applied to environmental quality control  
**V.M.F. Vargas**, Fundação Estadual de Proteção Ambiental Henrique Luís Roessler, Porto Alegre, RS, Brazil

FOR10 Industrial solid waste leachates induced genotoxicity: models and assays  
**D.K. Chowdhuri**, Indian Institute of Toxicology Research, Lucknow, India

FOR11 An approach to validate genotoxicity biomarkers in environmental animals: the example of the micronucleus test  
**C. Bolognesi**, National Cancer Research Institute, Genova, Italy

FOR12 Applications of biomarkers for the monitoring of the aquatic environment: challenges and new trends  
**A. Jha**, University of Plymouth, UK

Presentation of some selected posters

**Lippi Hall**
PHILOSOPHY, SCIENCE AND ART IN RENAISSANCE ITALY
Chair: P. Dolara

FOR13 Renaissance medicine between typification and direct observation
O. Catanorchi, Scuola Normale Superiore, Pisa, Italy

FOR14 Art, science and nature in the Renaissance from Botticelli to Leonardo
A. Perissa Torrini, Gallerie dell’Accademia di Venezia, Italia

Saturday, August 22

Botticelli Hall

8.30 IN052 Plenary Lecture
Introduction: T. Yagi, President Japanese EMS

ENVIRONMENTAL EXPOSURE ASSESSMENT: COLLATERAL DAMAGE IN THE GENOMIC REVOLUTION?
C. P. Wild, International Agency for Research on Cancer, Lyon, France

9.15 IN053 Plenary Lecture
Introduction: W. Anwar, President-Elect Pan-African EMS

UNDERSTANDING THE MUTAGENIC CONSEQUENCES OF BASE LESION DNA REPAIR
S.H. Wilson, National Institute of Environmental Health Sciences, Research Triangle Park, NC, USA

10.00 Coffee break

10.30-12.30 Parallel Symposia

Michelangelo Hall
Mutational and epigenetic mechanisms
CHROMOSOME SEGREGATION AND GENOMIC INSTABILITY
Chair: F. Degrassi, U. Eichenlaub-Ritter

10.30 IN054 USING MULTI-DIMENSIONAL PROTEOMICS TO DEFINE THE COMPLETE PROTEIN COMPOSITION OF MITOTIC CHROMOSOMES
W. Earnshaw, University of Edinburgh, UK

10.55 IN055 LIVE CELL STUDIES ON TAXOL AND THE MITOTIC CHECKPOINT IN HUMANS
C.L. Rieder, NYS Dept. of Health, Albany, NY, USA

11.20 IN056 MECHANISMS OF CHROMOSOME MIS-SEGREGATION IN CANCER CELLS
D. Cimini, Virginia Tech, Blacksburg, VA, USA

11.45 IN057 HIGH-RESOLUTION IMAGING OF MITOTIC CHROMOSOME INSTABILITY
D. Gisselsson, University Hospital, Lund, Sweden

12.10 DD117 TRANSPLACENTALLY-INDUCED CENTROSOMAL AMPLIFICATION AND ANEUPLOIDY IN PRIMATES EXPOSED IN UTERO TO ANTIRETROVIRAL DRUGS
O. Olivero, National Cancer Institute, Bethesda, MD, USA

Angelico Hall

DNA damage responses

CELL TYPE AND TIME SPECIFICITY OF DNA DAMAGE RESPONSE
Chairs: E. Dogliotti, G.T. van der Horst

10.30 IN058 DNA DAMAGE AND CELL DIFFERENTIATION
E. Dogliotti, Istituto Superiore di Sanità, Roma, Italy

10.55 IN059 RECIPROCAL LINK BETWEEN THE CIRCADIAN CLOCK AND THE DNA DAMAGE RESPONSE
G.T.J. van der Horst, Erasmus University Medical Center, Rotterdam, The Netherlands

11.20 IN060 CELL AND TISSUE-SPECIFIC REQUIREMENTS FOR DNA STRAND BREAK REPAIR DURING NEUROGENESIS
P.J. McKinnon, St. Jude Children’s Research Hospital, Memphis, TN, USA

11.45 IN061 CELL CYCLE CHECKPOINTS AND DNA REPAIR PATHWAYS VARY BETWEEN DIFFERENT CELL TYPES FOLLOWING EXPOSURE TO IONIZING RADIATION
P.J. Stambrook, University of Cincinnati, OH, USA

12.05 IN062 SOMATIC MUTATIONS AS A MOLECULAR RATIONAL OF DISEASE IN COMPLEX CONGENITAL HEART DISEASE
J. Borlak, Fraunhofer Institute for Toxicology and Experimental Medicine, Hannover, Germany

12.20 DD104 DNA DAMAGE AND CHECKPOINT RESPONSES IN HUMAN PROSTATE EPITHELIUM
T.M. Hässlström, University of Helsinki, Finland

Bronzino Hall

Environmental mutagenesis

ENVIRONMENTAL POLLUTION: THE ROLE OF SENTINEL SPECIES AND BIOMARKERS
Chairs: D. Waters, C. Bolognesi

10.30 IN063 PET DOGS AS SENTINELS OF ENVIRONMENTAL CANCER RISK
D. Waters, Purdue University, West Lafayette, IN, USA
10.55  IN064  TOXICOPATHIC LIVER LESIONS AND OTHER BIOMARKERS OF CHEMICAL EXPOSURE AND EFFECT IN SENTINEL FISH SPECIES IN PUGET SOUND, WASHINGTON AND OTHER COASTAL AREAS OF THE UNITED STATES  
M.S. Myers, NOAA Fisheries, Seattle, WA, USA

11.20  IN065  GENOTOXICITY OF POLLUTED SOILS: RESPONSE OF BIOLOGICAL INDICATORS  
P. Vasseur, University of Metz, France

11.45  IN066  TRANSCRIPTOMICS AND PROTEOMICS IN Mus spretus: NEW TOOLS FOR ENVIRONMENTAL POLLUTION ASSESSMENT  
C. Pueyo, Córdoba University, Spain

12.05  IN067  ENHANCED IN VIVO MUTATIONS IN THE LUNG OF PHASE II ENZYME-SUPPRESSED MICE  
Y. Aoki, National Institute for Environmental Studies, Tsukuba, Japan

12.20  EM045  THE COPEPOD TIGRIOPSIS: A PROMISING MARINE MODEL ORGANISM FOR ECOTOXICOLOGY AND ENVIRONMENTAL GENOMICS  
J.-S. Lee, Hanyang University, Seoul, Korea

Botticelli Hall  
*Mutagenesis and health effects*

**IS THE ERA OF GENOME WIDE ASSOCIATIONS ALREADY OVER?**  
Chair: P. Vineis, Z. Herceg

10.30  IN068  IS THE ERA OF GENOME WIDE ASSOCIATIONS ALREADY OVER?  
P. Vineis, Imperial College, London, UK

11.10  IN070  GENOME-WIDE ASSOCIATION STUDIES: STATISTICAL DEVELOPMENTS  
D. Balding, Imperial College, London, UK

11.40  IN071  APPLICATION OF EPIGENOMICS IN CANCER RESEARCH  
Z. Herceg, International Agency for Research on Cancer, Lyon, France

