

Poster Program

Poster Session 1

Sunday, 16 October 2011

18.00 - 19.30

18.00 – 18.45

[P001]	The impact of Ku-independent nonhomologous end-joining at the double-strand break sites on targeted mutagenesis in maize V. Djukanovic ¹ , S. Jones ¹ , H. Gao ¹ , M. Yang ¹ , D. Jantz ² , L.A. Lyznik ^{*1} , ¹ Pioneer Hi-Bred International, A DuPont Buisness, USA, ² Precision Biosciences, USA
[P003]	Identification of a novel type of spacer element required for imprinting in fission yeast S.E. Sayrac, S. Vengrova, E.L. Godfrey, J.Z. Dalgaard*, <i>Warwick University, UK</i>
[P005]	5-hydroxy-5-methylhydantoin DNA containing lesion: A molecular trap for DNA glycosylases F. Coste ^{*1} , Y.V. Le Bihan ¹ , F. Culard ¹ , T. Carell ² , B. Castaing ¹ , ¹ CNRS, France, ² Universität München, Germany
[P007]	Arrival of Centrin2 at sites of UV-induced DNA damage and its influence on the recruitment of the helicase TFIIH J.L. Salisbury, <i>Mayo Clinic, USA</i>
[P009]	Direct AFM visualization of MutS tetramers initiating DNA mismatch repair Y. Jiang ^{1,2} , P.E. Marszalek ^{*2} , ¹ Southeast University, China, ² Duke University, USA
[P011]	Toxic effect caused by synergistic influence of cytostatic cyclophosphamide and exogenous DNA administered to adult mice E.V. Dolgova ^{*1} , E.A. Alyamkina ¹ , S.S. Bogachev ¹ , A.V. Prokopenko ² , ¹ Institute of Cytology and Genetics, Russia, ² Novosibirsk State University, Russia
[P013]	Functional interaction of TopBP1 with PSF/p54(nrb) heterodimer A. Kuhnert ^{*1} , U. Schmidt ¹ , S. Monajembashi ² , B. Schlott ² , H.P. Saluz ^{1,3} , F. Hänel ¹ , ¹ Hans Knöll Institut Jena, Germany, ² Leibniz Institute for Age Research, Germany, ³ Friedrich Schiller University, Germany
[P015]	Gamma-rays: Effects of dose rate on DNA damage, signaling and DNA repair responses in <i>Medicago truncatula</i> cell suspension culture A. Macovei ¹ , ¹ Dipartimento di Genetica e Microbiologia, University of Pavia, Italy, ² Dipartimento di Chimica Generale, University of Pavia, Italy, ³ CRA-FLC Centro di Ricerca per le Produzioni Foraggere e Lattiero-Casearie, Italy
[P017]	Spatiotemporally different DNA repair systems participating during Epstein-Barr Virus genome maturation A. Sugimoto ^{*1,2} , Y. Nishiyama ² , T. Tsurumi ¹ , ¹ Aichi Cancer Center Research Institute, Japan, ² Nagoya University Graduate School of Medicine, Japan
[P019]	Recombination hotspots and SSB proteins couple translocation and unwinding activities of the AddAB helicase-nuclease J.T. Yeeles ^{1,3} , K. Van Aelst ¹ , M.S. Dillingham ¹ , F. Moreno-Herrero ^{*2} , ¹ University of Bristol, UK, ² Spanish National Research Council CSIC, Spain, ³ Memorial Sloan-Kettering Cancer Center, USA
[P021]	Rapid repair of DNA double strand breaks (DSBs) is a common feature of higher and lower plants, as well as mammalian cells J. Kozák, M. Holá, K.J. Angelis*, <i>Institute of Experimental Botany ASCR, Czech Republic</i>
[P023]	The structural basis for partitioning of the XRCC1/DNA ligase III-a BRCT-mediated dimer complexes M.J. Cuneo*, S.A. Gabel, J.M. Krahn, M.A. Ricker, R.E. London, <i>NIEHS/NIH, USA</i>
[P025]	Characterization and structure determination of the Cdt1 binding domain of human minichromosome maintenance (Mcm) 6 Z. Wei, C. Liu, N. Xu, B. Zhou, G. Zhu*, <i>The Hong Kong University of Science and technology, Hong Kong</i>
[P027]	Tumor protein D52 involvement in the cellular response to DNA damage Y. Chen ^{*1} , J.R. Hardy ¹ , K.K. Khanna ² , J.A. Byrne ¹ , ¹ The Children's Hospital at Westmead, Australia, ² Queensland Institute of Medical Research, Australia
[P029]	Determining the molecular mechanism of a NHEJ polymerase during DNA double-strand break repair N.C. Brissett ^{*1} , M.J. Martin ² , L. Blanco ² , A.J. Doherty ¹ , ¹ University of Sussex, UK, ² CSIC-UAM, Spain
[P031]	Replication of stabilized bioisosteric formamidopyrimidine analogues inside various DNA polymerases U. Lischke*, T.H. Gehrke, T. Carell, <i>Ludwig-Maximilians-University Munich, Germany</i>

[P033]	Structure-function studies of MYH checkpoint interactions P.J. Luncsford ¹ , D.Y. Chang ¹ , G. Shi ¹ , A. Madabushi ¹ , A.L. Lu ^{1,2} , E.A. Toth ^{1,2} , ¹ University of Maryland School of Medicine, USA, ² Marlene and Stewart Greenebaum Cancer Center, USA
[P035]	Conformational insights into nucleotide excision repair of 2-acetylaminofluorene-dG adducts B. Cho ^{*1} , V. Jain ¹ , Y. Zou ² , B. Hilton ² , ¹ Univ. of Rhode Island, USA, ² East Tennessee State Univ., USA
[P037]	Structural investigation of the complex between NucS and PCNA from pyrococcus abyssi by small angle X-ray scattering and X-ray crystallography C. Creze ^{*1} , A. Ligabue ² , J. Kuhn ² , M. Czjek ³ , D. Flament ¹ , H. Myllykallio ² , ¹ Ifremer, France, ² CNRS, France, ³ CNRS, France
[P039]	DNA damage stress response in female germ cells: Is Abl a fine tuner or a dangerous amplifier? E. Maiani ¹ , C. Di Bartolomeo ¹ , F. Maina ² , F. Sacco ¹ , M. Diederich ³ , G. Cesareni ¹ , S. Gonfloni ^{*1} , ¹ University of Rome, Italy, ² Developmental Biology Institute of Marseille-Luminy (IBDML), France, ³ Fondation de Recherche Cancer et Sang, Luxembourg
[P041]	Single molecule fluorescence studies of human MutSα-DNA interactions V. DeRocco [*] , D. Erie, ¹ University of North Carolina, USA
[P043]	The C-terminal region of Srs2 regulates its recruitment by SUMOylated PCNA S. Kim ^{*1} , H. Yoon ¹ , S. Park ² , J. Shin ¹ , H. Jung ² , B. Choi ¹ , ¹ KAIST, Republic of Korea, ² Korea Basic Science Institute, Republic of Korea
[P045]	Human endonuclease V recognizes and binds to branched DNA B. Dalhus [*] , J.E. Heggelund, I. Rosnes, C. Fladeby, I. Alseth, M. Bjoras, ¹ Oslo University Hospital, Norway
[P047]	The Mre11:Rad50 structure shows an ATP-dependent molecular clamp in DNA double-strand break repair C. Möckel ^{*2} , K. Lammens ^{1,2} , D.J. Bemeleit ² , E. Clausing ² , A. Schele ² , M. Lucas ² , ¹ Center for Integrated Protein Science Munich (CIPSM), Germany, ² Gene Center and Department of Biochemistry, Germany
[P049]	ISWI chromatin remodeling functions in the UV-induced DNA damage response O.Z. Aydin ¹ , J.A. Marteijn ¹ , L.H.F. Mullenders ² , M. Fousteri ³ , W. Vermeulen ¹ , H. Lans ^{*1} , ¹ Erasmus MC, The Netherlands, ² LUMC, The Netherlands, ³ Institute of Molecular Biology and Genetics, Greece
[P051]	Identification of KIAA1530/UV^SSA in a SILAC-based proteomics screen for ubiquitinated complexes P. Schwertman ¹ , M. Fousteri ² , J. Demmers ³ , J.H. Hoeijmakers ¹ , W. Vermeulen ¹ , J.A. Marteijn ^{*1} , ¹ Department of Genetics and Netherlands Proteomics Centre, Erasmus Medical Centre, The Netherlands, ² BCRC 'Alexander Fleming', Greece, ³ Department of Proteomics, Erasmus Medical Centre, The Netherlands
[P053]	A new role for the NHEJ ligation complex in DNA end synopsis P. Calsou ^{*1,2} , J. Cottarel ^{1,2} , P. Frit ^{1,2} , P.A. Jeggo ³ , M.R. Lieber ⁴ , M. Modesti ⁵ , ¹ CNRS; IPBS, France, ² Université de Toulouse, France, ³ University of Sussex, UK, ⁴ University of Southern California Keck School of Medicine, USA, ⁵ Laboratory of Genome Instability and Carcinogenesis, CNRS UPR 3081, France
[P055]	Molecular mechanism of daughter strand incision during DNA mismatch repair J.H.G. Lebbink ^{*1,2} , N. Hermans ¹ , H.H.K. Winterwerp ⁴ , A. Quessada-Vial ³ , T. Strick ³ , R. Kanaar ^{1,2} , ¹ Department of Genetics, Erasmus Medical Center, The Netherlands, ² Department of Radiation Oncology, Erasmus Medical Center, The Netherlands, ³ University of Paris-Diderot, France, ⁴ Netherlands Cancer Institute, The Netherlands
[P057]	How to keep away an unbidden guest: General catalytic mechanism and clade-specific protein interactions of the dUTPase enzyme family B.G. Vertessy [*] , A. Bekesi, J. Toth, G. Rona, I. Leveles, A. Horvath, ¹ Institute of Enzymology, Hungary
[P059]	DDB1-CUL4B^{DDB2} E3 ligase ubiquitinates histone H2A and destabilizes nucleosome with UV-damaged DNA V. Rapić-Otrin ^{*1,3} , L. Lan ¹ , S. Nakajima ¹ , M. Kapetanaki ¹ , C. Hsieh ¹ , M. Fagerburg ² , ¹ Department of Microbiology and Molecular Genetics, University of Pittsburgh School of Medicine, USA, ² Department of Cell Biology and Physiology, University of Pittsburgh School of Medicine, USA, ³ University of Pittsburgh Cancer Institute, USA
[P061]	APE1/REF-1 down-regulation increase cell death in T98G glioblastoma cell line treated with temozolomide A.P. Montaldi ^{*1} , E.T. Sakamoto-Hojo ^{1,2} , ¹ Faculty of Medicine of Ribeirão Preto – USP, Brazil, ² Faculty of Philosophy, Sciences and Letters of Ribeirão Preto - USP, Brazil
[P063]	ATM-mediated Mad1 Serine 214 phosphorylation is critical for its mitotic function C. Yang ¹ , X. Guo ¹ , W. Zhang ² , B. Xu ^{*1} , ¹ The Methodist Hospital Research Institute, USA, ² Southern research Institute, USA

[P065]	Structural basis of small molecules – mediated Mre11 nuclease's inhibition D. Moiani ^{*1} , A. Rodrigue ³ , M. Nicolette ⁴ , S. Harding ⁵ , C. Charbonnel ³ , F. Romoli ⁶ , S. Forli ¹ , E. Petricci ⁶ , R.G. Bristow ⁵ , T.T. Paull ⁴ , J.Y. Masson ³ , J.A. Tainer ^{1,2} , ¹ <i>The Scripps Research Institute, USA</i> , ² <i>Lawrence Berkeley National Laboratory, USA</i> , ³ <i>Laval University Cancer Research Center, USA</i> , ⁴ <i>University of Texas at Austin, USA</i> , ⁵ <i>University of Toronto & Princess Margaret Hospital, Canada</i> , ⁶ <i>Università degli Studi di Siena, Italy</i>
[P067]	Correlation of DNA repair in retinal neurons with contrasting chromatin conformations T. Gardiner [*] , K.M. Prise, <i>Queen's University Belfast, UK</i>
[P069]	REPAIRtoire - a database of DNA repair pathways K. Milanowska ^{1,2} , J. Krwawicz ³ , G. Papaj ¹ , J. Kosinski ¹ , E. Osinska ¹ , J. Lesiak ¹ , K. Poleszak ¹ , K. Rother ^{2,1} , J.M. Bujnicki ^{1,2} , ¹ <i>International Institute of Molecular and Cell Biology in Warsaw, Poland</i> , ² <i>Adam Mickiewicz University, Poland</i> , ³ <i>Institute of Biochemistry and Biophysics Polish Academy of Sciences, Poland</i>
[P071]	Biophysical characterisation of conserved regions of human CtIP M.D. Sun [*] , L. Pellegrini, <i>University of Cambridge, UK</i>
[P073]	Recognition of 5' flap structures by human flap endonuclease (FEN1) S.E. Tsutakawa ^{*1} , S. Classen ¹ , B. Chapados ² , A.S. Arvai ² , J.A. Grasby ³ , J.A. Tainer ^{1,2} , ¹ <i>Lawrence Berkeley National Laboratory, USA</i> , ² <i>The Scripps Research Institute, USA</i> , ³ <i>University of Sheffield, UK</i>
[P075]	Unravelling DNA substrate specificity of human polymerases mu and lambda during NHEJ M.J. Martin, A. Gomez-Bedoya [*] , L. Blanco, <i>Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Spain</i>
[P077]	Biophysical characterization of RAD51C from <i>Alvinella pompejana</i> G.J. Williams [*] , S. Sildas, A. Anand, D. Schild, J.A. Tainer, <i>Lawrence Berkeley Lab, USA</i>
[P079]	Assessment of DNA damage after photodynamic therapy (PDT) using a metallophthalocyanine photosensitizer A. El-Husseini ^{*1} , M. Harith ¹ , H. Abrahamse ² , ¹ <i>Cairo University, Egypt</i> , ² <i>University of Johannesburg, South Africa</i>
[P081]	Mutations altering the interplay between GkdnaC helicase and DNA reveal an insight into helicase function and unwinding mechanism Y.H. Lo ¹ , S.W. Liu ¹ , H.W. Li ² , C.D. Hsiao ^{*1} , ¹ <i>Academia Sinica, Taiwan</i> , ² <i>National Taiwan University, Taiwan</i>
18.45 – 19.30	
[P002]	Protein centric classification of DNA-protein complexes and genome wide survey of DNA repair proteins in <i>Arabidopsis thaliana</i> S. Malhotra [*] , R. Sowdhamini, <i>National Center for Biological Sciences, India</i>
[P004]	Structural basis of importin alpha-mediated nuclear transport for Ku70 and Ku80 A. Takeda ¹ , A. Barros ¹ , B. Kobe ² , M. Fontes ^{*1} , ¹ <i>Univ Estadual Paulista, Brazil</i> , ² <i>University of Queensland, Australia</i>
[P006]	Structure and function of the Rad9-binding region of the DNA damage checkpoint adaptor TopBP1 M. Rappas [*] , A.W. Oliver, L.H. Pearl, <i>University of Sussex, UK</i>
[P008]	Structural studies of RNases H2 M.P. Rychlik ¹ , M. Figiel ¹ , H. Chon ² , S.M. Cerritelli ² , R.J. Crouch ² , M. Nowotny ^{*1} , ¹ <i>International Institute of Molecular and Cell Biology, Poland</i> , ² <i>National Institutes of Health, USA</i>
[P010]	Correlated cleavage of multiply damaged substrates by base excision repair enzymes: Assays, mechanisms, and interpretation D.O. Zharkov [*] , G.V. Mechetin, <i>Institute of Chemical Biology and Fundamental Medicine SB RAS, Russia</i>
[P012]	The structural basis of substrate recognition by mammalian polynucleotide kinase 3' phosphatase F. Garces ^{*1,3} , L.H. Pearl ² , A.W. Oliver ^{1,3} , ¹ <i>The Institute of Cancer Research, UK</i> , ² <i>School of Life Sciences, University of Sussex, UK</i> , ³ <i>Genome Damage and Stability Centre, University of Sussex, UK</i>
[P014]	Probing the structure of poly(ADP-ribose) and its interaction with DNA repairing enzymes by modeling and simulation I. D'Annessa, A. Coletta, M. Falconi, A. Desideri [*] , <i>University of Rome Tor Vergata, Italy</i>
[P016]	Reversal of a mutator activity by a nearby fidelity-neutral substitution in RB69 DNA polymerase binding pocket A. Bebenek ^{*1} , J.W. Drake ² , A. Trzemecka ¹ , A. Jacewicz ¹ , ¹ <i>Institute of Biochemistry and Biophysics, PAS, Poland</i> , ² <i>National Institute of Environmental Health and Sciences, USA</i>
[P018]	Structural studies of the non-homologous end-joining complex between DNA ligase IV and XRCC4 T. Ochi [*] , D.Y. Chirgadze, Q. Wu, B.L. Sibanda, T.L. Blundell, <i>University of Cambridge, UK</i>