12.10  MH011  p73 G4C14-to-A4T14 GENE POLYMORPHISM AND INTERACTION WITH p53 EXON 4 Arg72Pro ON CANCER SUSCEPTIBILITY: A META-ANALYSIS OF THE LITERATURE  
E. De Feo, Università Cattolica del Sacro Cuore, Roma, Italy

Lippi Hall  
*Prevention of mutation-related diseases*

**BIOLOGY, EPIDEMIOLOGY AND PREVENTION OF CANCER-ASSOCIATED MICROBIAL DISEASES**  
Chairs: P. Bonanni, P.J. Farrell
10.30 IN072 EPIDEMIOLOGY AND PRIMARY PREVENTION OF HPV-RELATED PRE-CANCEROUS AND CANCEROUS LESIONS
P. Bonanni, University of Firenze, Italy

11.05 IN074 DEVELOPMENT OF VACCINES AGAINST Helicobacter pylori
G. Del Giudice, Novartis Vaccines and Diagnostics, Siena, Italy

11.35 IN075 EPSTEIN-BARR VIRUS INFECTION, MUTATIONS AND CANCER
P.J. Farrell, Imperial College, London, UK

12.05 PD025 HUMAN PAPILLOMA VIRUS IN BARRETT'S OESOPHAGUS
E. Snow, University of Tasmania, Launceston, Tasmania, Australia

12.30-14.30 Lunch and poster viewing
ME012-021; DD061-120; EM061-120; MH033-064; PD014-026; RA038-075

14.30-16.30 Parallel Symposia

Michelangelo Hall
Mutational and epigenetic mechanisms
MicroRNAs AND THEIR REGULATION
Chairs: G.A. Calin, M. Negrini

14.30 IN076 TOWARD A NON-CODING RNA REVOLUTION IN THE CANCER SOCIETY
G.A. Calin, University of Texas, Houston, TX, USA

15.00 IN077 MicroRNAs IN CELL DIFFERENTIATION AND CANCER
F.J. Slack, Yale University, New Haven, CT, USA

15.30 IN078 MicroRNA ONCOGENIC PATHWAYS DERAILED IN HEPATOCELULAR CARCINOMA
M. Negrini, Università di Ferrara, Italy

15.55 IN079 POST-TRANSCRIPTIONAL REGULATION OF microRNA EXPRESSION IN HUMAN TUMORS AND CANCER CELL LINES
T.D. Schmittgen, Ohio State University, Columbus, OH, USA

16.20 RA070 IDENTIFICATION OF miRNA WITH TOXICOLOGICAL POTENTIAL AFTER BENZO[a]PYRENE EXPOSURE
D. Lizarraga, Maastricht University, Maastricht, The Netherlands

Botticelli Hall
Environmental mutagenesis
CHALLENGING ENVIRONMENTAL HEALTH PROBLEMS AROUND THE WORLD
Chairs: W. Au, R. Sram
14.30 IN080 TRADITIONAL AND FUNCTIONAL BIOMARKERS FOR MONITORING EXPOSED POPULATIONS FOR HEALTH RISK ASSESSMENT
W.W. Au, University of Texas, Galveston, TX, USA

14.50 IN081 ENVIRONMENTAL AIR POLLUTION AND ASSESSMENT OF HEALTH RISK IN VARIOUS POPULATIONS
M. Ruchirawat, Chulabhorn Research Institute, Bangkok, Thailand

15.10 IN082 GENOTOXICITY OF AIR POLLUTANTS – IMPACT TO CHILDREN HEALTH
R.J. Sram, Institute of Experimental Medicine AS CR, Prague, Czech Republic

15.30 IN083 ARSENIC IN DRINKING WATER: GENETIC AND GENOMIC APPROACHES FOR IDENTIFYING ARSENIC SUSCEPTIBILITY AND HEALTH EFFECTS
A.K. Giri, Indian Institute of Chemical Biology, Calcutta, India

15.50 IN084 ENVIRONMENTAL HEALTH PRIORITIES AND CHALLENGES AROUND THE WORLD FOR THE NEXT DECADES
J. Pronczuk, World Health Organization, Geneva, Switzerland

16.10 IN085 ARISTOLOCHIC ACID NEPHROPATHY: AN ENVIRONMENTAL AND IATROGENIC DISEASE
A.P. Grollman, Stony Brook University, New York, NY, USA

Angelico Hall
Mutagenesis and health effects

DNA DAMAGE, REPAIR AND AGING
(This Symposium is supported by The Ellison Medical Foundation)

14.30 IN086 HUMAN PREMATURE AGING PROTEINS PARTICIPATE IN DNA REPAIR
V.A. Bohr, National Institute on Aging, Baltimore, MD, USA

14.50 IN087 ENVIRONMENTAL CAUSES OF TELOMERE DEFECTS
P.L. Opresko, University of Pittsburgh, PA, USA

15.10 DD157 THE WERNER SYNDROME PROTEIN PARTICIPATES IN THE RESPONSE TO ONCOGENE-INDUCED REPLICATION STRESS
P. Pichierri, Istituto Superiore di Sanità, Roma, Italy

15.25 IN088 EVIDENCE THAT DNA DAMAGE PLAYS A CAUSAL ROLE IN AGING AND AGE-RELATED DISEASE
L.J. Niedernhofer, University of Pittsburgh, PA, USA

15.50 IN089 TRANSCRIPTION-BLOCKING DNA LESIONS: AT THE CROSSROAD OF AGING AND LONGEVITY
G.A. Garinis, Institute of Molecular Biology and Biotechnology, Heraklion, Greece
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<td>16.10</td>
<td>IN090</td>
<td>CELLULAR SENESCENCE AS A DNA DAMAGE RESPONSE</td>
<td>F. D’Adda di Fagagna, IFOM-IEO, Milano, Italy</td>
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<td>Bronzino Hall</td>
<td>Prevention of mutation-related diseases</td>
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<td><strong>NUTRIGENOMICS AND PUBLIC HEALTH</strong></td>
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<td>Chairs: M. Fenech, P. Dolara</td>
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<td>14.30</td>
<td>IN091</td>
<td>PERSONALISED AND POPULATION-BASED STRATEGIES FOR DIAGNOSIS OF DNA DAMAGE AND ITS PREVENTION</td>
<td>M. Fenech, CSIRO Human Nutrition, Adelaide, Australia</td>
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<td>VIA NUTRITIONAL AND LIFE-STYLE INTERVENTION</td>
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<td>15.00</td>
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<td>NUTRITIONAL SYSTEMS BIOLOGY: FROM INTEGRATING MECHANISMS TO PREVENTION</td>
<td>B. van Ommen, TNO-Quality of Life, Zeist, The Netherlands</td>
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<td>15.25</td>
<td>IN093</td>
<td>BACTERIA-HOST INTERACTION IN CHRONIC DISEASE: INFLAMMATION MEETS METABOLISM</td>
<td>D. Haller, Technical University of Munich, Germany</td>
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<td>15.50</td>
<td>IN094</td>
<td>PROTEOMIC BIOMARKERS OF VULNERABILITY TO CANCER IN THE ALIMENTARY TRACT</td>
<td>I.T. Johnson, Norwich Research Park, Norwich, UK</td>
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<td>16.15</td>
<td>RA065</td>
<td>A STEP FORWARD ON THE ROAD TO PREVENT CERVICAL CARCINOMA: A NUTRIGENETIC APPROACH</td>
<td>A. Agodi, University of Catania, Italy</td>
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**Lippi Hall**