[P020]	Biochemical and structural X-ray investigation of the irreversible inhibition of <i>Lactococcus lactis</i> Fpg by DNA base analogs A. Biela ^{1,2} , F. Coste ¹ , J. Ciesla ² , B. Castaing ¹ , B. Tudek ² , ¹ CNRS, France, ² Institute of Biochemistry and Biophysics, PAS, Poland
[P022]	Structural and biochemical characterisation of an archaeal NHEJ DNA repair nuclease E.J. Bartlett*, N.C. Brissett, A.J. Doherty, <i>University of Sussex, UK</i>
[P024]	Role of c-Abl dependent hMSH5 tyrosine phosphorylation in DSB repair C. Her*, J. Tompkins, X. Wu, <i>Washington State University, USA</i>
[P026]	NU7026, PI3K-inhibitor, is a potent radio-sensitizer of gamma-irradiated leukaemic MOLT-4 cells A. Tichy ^{1,2} , ¹ University of Defence, Czech Republic, ² Charles University, Czech Republic
[P028]	Oxidative damage repair and protein-protein interactions of the Q338H MUTYH polymorphic variant E. Turco ¹ , P. Torreri ¹ , A. Minoprio ¹ , G.N. Ranzani ² , M. Bignami ¹ , F. Mazzei ¹ , ¹ Istituto Superiore di Sanità, Italy, ² University of Pavia, Italy
[P030]	Studying the DNA primary structure of aged and artificially degraded samples by CE-UV P. Fattorini ¹ , G. Marrubini ² , S. Sorçaburo Cillero ¹ , L. Plizza ¹ , P. Grignani ² , P. Pitacco ¹ , ¹ University of Trieste, Italy, ² University of Pavia, Italy
[P032]	Targeting and regulation of the MLL histone H3K4 methylation complex J.R. Wilson, <i>Institute of Cancer Research, UK</i>
[P034]	Conformational mapping of arylamine-DNA adducts: Structure-function-correlations B. Cho*, S. Patnaik, V. Ganesan, V. Jain, Y. Zou, <i>Univ. of Rhode Island, USA</i>
[P036]	Structural analysis of DNA replication and translesion DNA synthesis A.T. Rego, M.H. Lamers*, <i>MRC - Laboratory of Molecular Biology, UK</i>
[P038]	Structural analysis of DNA replication and translesion DNA synthesis A.T. Rego*, M.H. Lamers, <i>MRC-LMB, UK</i>
[P040]	Structural analysis of DNA repair complexes by simultaneous SFM/fluorescence microscopy H. Sanchez ¹ , C. Wyman ^{1,2} , ¹ Department of Cell Biology & Genetics, Erasmus Medical Center, The Netherlands, ² Department of Radiation Oncology, Erasmus Medical Center, The Netherlands
[P042]	The dimer-tetramer oligomeric states of mismatch repair protein MutS F.S. Groothuizen*, A. Fish, T.K. Sixma, <i>Netherlands Cancer Institute, The Netherlands</i>
[P044]	Lack of MutS protein suppresses the MMS-induced lethal effect in <i>Escherichia coli</i> AB1157 <i>dam-16 alkB</i> strain J. Krwawicz, J. Nieminuszczy, E. Grzesiuk*, <i>Institute of Biochemistry and Biophysics PAS, Poland</i>
[P046]	E3 ligase Rad18 promotes monoubiquitination rather than ubiquitin chain formation by E2 enzyme Rad6 R.G. Hibbert ¹ , A. Huang ² , R. Boelens ² , T.K. Sixma ¹ , ¹ Netherlands Cancer Institute, The Netherlands, ² Utrecht University, The Netherlands
[P048]	Specific orientation of MutS on mismatches monitored by single-molecule multiparameter fluorescence detection M. Cristovao ^{1,2} , E. Sisamak ^{3,4} , C.A.M. Seidel ³ , P. Friedhoff ¹ , ¹ Justus Liebig University, Germany, ² Erasmus Medical Center, The Netherlands, ³ Heinrich-Heine-Universität, Germany, ⁴ Royal Institute of Technology, Sweden
[P050]	Preferential DNA damage prevention by the <i>E. coli</i> aidB gene: A new mechanism for protection of specific genes V. Rippa ^{1,2} , A. Duilio ² , P. di Pasquale ² , A. Amoresano ² , P. Landini ³ , M.R. Volkert ¹ , ¹ University of Massachusetts, USA, ² University Federico II of Naples, Italy, ³ University of Milan, Italy
[P052]	Different biochemical properties of AtRECQ2 and AtRECQ3 D. Kobbe*, S. Blanck, K. Seeliger, M. Focke, H. Puchta, <i>Karlsruhe Institute of Technology, Germany</i>
[P054]	Antimutagenic properties of Brazilian conventional and transgenic soybeans (<i>glycine max</i>) against CP injury on bone marrow cells V.P. Venâncio, J.P.L. Silva, G.O.I. Moraes, M.R.P.L. Brigagão, L. Azevedo*, <i>Universidade Federal de Alfenas, Brazil</i>
[P056]	Crystal structure of the ternary complex of mouse terminal deoxynucleotidyltransferase with all its substrates at 2.5 Angstrom resolution J. Gouge, S. Rosario, F. Romain, F. Rougeon, M. Delarue*, <i>Institut Pasteur, France</i>
[P058]	Mechanism of hairpin telomere formation by a bacterial protelomerase K. Shi ¹ , W.M. Huang ² , H. Aihara ¹ , ¹ University of Minnesota, USA, ² University of Utah, USA

[P060]	Oxidative DNA damage and transcript profiles of DNA repair and stress response genes in lymphocytes from patients with type-2 diabetes mellitus and Alzheimer's disease E.T. Sakamoto-Hojo ^{1,4} , D.J. Xavier ¹ , G.S. Leandro ¹ , P. Takahashi ¹ , F.S. Silva ⁴ , A.F. Evangelista ¹ , J.C. Moriguti ² , G.A.S. Passos ^{1,3} , ¹ Department of Genetics, Faculty of Medicine of Ribeirão Preto, University of São Paulo, Brazil, ² Department of Medical Clinic, Faculty of Medicine of Ribeirão Preto, University of São Paulo, Brazil, ³ School of Dentistry of Ribeirão Preto, University of São Paulo, Brazil, ⁴ Faculty of Philosophy, Science, and Letters of Ribeirão Preto, University of São Paulo, Brazil
[P062]	Expression of the dinB::lacZ fusion in <i>Escherichia coli</i> strains deficient in BER and AlkB dioxygenase activity A. Sikora, D. Mielecki*, E. Grzesiuk, <i>Institute of Biochemistry and Biophysics PAS, Poland</i>
[P064]	Structural snapshots of DNA-PK regulation L. Spagnolo ^{1,4} , E.P. Morris ¹ , A. Rivera-Calzada ² , P.C.A. Da Fonseca ¹ , O. Llorca ² , L.H. Pearl ^{1,3} , ¹ The Institute of Cancer Research, UK, ² Centro de Investigaciones Biológicas, Spain, ³ University of Sussex, UK, ⁴ University of Edinburgh, UK
[P066]	A potential role for <i>Schizosaccharomyces pombe</i> endonuclease V in homologous recombination repair E.S. Vik ^{1,2} , C. Fladeby ^{1,2} , M. Bjørås ^{1,3} , B. Dalhus ^{1,3} , I. Alseth ^{2,1} , ¹ Oslo University Hospital HF - Rikshospitalet, Norway, ² University of Oslo, Norway, ³ Center for Molecular Biology and Neuroscience, Norway
[P068]	Comet assay: Applications for the detection of DNA damage and repair in irradiated <i>Petunia x hybrida</i> plants L. Ventura ¹ , A. Buttafava ² , A. Giovannini ³ , M. Savio ⁴ , ¹ Dipartimento di Genetica e Microbiologia, University of Pavia, Italy, ² Dipartimento di Chimica Generale, University of Pavia, Italy, ³ Cra-Unità di Ricerca per la Floricoltura e le Specie Ornamentali, Italy, ⁴ Dipartimento di Medicina sperimentale, sezione di Patologia Generale 'C. Golgi', Italy
[P070]	Ape1/Ref-1 promotes Glial Cell-Derived Neurotrophic Factor(GDNF) responsiveness through the up-regulated expression of GFR α1 H.B. Kim ¹ , M.H. Kim ¹ , M.Y. Kang ¹ , H.J. You ^{1,2} , ¹ Chosun University, Republic of Korea, ² University School of Medicine, Republic of Korea
[P072]	Structural studies of human non-homologous end joining DNA double-strand breaks repair protein complex XLF-XRCC4 Q. Wu*, T. Ochi, D.Y. Chirgadze, T.L. Blundell, <i>University of Cambridge, UK</i>
[P074]	Solution X-ray scattering reveals multiple modes of association for covalently-bound ubiquitin on PCNA S.E. Tsutakawa ¹ , J.A. MacCammon ² , M.T. Washington ³ , Z. Zhuang ⁴ , J.A. Tainer ^{1,5} , ¹ Lawrence Berkeley National Laboratory, USA, ² University of San Diego, USA, ³ University of Iowa, USA, ⁴ University of Delaware, USA, ⁵ The Scripps Research Institute, USA
[P076]	Unravelling DNA substrate specificity of human polymerases mu and lambda during NHEJ M.J. Martin*, A. Gomez-Bedoya, L. Blanco, <i>Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Spain</i>
[P078]	Studying DNA recombination and somatic hyper mutation in adalimumab specific B-cells shows broad diversity of VDJ usage and extensive hypermutation P.A. Van Schouwenburg ¹ , L.A. Van de Stadt ^{1,2} , R.N. De Jong ³ , E.E.L. Van Buren ³ , S. Kruithof ¹ , E. De Groot ¹ , M. Hart ¹ , M. Van Ham ¹ , T. Rispens ¹ , L. Aarden ¹ , G. Wolbink ^{1,2} , D. Wouters ¹ , ¹ Sanquin Research and Landsteiner Laboratory Academic Medical Centre, The Netherlands, ² Jan van Breemen Research Institute, The Netherlands, ³ Genmab B.V. Utrecht, The Netherlands
[P080]	Replication infidelity via a mismatch with Watson-Crick geometry - structural studies of misinsertion by DNA polymerase lambda K. Bebenek*, R. Gosavi, A.F. Moon, L.C. Pedersen, T. Kunkel, <i>NIEHS-NIH, USA</i>