**Risk assessment**

**MOLECULAR EPIDEMIOLOGY AND ETHICS**

Chairs: K. Vähäkangas, D. Palli

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<td>IN095</td>
<td>HOW TO PROTECT INTEGRITY OF SCIENTIFIC RESEARCH</td>
<td>K. Vähäkangas, University of Kuopio, Finland</td>
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<td>15.00</td>
<td>IN096</td>
<td>OBTAINING, SHIPPING, BIOBANKING AND USING OF HUMAN SPECIMENS: LOGISTICAL AND ETHICAL CHALLENGES</td>
<td>P. Hainaut, International Agency for Research on Cancer, Lyon, France</td>
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<td>15.30</td>
<td>IN097</td>
<td>CHILDREN AS RESEARCH SUBJECTS: TODAY’S RESEARCH FOR A BETTER FUTURE</td>
<td>D.F. Merlo, National Cancer Research Institute, Genova, Italy</td>
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<td>16.00</td>
<td>IN098</td>
<td>RECENT TRENDS AND CHALLENGES IN ENVIRONMENTAL HEALTH RESEARCH</td>
<td>S.H. Wilson, National Institute of Environmental Health Sciences, Research Triangle Park, NC, USA</td>
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<td>16.20</td>
<td>RA103</td>
<td>THE CYTOKINESIS BLOCKED MICRONUCLEUS CYTOME ASSAY AND RISK PREDICTION OF LUNG CANCER</td>
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R. El-Zein, The University of Texas M.D. Anderson Cancer Center, Houston, TX, USA

16.30 Coffee break

Botticelli Hall

17.00 IN099 Plenary Lecture

Introduction: A. Guevara, President Philippines EMS

THE DNA DAMAGE PROBLEM IN THE CONTEXT OF CANCER, AGING AND LONGEVITY

J.H.J. Hoeijmakers, Erasmus Medical Center, Rotterdam, The Netherlands

18.00-19.30 Parallel Forum

Botticelli Hall

FOR15 WORKSHOP ON CYTOTOXICITY MEASURES IN THE IN VITRO MICRONUCLEUS TEST

Chair: D. Kirkland

Brief introduction and rationale

D. Kirkland, Covance, Harrogate, UK

Summary of L5178Y cell results

E. Lorge, Servier, Fleury-les-Aubrais, France

Summary of TK6 results

A. Elhajouji, Novartis, Basel, Switzerland

Summary of hamster cell results

J. Whitwell, Covance, Harrogate, UK

Summary of US data

M. Schuler, Pfizer, Groton, CT, USA

Overall conclusions

D. Kirkland, Covance, Harrogate, UK

Angelico Hall

FOR16 RISK ASSESSMENT OF GENOTOXIC TRACE SUBSTANCES IN FOOD

Chair: R. Crebelli

FOR17 The margin of exposure approach to substances in food that are genotoxic and carcinogenic

D. Benford, Food Standard Agency, London, UK

FOR18 Possible mechanisms underlying practical thresholds for genotoxic carcinogens
FOR19 US FDA safety assessment of genotoxic food contact substances  
C.W. Sheu, Food and Drug Administration, Washington, DC, USA

Michelangelo Hall

FOR20 PREPARING THE NEXT GENERATION OF SCIENTISTS THROUGH EDUCATION AND RESEARCH  
Chair: J. Gentile

J. Gentile, Research Corporation for Science Advancement, Tucson, 
AZ, USA

D. DeMarini, US Environmental Protection Agency, Research Triangle Park, NC, USA

D. Tweets, University of Wales, Swansea, UK

Sunday, August 23

Botticelli Hall

8.30 IN100 Plenary Lecture  
Introduction: M. Chulasiri, President Thai EMS

COMPLEX CELLULAR RESPONSES TO DNA DAMAGING AGENTS  
L. Samson, Massachusetts Institute of Technology, Cambridge, MA, USA

9.15 IN101 Plenary Lecture  
Introduction: J. Gentile, Past-President IAEMS

NOVEL STRATEGIES IN THE PREVENTION OF MUTATION-RELATED DISEASES  
S. De Flora, University of Genova, Italy

10.00 Coffee break

10.30-12.30 Parallel Symposia

Michelangelo Hall
Mutational and epigenetic mechanisms  
NEW INSIGHTS IN GERM CELL MUTAGENESIS  
Chairs: F. Marchetti, C.L. Yauk

10.30 IN102 DNA DOUBLE STRAND BREAK REPAIR IN PARENTAL CHROMOSOMES OF MOUSE ZYGOTES  
P. de Boer, Radboud University, Nijmegen, The Netherlands
11.00 IN103 PATERNAL EXPOSURES AFFECT SPERM CHROMATIN AND DISTURB EPIGENETIC PROGRAMMING DURING EARLY EMBRYO DEVELOPMENT
B. Robaire, McGill University, Montreal, QC, Canada

11.30 IN104 EFFECTS OF TOBACCO SMOKE ON MALE GERM CELLS AND EARLY EMBRYONIC DEVELOPMENT
F. Marchetti, Lawrence Berkeley National Laboratory, Berkeley, CA, USA

11.50 IN105 HERITABLE EFFECTS OF EXPOSURE TO COMBUSTION DERIVED PARTICLES
C.L. Yauk, Health Canada, Ottawa, QC, Canada

12.10 EM102 3,3’-DINITRITRO-BISPHENOL A SIGNIFICANTLY DISTURBS MATURATION AND SPINDLE FORMATION, AND CHROMATIN INTEGRITY IN MOUSE OOCYTES
U. Eichenlaub-Ritter, University Bielefeld, Germany

Angelico Hall
DNA damage responses
CELLULAR DEFENSES AGAINST OXIDATIVE DAMAGE
Chairs: T. Lindahl, B. Demple

10.30 IN106 ROLES OF THE FTO AND TREX1 ENZYMES IN REMOVAL OF DAMAGED OR DISPLACED DNA
T. Lindahl, CR-UK London Research Institute, South Mimms, UK

10.50 IN107 INTEGRATING CELLULAR FUNCTION THROUGH A BASE EXCISION DNA REPAIR PROTEIN
B. Demple, Harvard School of Public Health, Boston, MA, USA

11.10 IN108 REGULATION OF BASE EXCISION REPAIR IN RESPONSE TO DNA DAMAGE
G. Dianov, University of Oxford, UK

11.30 IN109 MUTYH AND DNA POLYMERASE λ COOPERATE IN A NOVEL LONG PATCH BASE EXCISION REPAIR OF 8-oxo-GUANINE
U. Hübscher, University of Zurich, Switzerland

11.50 IN110 DNA REPAIR ENZYME NEIL1, METABOLIC SYNDROME AND CANCER
M. Dizdaroglu, National Institute of Standards and Technology, Gaithersburg, MD, USA