Poster Session 2

Monday, 17 October 2011
14.30 - 16.00

14.30 – 15.15

[P002]	Protein centric classification of DNA-protein complexes and genome wide survey of DNA repair proteins in <i>Arabidopsis thaliana</i> S. Malhotra*, R. Sowdhamini, <i>National Center for Biological Sciences, India</i>
[P004]	Structural basis of importin alpha-mediated nuclear transport for Ku70 and Ku80 A. Takeda ¹ , A. Barros ¹ , B. Kobe ² , M. Fontes* ¹ , ¹ <i>Univ Estadual Paulista, Brazil</i> , ² <i>University of Queensland, Australia</i>
[P006]	Structure and function of the Rad9-binding region of the DNA damage checkpoint adaptor TopBP1 M. Rappas*, A.W. Oliver, L.H. Pearl, <i>University of Sussex, UK</i>
[P008]	Structural studies of RNases H2 M.P. Rychlik ¹ , M. Figiel ¹ , H. Chon ² , S.M. Cerritelli ² , R.J. Crouch ² , M. Nowotny* ¹ , ¹ <i>International Institute of Molecular and Cell Biology, Poland</i> , ² <i>National Institutes of Health, USA</i>
[P010]	Correlated cleavage of multiply damaged substrates by base excision repair enzymes: Assays, mechanisms, and interpretation D.O. Zharkov*, G.V. Mechetin, <i>Institute of Chemical Biology and Fundamental Medicine SB RAS, Russia</i>
[P012]	The structural basis of substrate recognition by mammalian polynucleotide kinase 3' phosphatase F. Garces* ^{1,3} , L.H. Pearl ² , A.W. Oliver ^{1,3} , ¹ <i>The Institute of Cancer Research, UK</i> , ² <i>School of Life Sciences, University of Sussex, UK</i> , ³ <i>Genome Damage and Stability Centre, University of Sussex, UK</i>
[P014]	Probing the structure of poly(ADP-ribose) and its interaction with DNA repairing enzymes by modeling and simulation I. D'Annessa, A. Coletta, M. Falconi, A. Desideri*, <i>University of Rome Tor Vergata, Italy</i>
[P016]	Reversal of a mutator activity by a nearby fidelity-neutral substitution in RB69 DNA polymerase binding pocket A. Bebenek* ¹ , J.W. Drake ² , A. Trzemecka ¹ , A. Jacewicz ¹ , ¹ <i>Institute of Biochemistry and Biophysics, PAS, Poland</i> , ² <i>National Institute of Environmental Health and Sciences, USA</i>
[P018]	Structural studies of the non-homologous end-joining complex between DNA ligase IV and XRCC4 T. Ochi*, D.Y. Chirgadze, Q. Wu, B.L. Sibanda, T.L. Blundell, <i>University of Cambridge, UK</i>
[P020]	Biochemical and structural X-ray investigation of the irreversible inhibition of <i>Lactococcus lactis</i> Fpg by DNA base analogs A. Biela* ^{1,2} , F. Coste ¹ , J. Ciesla ² , B. Castaing ¹ , B. Tudek ² , ¹ <i>CNRS, France</i> , ² <i>Institute of Biochemistry and Biophysics, PAS, Poland</i>
[P022]	Structural and biochemical characterisation of an archaeal NHEJ DNA repair nuclease E.J. Bartlett*, N.C. Brissett, A.J. Doherty, <i>University of Sussex, UK</i>
[P024]	Role of c-Abl dependent hMSH5 tyrosine phosphorylation in DSB repair C. Her*, J. Tompkins, X. Wu, <i>Washington State University, USA</i>
[P026]	NU7026, PI3K-inhibitor, is a potent radio-sensitizer of gamma-irradiated leukaemic MOLT-4 cells A. Tichy ^{1,2} , ¹ <i>University of Defence, Czech Republic</i> , ² <i>Charles University, Czech Republic</i>
[P028]	Oxidative damage repair and protein-protein interactions of the Q338H MUTYH polymorphic variant E. Turco ¹ , P. Torreri ¹ , A. Minoprio ¹ , G.N. Ranzani ² , M. Bignami ¹ , F. Mazzei* ¹ , ¹ <i>Istituto Superiore di Sanità, Italy</i> , ² <i>University of Pavia, Italy</i>
[P030]	Studying the DNA primary structure of aged and artificially degraded samples by CE-UV P. Fattorini* ¹ , G. Marrubini ² , S. Sorçaburo Ciliero ¹ , L. Plizza ¹ , P. Grignani ² , P. Pitacco ¹ , ¹ <i>University of Trieste, Italy</i> , ² <i>University of Pavia, Italy</i>
[P032]	Targeting and regulation of the MLL histone H3K4 methylation complex J.R. Wilson, <i>Institute of Cancer Research, UK</i>
[P034]	Conformational mapping of arylamine-DNA adducts: Structure-function-correlations B. Cho*, S. Patnaik, V. Ganesan, V. Jain, Y. Zou, <i>Univ. of Rhode Island, USA</i>
[P036]	Structural analysis of DNA replication and translesion DNA synthesis A.T. Rego, M.H. Lamers*, <i>MRC - Laboratory of Molecular Biology, UK</i>

[P038]	Structural analysis of DNA replication and translesion DNA synthesis A.T. Rego*, M.H. Lamers, <i>MRC-LMB, UK</i>
[P040]	Structural analysis of DNA repair complexes by simultaneous SFM/fluorescence microscopy H. Sanchez* ¹ , C. Wyman ^{1,2} , ¹ <i>Department of Cell Biology & Genetics, Erasmus Medical Center, The Netherlands</i> , ² <i>Department of Radiation Oncology, Erasmus Medical Center, The Netherlands</i>
[P042]	The dimer-tetramer oligomeric states of mismatch repair protein MutS F.S. Groothuizen*, A. Fish, T.K. Sixma, <i>Netherlands Cancer Institute, The Netherlands</i>
[P044]	Lack of MutS protein suppresses the MMS-induced lethal effect in <i>Escherichia coli</i> AB1157 <i>dam-16 alkB</i> strain J. Krwawicz, J. Nieminuszczy, E. Grzesiuk*, <i>Institute of Biochemistry and Biophysics PAS, Poland</i>
[P046]	E3 ligase Rad18 promotes monoubiquitination rather than ubiquitin chain formation by E2 enzyme Rad6 R.G. Hibbert* ¹ , A. Huang ² , R. Boelens ² , T.K. Sixma ¹ , ¹ <i>Netherlands Cancer Institute, The Netherlands</i> , ² <i>Utrecht University, The Netherlands</i>
[P048]	Specific orientation of MutS on mismatches monitored by single-molecule multiparameter fluorescence detection M. Cristovao* ^{1,2} , E. Sisamak ^{3,4} , C.A.M. Seidel ³ , P. Friedhoff ¹ , ¹ <i>Justus Liebig University, Germany</i> , ² <i>Erasmus Medical Center, The Netherlands</i> , ³ <i>Heinrich-Heine-Universität, Germany</i> , ⁴ <i>Royal Institute of Technology, Sweden</i>
[P050]	Preferential DNA damage prevention by the <i>E. coli</i> <i>aidB</i> gene: A new mechanism for protection of specific genes V. Rippa ^{1,2} , A. Duilio ² , P. di Pasquale* ² , A. Amoresano ² , P. Landini ³ , M.R. Volkert ¹ , ¹ <i>University of Massachusetts, USA</i> , ² <i>University Federico II of Naples, Italy</i> , ³ <i>University of Milan, Italy</i>
[P052]	Different biochemical properties of AtRECQ2 and AtRECQ3 D. Kobbe*, S. Blanck, K. Seeliger, M. Focke, H. Puchta, <i>Karlsruhe Institute of Technology, Germany</i>
[P054]	Antimutagenic properties of Brazilian conventional and transgenic soybeans (<i>glycine max</i>) against CP injury on bone marrow cells V.P. Venâncio, J.P.L. Silva, G.O.I. Moraes, M.R.P.L. Brigagão, L. Azevedo*, <i>Universidade Federal de Alfenas, Brazil</i>
[P056]	Crystal structure of the ternary complex of mouse terminal deoxynucleotidyltransferase with all its substrates at 2.5 Angstrom resolution J. Gouge, S. Rosario, F. Romain, F. Rougeon, M. Delarue*, <i>Institut Pasteur, France</i>
[P058]	Mechanism of hairpin telomere formation by a bacterial protelomerase K. Shi ¹ , W.M. Huang ² , H. Aihara* ¹ , ¹ <i>University of Minnesota, USA</i> , ² <i>University of Utah, USA</i>
[P060]	Oxidative DNA damage and transcript profiles of DNA repair and stress response genes in lymphocytes from patients with type-2 diabetes mellitus and Alzheimer's disease E.T. Sakamoto-Hojo* ^{1,4} , D.J. Xavier ¹ , G.S. Leandro ¹ , P. Takahashi ¹ , F.S. Silva ⁴ , A.F. Evangelista ¹ , J.C. Moriguti ² , G.A.S. Passos ^{1,3} , ¹ <i>Department of Genetics, Faculty of Medicine of Ribeirão Preto, University of São Paulo, Brazil</i> , ² <i>Department of Medical Clinic, Faculty of Medicine of Ribeirão Preto, University of São Paulo, Brazil</i> , ³ <i>School of Dentistry of Ribeirão Preto, University of São Paulo, Brazil</i> , ⁴ <i>Faculty of Philosophy, Science, and Letters of Ribeirão Preto, University of São Paulo, Brazil</i>
[P062]	Expression of the <i>dinB::lacZ</i> fusion in <i>Escherichia coli</i> strains deficient in BER and AlkB dioxygenase activity A. Sikora, D. Mielecki*, E. Grzesiuk, <i>Institute of Biochemistry and Biophysics PAS, Poland</i>
[P064]	Structural snapshots of DNA-PK regulation L. Spagnolo* ^{1,4} , E.P. Morris ¹ , A. Rivera-Calzada ² , P.C.A. Da Fonseca ¹ , O. Llorca ² , L.H. Pearl ^{1,3} , ¹ <i>The Institute of Cancer Research, UK</i> , ² <i>Centro de Investigaciones Biológicas, Spain</i> , ³ <i>University of Sussex, UK</i> , ⁴ <i>University of Edinburgh, UK</i>
[P066]	A potential role for <i>Schizosaccharomyces pombe</i> endonuclease V in homologous recombination repair E.S. Vik* ^{1,2} , C. Fladeby ^{1,2} , M. Bjørås ^{1,3} , B. Dalhus ^{1,3} , I. Alseth ^{2,1} , ¹ <i>Oslo University Hospital HF - Rikshospitalet, Norway</i> , ² <i>University of Oslo, Norway</i> , ³ <i>Center for Molecular Biology and Neuroscience, Norway</i>
[P068]	Comet assay: Applications for the detection of DNA damage and repair in irradiated <i>Petunia x hybrida</i> plants L. Ventura* ¹ , A. Buttafava ² , A. Giovannini ³ , M. Savio ⁴ , ¹ <i>Dipartimento di Genetica e Microbiologia, University of Pavia, Italy</i> , ² <i>Dipartimento di Chimica Generale, University of Pavia, Italy</i> , ³ <i>Cra-Unità di Ricerca per la Floricoltura e le Specie Ornamentali, Italy</i> , ⁴ <i>Dipartimento di Medicina sperimentale, sezione di Patologia Generale 'C. Golgi', Italy</i>