12.10 IN111 INTERACTION OF PROTEINS INVOLVED IN DNA REPAIR WITH AP SITE CONTAINING DNA
O. Lavrik, Russian Academy of Sciences, Novosibirsk, Russia
Lippi Hall

Environmental mutagenesis

CRITICAL ISSUES ON ENVIRONMENTAL GENOTOXICITY IN LATIN AMERICA

Chairs: L.R. Ribeiro, E. Zamorano-Ponce

10.30 IN112 INTRODUCTION TO SIMPOSIUM: CRITICAL ISSUES ON ENVIRONMENTAL GENOTOXICITY IN LATIN AMERICA

E. Zamorano-Ponce, Universidad del Bio-Bio, Chillán, Chile

10.40 IN113 DNA DAMAGE, OXIDATIVE BALANCE, AND EXPOSURE BIOMARKERS IN A RURAL POPULATION EXPOSED TO PESTICIDES.

M.A. Carballo, Universidad de Buenos Aires, Argentina

11.10 IN114 ATMOSPHERIC POLLUTION BY MUTAGENIC AGENTS IN AREAS OF INDUSTRIAL IMPACT: HUMAN BIOMONITORING

V.M.F. Vargas, Fundação Estadual de Proteção Ambiental, FEPAM/Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brazil

11.40 IN115 POLYCYCLIC AROMATIC HYDROCARBON (PAH)-DNA ADDUCTS, CHROMOSOMAL ABERRATIONS, AND CYP1A, CYP1B1 AND GSTM1 RISK VARIANTS IN PERIPHERAL BLOOD LYMPHOCYTES FROM YOUNG ADULTS LIVING IN MEXICO CITY.

M.E. Gonsebatt, UNAM, Mexico City, DF, Mexico

12.05 IN116 USE OF AGROCHEMICALS IN ARGENTINA: GENOTOXIC AND CYTOTOXIC COMPARISONS BETWEEN PURE AND FORMULATED PRODUCTS

M.L. Larramendy, University of La Plata, Argentina

Botticelli Hall

Mutagenesis and health effects

CANCER MODELS AND MECHANISMS

Chairs: K. Tanaka, Y. Pommier

10.30 IN117 NOVEL FUNCTION OF NUCLEOTIDE EXCISION REPAIR FACTOR AND ITS RELEVANCE TO XERODERMA PIGMENTOSUM AND COCKAYNE SYNDROME

K. Tanaka, Osaka University, Osaka, Japan

10.55 IN118 CHROMOSOMAL INSTABILITY IN CANCER PATHOGENESIS AND TREATMENT

A. Venkitaraman, University of Cambridge, UK

11.20 IN119 ROLE OF TOPOISOMERASE I IN GENOMIC STABILITY

Y. Pommier, National Institutes of Health, Bethesda, MD, USA

11.40 IN120 OXIDATIVE STRESS-INDUCED TUMORIGENESIS IN THE SMALL INTESTINES OF VARIOUS TYPES OF DNA REPAIR-DEFICIENT MICE

T. Tsuzuki, Kyushu University, Fukuoka, Japan
12.00 IN121 ROLE OF MICROENVIRONMENT ON TUMOR PROGRESSION: ENDOTHELIUM, ANGIogenesis AND INFLAMMATION
A. Albini, IRCCS Multimedica, Sesto San Giovanni, Milano, Italy

12.20 MH069 AN ATTEMPT TO IDENTIFY GENES INVOLVED IN PROGRESSION OF TOBACCO SMOKE ASSOCIATED CANCER
K. Szyfter, Polish Academy of Sciences, Poznan, Poland

Bronzino Hall
Prevention of mutation-related diseases
PHARMACOLOGICAL PREVENTION OF MUTATION AND CANCER
Chairs: V.E. Steele, T.W. Kensler

10.30 IN122 ANTIMUTAGENIC STRATEGIES APPLIED TO CHEMOPREVENTIVE DRUG DEVELOPMENT
V.E. Steele, National Cancer Institute, Bethesda, MD, USA

10.55 IN123 CLINICAL STRATEGIES FOR DEVELOPING ANTIMUTAGENIC CHEMOPREVENTIVE DRUGS
G.J. Kelloff, National Cancer Institute, Bethesda, MD, USA

11.20 IN124 TARGETING KEAP1-NRF2 SIGNALING WITH DRUGS
T.W. Kensler, Johns Hopkins University, Baltimore, MD, USA

11.45 IN125 CHEMOPREVENTION OF CIGARETTE SMOKE GENOTOXICITY AND CARCINOGENICITY
R. Balansky, National Center of Oncology, Sofia, Bulgaria

12.10 PD002 PHARMACOLOGICAL ANTIOXIDANTS PROTECT FROM RADIATION INDUCED DNA DAMAGE AS WELL AS GENETIC INSTABILITY AND LYMPHOMA IN ATM DEFICIENT MICE
R.H. Schiestl, University of California, Los Angeles, CA, USA

12.30 Lunch

13.30-15.30 Parallel Symposia

Michelangelo Hall
Mutational and epigenetic mechanisms
IN VIVO MUTAGENESIS: RECENT ADVANCES AND FUTURE PROSPECTS
Chairs: G.R. Douglas, J.H. Bielas

13.30 IN126 LIKE FATHER LIKE SON: TRANSGENERATIONAL GENOMIC INSTABILITY IN MAMMALS
Y.E. Dubrova, University of Leiceste, UK

14.00 IN127 THE MECHANISM AND CLINICAL UTILITY OF SOMATIC MITOCHONDRIAL MUTAGENESIS IN CANCER
J.H. Bielas, Fred Hutchinson Cancer Research Center, Seattle, WA, USA
14.30 IN128 CROSS-SPECIES, ENDOGENOUS MUTATION ASSAY BASED ON THE PIG-A GENE
J.C. Bemis, Litron Laboratories, Rochester, NY, USA

15.00 IN129 VALIDATION AND UTILITY OF TRANSGENIC RODENT GENE MUTATION ASSAYS
G.R. Douglas, Health Canada, Ottawa, ON, Canada

Botticelli Hall
DNA damage responses
DNA DAMAGE RESPONSE AS THERAPEUTIC TARGET
Chairs: A. Sarasin, P. Karran

13.30 IN130 OVEREXPRESSION OF SOME DNA REPAIR PATHWAYS ARE ASSOCIATED WITH METASTASIS RISK IN MELANOMA PATIENTS
A. Sarasin, CNRS, Villejuif, France

13.55 IN131 DNA DAMAGE AND DNA DAMAGE RESPONSES AFTER THIOPURINE/UVA TREATMENT
P. Karran, Cancer Research UK London Research Institute, South Mimms, UK

14.20 IN132 GENOTOXIC STRESS RESPONSE: MECHANISMS AND RELEVANCE TO CANCER
J. Bartek, Danish Cancer Society, Copenhagen, Denmark

14.40 IN133 PROCESSING OF DNA ADDUCTS INTO DOUBLE STRAND BREAKS
A.K. Larsen, INSERM, Université Paris 6, Paris, France

15.00 IN134 IMPLICATION OF THE NUCLEOTIDE EXCISION REPAIR MACHINERY ON THE RESPONSE TO DOXORUBICIN TREATMENT IN HUMAN FIBROBLASTS
J. Saffi, Lutheran University of Brazil, Canoas, Brazil