[P070]	Ape1/Ref-1 promotes Glial Cell-Derived Neurotrophic Factor(GDNF) responsiveness through the up-regulated expression of GFR α1 H.B. Kim ^{*1} , M.H. Kim ¹ , M.Y. Kang ¹ , H.J. You ^{1,2} , ¹ Chosun University, Republic of Korea, ² University School of Medicine, Republic of Korea
[P072]	Structural studies of human non-homologous end joining DNA double-strand breaks repair protein complex XLF-XRCC4 Q. Wu [*] , T. Ochi, D.Y. Chirgadze, T.L. Blundell, University of Cambridge, UK
[P074]	Solution X-ray scattering reveals multiple modes of association for covalently-bound ubiquitin on PCNA S.E. Tsutakawa ^{*1} , J.A. MacCammon ² , M.T. Washington ³ , Z. Zhuang ⁴ , J.A. Tainer ^{1,5} , ¹ Lawrence Berkeley National Laboratory, USA, ² University of San Diego, USA, ³ University of Iowa, USA, ⁴ University of Delaware, USA, ⁵ The Scripps Research Institute, USA
[P076]	Unravelling DNA substrate specificity of human polymerases mu and lambda during NHEJ M.J. Martin [*] , A. Gomez-Bedoya, L. Blanco, Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Spain
[P078]	Studying DNA recombination and somatic hyper mutation in adalimumab specific B-cells shows broad diversity of VDJ usage and extensive hypermutation P.A. Van Schouwenburg ^{*1} , L.A. Van de Stadt ^{1,2} , R.N. De Jong ³ , E.E.L. Van Buren ³ , S. Kruithof ¹ , E. De Groot ¹ , M. Hart ¹ , M. Van Ham ¹ , T. Rispens ¹ , L. Aarden ¹ , G. Wolbink ^{1,2} , D. Wouters ¹ , ¹ Sanquin Research and Landsteiner Laboratory Academic Medical Centre, The Netherlands, ² Jan van Breemen Research Institute, The Netherlands, ³ Genmab B.V. Utrecht, The Netherlands
[P080]	Replication infidelity via a mismatch with Watson-Crick geometry - structural studies of misinsertion by DNA polymerase lambda K. Bebenek [*] , R. Gosavi, A.F. Moon, L.C. Pedersen, T. Kunkel, NIEHS-NIH, USA
15.15 – 16.00	
[P001]	The impact of Ku-independent nonhomologous end-joining at the double-strand break sites on targeted mutagenesis in maize V. Djukanovic ¹ , S. Jones ¹ , H. Gao ¹ , M. Yang ¹ , D. Jantz ² , L.A. Lyznik ^{*1} , ¹ Pioneer Hi-Bred International, A DuPont Business, USA, ² Precision Biosciences, USA
[P003]	Identification of a novel type of spacer element required for imprinting in fission yeast S.E. Sayrac, S. Vengrova, E.L. Godfrey, J.Z. Dalgaard [*] , Warwick University, UK
[P005]	5-hydroxy-5-methylhydantoin DNA containing lesion: A molecular trap for DNA glycosylases F. Coste ^{*1} , Y.V. Le Bihan ¹ , F. Culard ¹ , T. Carell ² , B. Castaing ¹ , ¹ CNRS, France, ² Universität München, Germany
[P007]	Arrival of Centrin2 at sites of UV-induced DNA damage and its influence on the recruitment of the helicase TFIIH J.L. Salisbury, Mayo Clinic, USA
[P009]	Direct AFM visualization of MutS tetramers initiating DNA mismatch repair Y. Jiang ^{1,2} , P.E. Marszalek ^{*2} , ¹ Southeast University, China, ² Duke University, USA
[P011]	Toxic effect caused by synergistic influence of cytostatic cyclophosphamide and exogenous DNA administered to adult mice E.V. Dolgova ^{*1} , E.A. Alyamkina ¹ , S.S. Bogachev ¹ , A.V. Prokopenko ² , ¹ Institute of Cytology and Genetics, Russia, ² Novosibirsk State University, Russia
[P013]	Functional interaction of TopBP1 with PSF/p54(nrb) heterodimer A. Kuhnert ^{*1} , U. Schmidt ¹ , S. Monajembashi ² , B. Schlott ² , H.P. Saluz ^{1,3} , F. Hänel ¹ , ¹ Hans Knöll Institut Jena, Germany, ² Leibniz Institute for Age Research, Germany, ³ Friedrich Schiller University, Germany
[P015]	Gamma-rays: Effects of dose rate on DNA damage, signaling and DNA repair responses in Medicago truncatula cell suspension culture A. Macovei ¹ , ¹ Dipartimento di Genetica e Microbiologia, University of Pavia, Italy, ² Dipartimento di Chimica Generale, University of Pavia, Italy, ³ CRA-FLC Centro di Ricerca per le Produzioni Foraggere e Lattiero-Casearie, Italy
[P017]	Spatiotemporally different DNA repair systems participating during Epstein-Barr Virus genome maturation A. Sugimoto ^{*1,2} , Y. Nishiyama ² , T. Tsurumi ¹ , ¹ Aichi Cancer Center Research Institute, Japan, ² Nagoya University Graduate School of Medicine, Japan
[P019]	Recombination hotspots and SSB proteins couple translocation and unwinding activities of the AddAB helicase-nuclease J.T. Yeeles ^{1,3} , K. Van Aelst ¹ , M.S. Dillingham ¹ , F. Moreno-Herrero ^{*2} , ¹ University of Bristol, UK, ² Spanish National Research Council CSIC, Spain, ³ Memorial Sloan-Kettering Cancer Center, USA