15.20 DD003 A MRN/TIP60 COMPLEX INVOLVED IN DNA DOUBLE STRAND BREAKS REPAIR
Y. Canitrot, LBCMCP, CNRS UMR 5088 and University of Toulouse, France

Angelico Hall
Environmental mutagenesis
SYSTEMS BIOLOGY APPROACHES TO ENVIRONMENTAL CARCINOGENESIS AND RELATED BIOMARKERS
(This Symposium is supported by ECNIS)
Chairs: A. Hirvonen, S. Kyrtopoulos

13.30 INTRODUCTION
A. Hirvonen, Finnish Institute of Occupational Health, Helsinki, Finland
13.40  IN135  INTOGEN: A NOVEL FRAMEWORK FOR INTEGRATION AND DATA-MINING OF MULTIDIMENSIONAL ONCOGENOMIC DATA  
*N. Lopez-Bigas*, Universitat Pompeu Fabra, Barcelona, Spain

14.05  IN136  THE COMPARATIVE TOXICOGENOMICS DATABASE: A DISCOVERY TOOL FOR IDENTIFYING CHEMICAL-GENE-DISEASE NETWORKS  
*C.J. Mattingly*, The Mount Desert Island Biological Laboratory, Salisbury Cove, ME, USA

14.30  IN137  METABOLIC PROFILING AS A TOOL IN BIOMARKER RESEARCH AND SYSTEMS BIOLOGY  
*H.C. Keun*, Imperial College, London, UK

14.55  IN138  BLOOD TRANSCRIPTOMICS AND EXPOSURE BIOMARKERS IN A POPULATION-BASED COHORT – THE NOWAC POSTGENOME STUDY  
*V. Dumeaux*, University of Tromsø, Norway

15.20  CONCLUSION  
*S. Kyrtopoulos*, National Hellenic Research Foundation, Athens, Greece

Lippi Hall

**YOUNG SCIENTIST SESSION I**  
Chairs: M. Kirsch-Volders, A.Zijno

13.30  DD040  DNA POLYMERASES BETA AND LAMBDA AS A POTENTIAL PARTICIPANTS OF TLS DURING GENOMIC DNA REPLICATION ON THE LEADING AND LAGGING STRANDS  
*E.A. Belousova*, Institute of Chemical Biology and Fundamental Medicine, Novosibirsk, Russia

13.45  EM053  BIOLOGICAL ACTIVITIES OF ENDOGENOUS MUTAGENS/CARCINOGENS, AMINOPHENYLNORHARTMAN AND N-NITROSO BILE ACID CONJUGATES  
*Y. Totsuka*, National Cancer Center Research Institute, Tokyo, Japan

14.00  DD096  DNA DAMAGE RESPONSES IN IRRADIATED GLOBLASTOMA CELL LINES  
*P.R.D.V. Godoy*, University of São Paulo, Ribeirão Preto, SP, Brazil

14.15  EM140  DNA DAMAGE ASSESSMENT OF HUMAN POPULATIONS EXPOSED TO AIRBORNE POLLUTANTS FROM INDUSTRIAL AND URBAN SOURCES  
*M.V. Coronas*, Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brazil

14.30  RA071  MOLECULAR GENETIC ANALYSIS OF C677T AND A1298C POLYMORPHISMS OF THE GENE OF METHYL TETRA HYDRO FOLATE REDUCTASE AS A RISK FACTOR FOR DEVELOPMENT OF CHRONIC MALNUTRITION IN
CHILDREN UNDER 3 YEARS OF THE MUNICIPALITY OF LURIBAY, EXPOSED TO PESTICIDES

R.E. Montaño Arrieta, Universidad Mayor de San Andres UMSA, La Paz, Bolivia

ME033 HYPOXIA UPREGULATES microRNA-210 AND CONTRIBUTES TO CANCER CELL SURVIVAL VIA MODULATING MITOCHONDRIAL ACTIVITY

M.E. Crosby, Yale University School of Medicine, New Haven, CT, USA

Bronzino Hall
Risk assessment
NEW DATA INITIATIVES AND PREDICTIVE APPROACHES FOR MUTAGENICITY AND CARCINOGENICITY
Chairs: R. Benigni, A. Richard

IN139 EXPERIMENTAL TESTS AND MODELING APPROACHES: GETTING THE BEST FROM BOTH

R. Benigni, Istituto Superiore di Sanità, Roma, Italy

IN140 NEW CHEMICAL/BIOLOGICAL PROFILING AND INFORMATICS APPROACHES FOR EXPLORING MUTAGENICITY AND CARCINOGENICITY: UPDATES OF EPA TOXCAST\textsuperscript{TM} AND TOX21 PROGRAMS

A. Richard, U.S. Environmental Protection Agency, Research Triangle Park, NC, USA

IN141 A KNOWLEDGE-BASE APPROACH TO IDENTIFY SIGNATURES FOR BIOLOGICAL AND CHEMICAL PAIRS IN THE RISK ASSESSMENT PROCESS

C. Yang, US Food and Drug Administration, College Park, MD, USA

IN142 THE USE OF (Q)SAR IN FOOD SAFETY ASSESSMENT

E. Lo Piparo, Institute for Health and Consumer Protection, Ispra, Varese, Italy

RA021 ENVIRONMENTAL RISK INDEX (iERICA): A NEW PROPOSAL FOR RISK ASSESSMENT INTEGRATING IN VITRO TOOLS

D. Baderna, Istituto di Ricerche Farmacologiche “Mario Negri”, Milano, Italy

RA082 DIRECTING GENOTOXICITY TESTING TO ASSIST IN THE DEVELOPMENT OF IN SILICO MODELS

R.V. Williams, Lhasa Limited, Leeds, UK

Optional tours

Social dinner

Monday, August 24
**Plenary Lecture**

**Introduction:** A.B. Prasad, President EMS India

**THE RATE OF SOMATIC MUTATIONS AND HUMAN CANCER**

*L. Luzzatto,* Istituto Toscano Tumori, Firenze, Italy

**Plenary Lecture**

**Introduction:** E. Snow, President EMS Australia-New Zealand (MEPSA)

**CAUSES AND MECHANISMS OF COLON CANCER DEVELOPMENT, AND STRATEGIES FOR ITS PREVENTION**

*K. Wakabayashi,* National Cancer Center Research Institute, Tokyo, Japan

**Coffee break**

**Parallel Symposia**

**Michelangelo Hall**  
*Mutational and epigenetic mechanisms*

**INDUCED MUTAGENESIS: A NETWORK OF INTERPLAYING PROCESSES**

**Chairs:** J.M. Essigmann, A. Abbondandolo

10.30 IN145 AN INTEGRATED VIEW OF INDUCED MUTAGENESIS IN *E. coli*

*R.P. Fuchs,* CNRS, Marseille, France

10.55 IN146 INTERPLAY OF DNA REPAIR, DNA POLYMERASES AND TRANSCRIPTION IN THE PROCESS OF SPONTANEOUS MUTAGENESIS IN YEAST

*S. Boiteux,* CNRS & CEA, Fontenay aux Roses, France

11.20 IN147 OXIDATIVE STRESS, DNA ALKYLATION AND MUTAGENESIS

*J.M. Essigmann,* Massachusetts Institute of Technology, Cambridge, MA, USA

11.45 IN148 MUTAGENIC OR ACCURATE OUTCOME OF TRANSLESION DNA SYNTHESIS IS DETERMINED BY SPECIFIC TWO-POLYMERASE MECHANISMS IN MAMMALIAN CELLS

*Z. Livneh,* Weizmann Institute of Science, Rehovot, Israel

12.10 DD025 LESION RECOGNITION AND CATALYSIS IN BER PATHWAY INVOLVE MULTIPLE CONFORMATIONAL CHANGES IN ENZYMES AND DNA

*O.S. Fedorova,* Russian Academy of Sciences, Novosibirsk, Russia

12.20 DD056 NEIL GLYCOSYLASES: NOVEL ACTIVITIES AND REGULATION
Botticelli Hall

DNA damage responses

LOOKING INTO THE FUTURE: GENOME WIDE TECHNOLOGIES IN TOXICOLOGY
Chairs: L. Mullenders, E. Prosperi

10.30 IN149 EPISTASIS ANALYSIS OF THE DNA DAMAGE RESPONSE
H. van Attikum, Leiden University, Leiden, The Netherlands
(EEMS Young Scientist Award 2009)

10.55 IN150 TRANSLATIONAL RESPONSES TO DNA DAMAGE
T.J. Begley, University at Albany, Rensselaer, NY, USA

11.20 IN151 GLOBAL ANALYSIS OF SIGNALING NETWORKS BY HIGH-RESOLUTION MASS SPECTROMETRY-BASED QUANTITATIVE PHOSPHOPROTEOMICS
J.V. Olsen, University of Copenhagen, Denmark

11.45 IN152 QUANTITATIVE IMAGING-BASED FUNCTIONAL GENOMICS SCREENING TO UNRAVEL TOXICITY RELEVANT SIGNALING PATHWAYS
B. van de Water, Leiden University, Leiden, The Netherlands

12.10 IN153 CHIP-SEQ APPROACH TO STUDY THE CELLULAR RESPONSE TO DAMAGE INDUCED TRANSCRIPTION INTERFERENCE
M. Fousteri, Leiden University, Leiden, The Netherlands

12.25 DD147 PROTEOMICS AND SPR IMAGING APPLIED TO PLATINATED DNA INTERACTOME STUDIES
J. Breton, Commissariat à l’Énergie Atomique, Grenoble, France

Angelico Hall

DNA damage responses

REGULATION OF DNA DAMAGE RESPONSE: LESSONS LEARNED FROM DOUBLE STRAND BREAK REPAIR PATHWAYS
Chairs: J. Surrallés, P. Mosesso

10.30 IN154 FANCONI ANEMIA: OMIC APPROACHES AND THERAPEUTIC APPLICATIONS
J. Surrallés, Universitat Autònoma de Barcelona, Spain

11.00 IN155 FANCM CONNECTS THE TWO GENOME INSTABILITY DISORDERS BLOOM'S SYNDROME AND FANCONI ANEMIA
A.J. Deans, London Research Institute, Cancer Research UK, South Mimms, UK

11.30 IN156 GENETIC PATHWAYS REQUIRED FOR TEMPLATE-SWITCH MEDIATED DAMAGE BYPASS REPLICATION
D. Branzei, FIRC Institute of Molecular Oncology, Milano, Italy
12.00 DD150 POLO-LIKE KINASE REGULATION OF DNA REPLICATON UNDER STRESSED CONDITIONS
   K. Trenz, Institute of Cancer Research, Sutton, UK

12.10 DD091 REPLICATION FORK STABILIZATION PROTEINS TIMELESS AND TIMELESS-INTERACTING PROTEIN (TIPIN) MAINTAIN GENOMIC STABILITY
   S.L. Smith-Roe, University of North Carolina at Chapel Hill, NC, USA
   (US-EMS Young Scientist award)

Bronzino Hall
Environmental mutagenesis
BIOLOGICAL RISKS FROM SPACE RADIATION ENVIRONMENTS
Chairs: F.A. Cucinotta, M. Durante

10.30 IN158 ATM AND TGFβ PATHWAY SIGNALING FOLLOWING X-RAY AND HEAVY IONS EXPOSURE
   F.A. Cucinotta, NASA, Houston, TX, USA

11.00 IN159 CYTOGENETIC EFFECTS OF HEAVY IONS
   M. Durante, GSI, Darmstadt, Germany

11.30 IN160 DNA DAMAGE AND REPAIR FROM SPACE RADIATION
   M.A. Tabocchini, Istituto Superiore di Sanità and INFN, Roma, Italy

11.55 IN161 POPULATION ACTION AS A MODIFIER OF RADIATION-INDUCED CARCINOGENESIS
   L. Hlatky, Tufts University, Boston, MA, USA

12.20 EM007 THE COMPARISON STUDY ON CHROMOSOMAL ABERRATIONS IN HUMAN PERIPHERAL BLOOD LYMPHOCYTES INDUCED BY 18.8 MeV PROTON AND 60Co-γ RADIATION
   Y. Chen, Beijing Institute of Radiation Medicine, Beijing, China

Lippi Hall
Prevention of mutation-related diseases
PUBLIC HEALTH GENOMICS
Chairs: W. Ricciardi, A. Brand

10.30 IN162 THE EUROPEAN AND INTERNATIONAL AGENDA OF PUBLIC HEALTH GENOMICS
   A. Brand, Maastricht University, Maastricht, The Netherlands

10.55 IN163 PUBLIC HEALTH AND GENOMIC EPIDEMIOLOGY
   S. Boccia, Università Cattolica del Sacro Cuore, Roma, Italy

11.20 IN206 HOW TO DELIVER QUALITY STANDARDS IN PUBLIC HEALTH GENOMICS? THE EXAMPLE OF GENETIC SERVICES IN EUROPE
   D. Coviello, Policlinico Foundation, Milano, Italy

11.45 IN165 TRANSLATIONAL RESEARCH IN GENOMICS
C. Janssens, Erasmus University Medical Center Rotterdam, The Netherlands

12.10 IN166 PRACTICAL IMPLEMENTATION OF PUBLIC HEALTH GENOMICS: THE CASE OF GENAR INSTITUTE

B.S. Savas, GENAR Institute for Public Health and Genomics Research, Istanbul, Turkey

12.30-14.30 Lunch and poster viewing

ME022-033; DD121-180; EM121-180; MH065-095; PD027-039; RA076-114

14.30-16.30 Parallel Symposia

Michelangelo Hall
Mutational and epigenetic mechanisms
PHYSIOLOGICAL MUTAGENESIS IN IMMUNITY
Chair: M.S. Neuberger, J. Miller