[P021]	Rapid repair of DNA double strand breaks (DSBs) is a common feature of higher and lower plants, as well as mammalian cells J. Kozák, M. Holá, K.J. Angelis*, <i>Institute of Experimental Botany ASCR, Czech Republic</i>
[P023]	The structural basis for partitioning of the XRCC1/DNA ligase III-a BRCT-mediated dimer complexes M.J. Cuneo*, S.A. Gabel, J.M. Krahn, M.A. Ricker, R.E. London, <i>NIEHS/NIH, USA</i>
[P025]	Characterization and structure determination of the Cdt1 binding domain of human minichromosome maintenance (Mcm) 6 Z. Wei, C. Liu, N. Xu, B. Zhou, G. Zhu*, <i>The Hong Kong University of Science and Technology, Hong Kong</i>
[P027]	Tumor protein D52 involvement in the cellular response to DNA damage Y. Chen*, J.R. Hardy ¹ , K.K. Khanna ² , J.A. Byrne ¹ , ¹ <i>The Children's Hospital at Westmead, Australia</i> , ² <i>Queensland Institute of Medical Research, Australia</i>
[P029]	Determining the molecular mechanism of a NHEJ polymerase during DNA double-strand break repair N.C. Brissett*, M.J. Martin ² , L. Blanco ² , A.J. Doherty ¹ , ¹ <i>University of Sussex, UK</i> , ² <i>CSIC-UAM, Spain</i>
[P031]	Replication of stabilized bioisosteric formamidopyrimidine analogues inside various DNA polymerases U. Lischke*, T.H. Gehrke, T. Carell, <i>Ludwig-Maximilians-University Munich, Germany</i>
[P033]	Structure-function studies of MYH checkpoint interactions P.J. Luncsford ¹ , D.Y. Chang ¹ , G. Shi ¹ , A. Madabushi ¹ , A.L. Lu ^{1,2} , E.A. Toth* ^{1,2} , ¹ <i>University of Maryland School of Medicine, USA</i> , ² <i>Marlene and Stewart Greenebaum Cancer Center, USA</i>
[P035]	Conformational insights into nucleotide excision repair of 2-acetylaminofluorene-dG adducts B. Cho*, V. Jain ¹ , Y. Zou ² , B. Hilton ² , ¹ <i>Univ. of Rhode Island, USA</i> , ² <i>East Tennessee State Univ., USA</i>
[P037]	Structural investigation of the complex between NucS and PCNA from <i>pyrococcus abyssi</i> by small angle X-ray scattering and X-ray crystallography C. Creze*, A. Ligabue ² , J. Kuhn ² , M. Czjzek ³ , D. Flament ¹ , H. Myllykallio ² , ¹ <i>Ifremer, France</i> , ² <i>CNRS, France</i> , ³ <i>CNRS, France</i>
[P039]	DNA damage stress response in female germ cells: Is Abl a fine tuner or a dangerous amplifier? E. Maiani ¹ , C. Di Bartolomeo ¹ , F. Maina ² , F. Sacco ¹ , M. Diederich ³ , G. Cesareni ¹ , S. Gonfloni* ¹ , ¹ <i>University of Rome, Italy</i> , ² <i>Developmental Biology Institute of Marseille-Luminy (IBDML), France</i> , ³ <i>Fondation de Recherche Cancer et Sang, Luxembourg</i>
[P041]	Single molecule fluorescence studies of human MutSα-DNA interactions V. DeRocco*, D. Erie, <i>University of North Carolina, USA</i>
[P043]	The C-terminal region of Srs2 regulates its recruitment by SUMOylated PCNA S. Kim*, H. Yoon ¹ , S. Park ² , J. Shin ¹ , H. Jung ² , B. Choi ¹ , ¹ <i>KAIST, Republic of Korea</i> , ² <i>Korea Basic Science Institute, Republic of Korea</i>
[P045]	Human endonuclease V recognizes and binds to branched DNA B. Dalhus*, J.E. Heggelund, I. Rosnes, C. Fladeby, I. Alseth, M. Bjoras, <i>Oslo University Hospital, Norway</i>
[P047]	The Mre11:Rad50 structure shows an ATP-dependent molecular clamp in DNA double-strand break repair C. Möckel*, K. Lammens ^{1,2} , D.J. Bemeleit ² , E. Clausing ² , A. Schele ² , M. Lucas ² , ¹ <i>Center for Integrated Protein Science Munich (CIPSM), Germany</i> , ² <i>Gene Center and Department of Biochemistry, Germany</i>
[P049]	ISWI chromatin remodeling functions in the UV-induced DNA damage response O.Z. Aydin ¹ , J.A. Marteijn ¹ , L.H.F. Mullenders ² , M. Fousteri ³ , W. Vermeulen ¹ , H. Lans* ¹ , ¹ <i>Erasmus MC, The Netherlands</i> , ² <i>LUMC, The Netherlands</i> , ³ <i>Institute of Molecular Biology and Genetics, Greece</i>
[P051]	Identification of KIAA1530/UV^SSA in a SILAC-based proteomics screen for ubiquitinated complexes P. Schwertman ¹ , M. Fousteri ² , J. Demmers ³ , J.H. Hoeijmakers ¹ , W. Vermeulen ¹ , J.A. Marteijn* ¹ , ¹ <i>Department of Genetics and Netherlands Proteomics Centre, Erasmus Medical Centre, The Netherlands</i> , ² <i>BCRC 'Alexander Fleming', Greece</i> , ³ <i>Department of Proteomics, Erasmus Medical Centre, The Netherlands</i>
[P053]	A new role for the NHEJ ligation complex in DNA end synopsis P. Calsou* ^{1,2} , J. Cottarel ^{1,2} , P. Frit ^{1,2} , P.A. Jeggo ³ , M.R. Lieber ⁴ , M. Modesti ⁵ , ¹ <i>CNRS; IPBS, France</i> , ² <i>Université de Toulouse, France</i> , ³ <i>University of Sussex, UK</i> , ⁴ <i>University of Southern California Keck School of Medicine, USA</i> , ⁵ <i>Laboratory of Genome Instability and Carcinogenesis, CNRS UPR 3081, France</i>
[P055]	Molecular mechanism of daughter strand incision during DNA mismatch repair J.H.G. Lebbink* ^{1,2} , N. Hermans ¹ , H.H.K. Winterwerp ⁴ , A. Quessada-Vial ³ , T. Strick ³ , R. Kanaar ^{1,2} , ¹ <i>Department of Genetics, Erasmus Medical Center, The Netherlands</i> , ² <i>Department of Radiation Oncology, Erasmus Medical Center, The Netherlands</i> , ³ <i>University of Paris-Diderot, France</i> , ⁴ <i>Netherlands Cancer Institute, The Netherlands</i>
[P057]	How to keep away an unbidden guest: General catalytic mechanism and clade-specific protein interactions of the dUTPase enzyme family B.G. Vertessy*, A. Bekesi, J. Toth, G. Rona, I. Leveles, A. Horvath, <i>Institute of Enzymology, Hungary</i>