14.30 IN167 THE FUNCTIONS OF AID AND OTHER DNA DEAMINASES IN IMMUNITY

M.S. Neuberger, MRC, Cambridge, UK

15.00 IN168 INTENTIONAL MUTAGENESIS IN B CELLS: PCNA-UBIQUITYLATION CONTROLS SOMATIC HYPERMUTATION

H. Jacobs, The Netherlands Cancer Institute, Amsterdam, The Netherlands

15.25 IN169 DIVERSITY-GENERATING RETROELEMENTS

J. Miller, UCLA School of Medicine, Los Angeles, CA, USA

15.50 IN170 ERROR-PRONE REPAIR PATHWAYS MOBILIZING TLS DNA POLYMERASES IN IMMUNOGLOBULIN GENE HYPERMUTATION

C.A. Reynaud, INSERM, Paris, France

16.15 IN171 EDITING DEAMINASES: STORY OF A MULTI-TALENTED DOMAIN

S. Conticello, Istituto Toscano Tumori, Firenze, Italy

Botticelli Hall
Mutational and epigenetic mechanisms
TOLERANCE OF DNA DAMAGE: TRANSLESION DNA SYNTHESIS
Chair: A.R. Lehmann, G. Villani

14.30 IN172 REGULATION OF DNA POLYMERASE ETA IN HUMAN CELLS

A.R. Lehmann, University of Sussex, Falmer, UK
15.00 IN174 HUMAN DNA POLYMERASE NU (POLN), A UNIQUE A-FAMILY DNA POLYMERASE WHICH CAN BYPASS DNA DAMAGE
K. Takata, The University of Texas, Smithville, TX, USA

15.25 IN175 REPAIR AND TOLERANCE MECHANISMS OF DNA-PROTEIN CROSSLINK DAMAGE
H. Ide, Hiroshima University, Hiroshima, Japan

15.50 IN176 NEW FUNCTIONAL ROLES OF THE HUMAN DNA POLYMERASES ETA AND KAPPA DURING GENOMIC DNA REPLICATION
J.S. Hoffmann, CNRS, University of Toulouse, France

16.15 DD130 K63-LINKED UBIQUITIN CHAINS CONJUGATED TO PCNA CONTROL RECOMBINATION REPAIR OF ss-GAPS
G.I. Karras, Max Planck Institute of Biochemistry, Martinsried, Germany

Lippi Hall
YOUNG SCIENTIST SESSION II
Chairs: F. Pacchierotti, H.-J. Martus

14.30 EM130 A NEW PARADIGM FOR MOLECULAR TOXICOLOGY: INHIBITION OF P53-MEDIATED DNA REPAIR BY HEAVY METAL NICKEL
Young R. Seo, Kyung Hee University, Seoul, Korea

14.45 DD028 BIOCHEMICAL EVIDENCES INVOLVE DNA POLYMERASE BETA OF Trypanosoma cruzi IN REPAIR OF OXIDATIVE LESIONS IN MITOCHONDRIAL DNA
B.L.F. Schamber-Reis, Federal University of Minas Gerais, Brazil

15.00 MH013 POSTGENOMIC ALTERATIONS IN AICARDI-GOUTIÈRES SYNDROME, A RARE NEURODEGENERATIVE DISEASE OF MUTATIONAL ORIGIN
M. Longobardi, Department of Health Sciences, University of Genova, Italy

15.15 MH031 GENETIC MARKERS OF SUSCEPTIBILITY INVOLVED IN PROSTATE CANCER
H. Kuasne, Londrina State University, Londrina, PR, Brazil

15.30 MH074 BIOCHEMICAL AND GENOTOXIC EFFECTS IN PESTICIDE SPRAYERS: PRELIMINARY RESULTS
M. F. Simoniello, Universidad Nacional del Litoral, Santa Fe, Argentina

15.45 EM029 THE USE OF GENOTOXIC BIOASSAYS TO EVALUATE THE ENVIRONMENTAL QUALITY IN A REGION UNDER THE INFLUENCE OF URBAN WASTE IN GUAIABA LAKE BASIN (BRAZIL)
Angelico Hall
Mutagenesis and health effects
GENE-ENVIRONMENT INTERACTIONS IN NONCANCER DISEASES
Chairs: A. Izzotti, F.J. van Schooten

14.30 IN177 GENE ENVIRONMENT INTERACTIONS AS COMMON DETERMINANTS OF NONCANCER-DEGENERATIVE DISEASES
A. Izzotti, University of Genova, Italy

14.55 IN178 GENETIC INFLUENCES ON SMOKING BEHAVIOR AND PREVENTION OF CHRONIC DEGENERATIVE DISEASES
F.J. van Schooten, Maastricht University, Maastricht, The Netherlands

15.20 IN179 THE IMPACT OF GENETIC AND ENVIRONMENTAL FACTORS IN NEURODEGENERATION: THE EMERGING ROLE OF EPIGENETICS
L. Migliore, University of Pisa, Italy

15.45 IN180 POLYMORPHISMS OF CYTOCHROME P4501A1, CIGARETTE SMOKING AND RISK OF CORONARY ARTERY DISEASE
C.-C. Yeh, China Medical University, Taichung, Taiwan

16.10 MH095 MITOCHONDRIAL DNA HAPLOGROUPS AND ETHNICAL ORIGINS IN PATIENTS WITH MULTIPLE SCLEROSIS
H. Groot, Universidad de los Andes, Bogotà, Colombia

16.20 MH066 OXIDATIVE DAMAGE AND TRANSCRIPT DOWN-REGULATION OF DNA REPAIR GENES IN LYMPHOCYTES FROM PATIENTS WITH ALZHEIMER DISEASE, FRAILTY SYNDROME AND DIABETES MELLITUS TYPE-2
E.T. Sakamoto-Hojo, Universidade de São Paulo, Ribeirão Preto, SP, Brazil

Bronzino Hall
Prevention of mutation-related diseases
DIETARY PREVENTION OF MUTATION AND CANCER
Chairs: S. Knasmüller, N. Loprieno

14.30 IN181 USE OF THE COMET ASSAY FOR THE DETECTION OF DNA PROTECTIVE CONSTITUENT IN THE HUMAN DIET
S. Knasmüller, Medical University of Vienna, Austria

14.55 IN182 TRANSIENT GENERATION OF REACTIVE OXYGEN SPECIES AS AN IMPORTANT SIGNALLING MECHANISM IN CANCER CHEMOPREVENTION
C. Gerhäuser, German Cancer Research Center, Heidelberg, Germany
15.20 IN183 IN SEARCH OF A MECHANISM: FOOD POLYPHENOLS FROM ANTIOXIDANTS TO MODULATORS OF GENE EXPRESSION
P. Dolara, University of Firenze, Italy

15.45 IN184 NON-ANTIOXIDANT EFFECTS OF PHYTOCHEMICALS: DNA REPAIR
A.R. Collins, University of Oslo, Norway

16.10 EM023 COMPARISON OF MUTAGENICITIES AND GENE EXPRESSION PROFILES OF COMFREY AND RIDDLELIINE IN RAT LIVER
M.G. Manjanatha, National Center for Toxicological Research, Jefferson, AR, USA

16.20 EM097 PRENATAL EXPOSURE TO FLAVONOIDS: IMPLICATION FOR DEVELOPMENT OF LEUKEMIA
K. Vanhees, Maastricht University, Maastricht, The Netherlands

16.30 Coffee break

Botticelli Hall
17.00 IN185 Plenary Lecture
Introduction: P. Cooper, President EMS North-America