[P059]	DDB1-CUL4B^{DDB2} E3 ligase ubiquitinates histone H2A and destabilizes nucleosome with UV-damaged DNA V. Rapić-Otrin ^{1,3} , L. Lan ¹ , S. Nakajima ¹ , M. Kapetanaki ¹ , C. Hsieh ¹ , M. Fagerburg ² , ¹ Department of Microbiology and Molecular Genetics, University of Pittsburgh School of Medicine, USA, ² Department of Cell Biology and Physiology, University of Pittsburgh School of Medicine, USA, ³ University of Pittsburgh Cancer Institute, USA
[P061]	APE1/REF-1 down-regulation increase cell death in T98G glioblastoma cell line treated with temozolomide A.P. Montaldi ¹ , E.T. Sakamoto-Hojo ^{1,2} , ¹ Faculty of Medicine of Ribeirão Preto – USP, Brazil, ² Faculty of Philosophy, Sciences and Letters of Ribeirão Preto - USP, Brazil
[P063]	ATM-mediated Mad1 Serine 214 phosphorylation is critical for its mitotic function C. Yang ¹ , X. Guo ¹ , W. Zhang ² , B. Xu ¹ , ¹ The Methodist Hospital Research Institute, USA, ² Southern research Institute, USA
[P065]	Structural basis of small molecules – mediated Mre11 nuclease's inhibition D. Moiani ¹ , A. Rodrigue ³ , M. Nicolette ⁴ , S. Harding ⁵ , C. Charbonnel ³ , F. Romoli ⁶ , S. Forli ¹ , E. Petricci ⁶ , R.G. Bristow ⁵ , T.T. Paull ⁴ , J.Y. Masson ³ , J.A. Tainer ^{1,2} , ¹ The Scripps Research Institute, USA, ² Lawrence Berkeley National Laboratory, USA, ³ Laval University Cancer Research Center, USA, ⁴ University of Texas at Austin, USA, ⁵ University of Toronto & Princess Margaret Hospital, Canada, ⁶ Università degli Studi di Siena, Italy
[P067]	Correlation of DNA repair in retinal neurons with contrasting chromatin conformations T. Gardiner*, K.M. Prise, Queen's University Belfast, UK
[P069]	REPAIRtoire - a database of DNA repair pathways K. Milanowska ^{1,2} , J. Krwawicz ³ , G. Papaj ¹ , J. Kosinski ¹ , E. Osinska ¹ , J. Lesiak ¹ , K. Poleszak ¹ , K. Rother ^{2,1} , J.M. Bujnicki ^{1,2} , ¹ International Institute of Molecular and Cell Biology in Warsaw, Poland, ² Adam Mickiewicz University, Poland, ³ Institute of Biochemistry and Biophysics Polish Academy of Sciences, Poland
[P071]	Biophysical characterisation of conserved regions of human CtIP M.D. Sun*, L. Pellegrini, University of Cambridge, UK
[P073]	Recognition of 5' flap structures by human flap endonuclease (FEN1) S.E. Tsutakawa ¹ , S. Classen ¹ , B. Chapados ² , A.S. Arvai ² , J.A. Grasby ³ , J.A. Tainer ^{1,2} , ¹ Lawrence Berkeley National Laboratory, USA, ² The Scripps Research Institute, USA, ³ University of Sheffield, UK
[P075]	Unravelling DNA substrate specificity of human polymerases mu and lambda during NHEJ M.J. Martin, A. Gomez-Bedoya*, L. Blanco, Centro de Biología Molecular Severo Ochoa (CSIC-UAM), Spain
[P077]	Biophysical characterization of RAD51C from Alvinella pompejana G.J. Williams*, S. Sildas, A. Anand, D. Schild, J.A. Tainer, Lawrence Berkeley Lab, USA
[P079]	Assessment of DNA damage after photodynamic therapy (PDT) using a metallophthalocyanine photosensitizer A. El-Hussein ¹ , M. Harith ¹ , H. Abrahamse ² , ¹ Cairo University, Egypt, ² University of Johannesburg, South Africa
[P081]	Mutations altering the interplay between GkDnaC helicase and DNA reveal an insight into helicase function and unwinding mechanism Y.H. Lo ¹ , S.W. Liu ¹ , H.W. Li ² , C.D. Hsiao ¹ , ¹ Academia Sinica, Taiwan, ² National Taiwan University, Taiwan

Poster Session 3 (Optional)

Tuesday, 18 October 2011

13.00 - 14.30

[P001]	The impact of Ku-independent nonhomologous end-joining at the double-strand break sites on targeted mutagenesis in maize V. Djukanovic ¹ , S. Jones ¹ , H. Gao ¹ , M. Yang ¹ , D. Jantz ² , L.A. Lyznik ^{*1} , ¹ Pioneer Hi-Bred International, A DuPont Buisness, USA, ² Precision Biosciences, USA
[P002]	Protein centric classification of DNA-protein complexes and genome wide survey of DNA repair proteins in <i>Arabidopsis thaliana</i> S. Malhotra*, R. Sowdhamini, <i>National Center for Biological Sciences, India</i>
[P003]	Identification of a novel type of spacer element required for imprinting in fission yeast S.E. Sayrac, S. Vengrova, E.L. Godfrey, J.Z. Dalgaard*, <i>Warwick University, UK</i>
[P004]	Structural basis of importin alpha-mediated nuclear transport for Ku70 and Ku80 A. Takeda ¹ , A. Barros ¹ , B. Kobe ² , M. Fontes ^{*1} , ¹ Univ Estadual Paulista, Brazil, ² University of Queensland, Australia
[P005]	5-hydroxy-5-methylhydantoin DNA containing lesion: A molecular trap for DNA glycosylases F. Coste ^{*1} , Y.V. Le Bihan ¹ , F. Culard ¹ , T. Carell ² , B. Castaing ¹ , ¹ CNRS, France, ² Universität München, Germany
[P006]	Structure and function of the Rad9-binding region of the DNA damage checkpoint adaptor TopBP1 M. Rappas*, A.W. Oliver, L.H. Pearl, <i>University of Sussex, UK</i>
[P007]	Arrival of Centrin2 at sites of UV-induced DNA damage and its influence on the recruitment of the helicase TFIIH J.L. Salisbury, <i>Mayo Clinic, USA</i>
[P008]	Structural studies of RNases H2 M.P. Rychlik ¹ , M. Figiel ¹ , H. Chon ² , S.M. Cerritelli ² , R.J. Crouch ² , M. Nowotny ^{*1} , ¹ International Institute of Molecular and Cell Biology, Poland, ² National Institutes of Health, USA
[P009]	Direct AFM visualization of MutS tetramers initiating DNA mismatch repair Y. Jiang ^{1,2} , P.E. Marszalek ^{*2} , ¹ Southeast University, China, ² Duke University, USA
[P010]	Correlated cleavage of multiply damaged substrates by base excision repair enzymes: Assays, mechanisms, and interpretation D.O. Zharkov*, G.V. Mechetin, <i>Institute of Chemical Biology and Fundamental Medicine SB RAS, Russia</i>
[P011]	Toxic effect caused by synergistic influence of cytostatic cyclophosphamide and exogenous DNA administered to adult mice E.V. Dolgova ^{*1} , E.A. Alyamkina ¹ , S.S. Bogachev ¹ , A.V. Prokopenko ² , ¹ Institute of Cytology and Genetics, Russia, ² Novosibirsk State University, Russia
[P012]	The structural basis of substrate recognition by mammalian polynucleotide kinase 3' phosphatase F. Garces ^{*1,3} , L.H. Pearl ² , A.W. Oliver ^{1,3} , ¹ The Institute of Cancer Research, UK, ² School of Life Sciences, University of Sussex, UK, ³ Genome Damage and Stability Centre, University of Sussex, UK
[P013]	Functional interaction of TopBP1 with PSF/p54(nrb) heterodimer A. Kuhnert ^{*1} , U. Schmidt ¹ , S. Monajembashi ² , B. Schlott ² , H.P. Saluz ^{1,3} , F. Hänel ¹ , ¹ Hans Knöll Institut Jena, Germany, ² Leibniz Institute for Age Research, Germany, ³ Friedrich Schiller University, Germany
[P014]	Probing the structure of poly(ADP-ribose) and its interaction with DNA repairing enzymes by modeling and simulation I. D'Annessa, A. Coletta, M. Falconi, A. Desideri*, <i>University of Rome Tor Vergata, Italy</i>
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