CELLULAR ADAPTIVE SURVIVAL RESPONSE TO OXIDATIVE, NITROSATIVE AND INFLAMMATORY STRESSES: ROLES OF REDOX-SENSITIVE TRANSCRIPTION FACTORS
Y.-J. Surh, Seoul National University, Seoul, Korea

18.00 General Assembly of the International Association of Environmental Mutagen Societies (IAEMS)

19.30-20.30 Assemblies of Regional Mutagen Societies

Tuesday, August 25

8.30-10.30 Parallel Symposia

Michelangelo Hall
Mutational and epigenetic mechanisms
MECHANISMS OF UNTARGETED MUTAGENESIS
Chairs: L.A. Loeb, T.A. Kunkel

8.30 IN186 INVOLVEMENT OF MUTATOR DNA POLYMERASES IN CARCINOGENESIS
L.A. Loeb, University of Washington, Seattle, WA, USA
9.00 IN187 THE EFFICIENCY OF DNA MISMATCH REPAIR IN *Saccharomyces cerevisiae*  
*T.A. Kunkel*, National Institute of Environmental Health Sciences, Research Triangle Park, NC, USA

9.30 IN188 PATHWAYS SUPPRESSING SPONTANEOUS MUTATION AND CANCER IN MICE  
*B.D. Preston*, University of Washington, Seattle, WA, USA

9.55 IN189 GENOMIC INSTABILITY AND CANCER IN MOUSE DNA REPLICATION MUTANTS  
*J. Schimenti*, Cornell University, Ithaca, NY, USA

10.20 ME007 HIGH FREQUENCY OF GENOMIC DELETIONS INDUCED BY ME-LEX, A SEQUENCE SELECTIVE N3-ADENINE METHYLATING AGENT, AT THE HPRT LOCUS IN CHINESE HAMSTER OVARY CELLS  
*P. Menichini*, National Cancer Research Institute (IST), Genova, Italy

**Botticelli Hall**

*Environmental mutagenesis*

**ADVANCES IN THE ASSESSMENT OF EXPOSURE AND EARLY BIOLOGICAL EFFECTS**

Chairs: S. Bonassi, D.H. Phillips

8.30 IN190 CHALLENGES IN THE DESIGN AND STATISTICAL ANALYSIS OF POPULATION STUDIES WITH HIGH-THROUGHPUT ASSAYS  
*S. Bonassi*, National Cancer Research Institute (IST), Genova, Italy

8.55 IN191 CLUES TO CANCER AETIOLOGY AND CARCINOGENIC MECHANISMS DERIVED FROM DNA ADDUCTS  
*D.H. Phillips*, Institute of Cancer Research, Sutton, UK

9.20 IN192 THE USE OF DNA ADDUCTS IN RISK ASSESSMENT  
*H. Autrup*, University of Aarhus, Denmark

9.45 IN193 GENOMIC ALTERATIONS AS EARLY INDICATORS OF ADVERSE EFFECTS OF EXPOSURES  
*R.S. Paules*, National Institute of Environmental Health Sciences, Research Triangle Park, NC, USA

10.10 IN194 MASS SPECTRAL DETECTION OF DNA ADDUCTS PRODUCED BY EXPOSURES TO CARCINOGENS  
*P.B. Farmer*, University of Leicester, UK

**Angelico Hall**

*Mutagenesis and health effects*

**NUCLEOTIDE EXCISION REPAIR AND TRANSCRIPTION: MECHANISMS AND CLINICAL IMPLICATIONS**
8.30 IN195 THE NUCLEOTIDE EXCISION REPAIR: TFIIH AND Co
J.M. Egly, CNRS, Strasbourg, France

9.00 IN196 INSIGHTS INTO GENOTYPE-PHENOTYPE RELATIONSHIPS IN THE REPAIR/TRANSCRIPTION SYNDROME TRICHOThIODYSTROPHY
D. Orioli, Institute of Molecular Genetics, CNR, Pavia, Italy

9.25 IN197 TRANSCRIPTION STALLING AND CELLULAR RESPONSES
L.H. Mullenders, Leiden University, Leiden, The Netherlands

9.50 IN198 INTERSECTING DNA REPAIR PATHWAYS AND COORDINATION WITH TRANSCRIPTION
P. Cooper, Lawrence Berkeley National Laboratory, Berkeley, CA, USA

10.15 DD052 SILENCING OF OXIDATIVELY-DAMAGED GENE IN MAMMALIAN CELLS
A. Khobta, University of Mainz, Germany

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Lippi Hall
Prevention of mutation-related diseases

DIETARY FACTORS, MUTATION AND CANCER
Chairs: L. Ferguson, R. Barale

8.30 IN199 DIETARY FACTORS, MUTATION AND CANCER
L.R. Ferguson, The University of Auckland, New Zealand

8.55 IN200 BASE EXCISION REPAIR, OXIDATIVE STRESS AND CANCER
B. Tudek, University of Warsaw, Poland

9.20 IN201 DIETARY INTAKE OF ARISTOLOCHIC ACID AS A RISK FACTOR FOR BALKAN ENDEMIC NEPHROPATHY-ASSOCIATED UROTHELIAL CANCER
V.M. Arlt, Institute of Cancer Research, Sutton, UK

9.45 IN202 THE ROLE OF GENETIC AND NON-GENETIC MECHANISMS IN FURAN RISK
A. Mally, University of Würzburg, Germany

10.10 PD032 MECHANISTIC ASPECTS OF GENOTOXICITY OF FURAN AND ITS KEY METABOLITE CIS-2-BUTENE-1,4-DIAL IN MAMMALIAN CELLS IN VITRO
P. Mosesso, Tuscia University, Viterbo, Italy

10.20 EM060 URINARY FUMONISIN B1 AS A BIOMARKER OF FUMONISIN EXPOSURE AND ITS APPLICATION IN INTERVENTION STUDIES
Y.Y. Gong, University of Leeds, UK
Bronzino Hall
Risk assessment
REPORTS FROM THE 5th INTERNATIONAL WORKSHOP ON GENOTOXICITY TESTING
Chairs: D. Kirkland, L. Müller

IN203 REPORTS FROM THE 5th INTERNATIONAL WORKSHOP ON GENOTOXICITY TESTING

8.30  D. Kirkland, Covance, Harrogate, UK
8.45  S. Galloway, Merck, West Point, PA, USA
9.00  M. Moore, Jefferson, AR, USA
9.15  P. Kasper, Federal Institute for Drugs and Medical Devices, Bonn, Germany
9.35  S. Pfuhler, Procter & Gamble, Marly, Switzerland
9.55  M. Hayashi, National Institute of Health Sciences, Tokyo, Japan
10.10 V. Thybaud, Sanofi-Aventis, Vitry sur Seine, France

10.30 Coffee break

Botticelli Hall
11.00 IN204 Plenary Lecture
Introduction: E. Dogliotti, President European EMS

THE MOLECULAR BASIS OF LIFE’S ROBUSTNESS
M. Radman, University of Paris 5, Paris, France

11.45 IN205 Plenary Lecture
Introduction: J. Yang, Representative Chinese EMS

MUTATIONS IN microRNA PRECURSORS IN HEMATOPOIETIC MALIGNANCIES
C.M. Croce, Ohio State University, Columbus, OH, USA

12.30 Closing Ceremony