Table 1. Status of production of chemical standards and reference material (May 2013)

No.	Chemical	Status
Nucleotides for application in ^{32}P-postlabelling studies		
1	(±)-N^2-{10•-(7•,8•,9•-Trihydroxy-7,8,9,10-tetrahydrobenzo[*a*]pyrenyl)}-2′-deoxyguanosine-3′-monophosphate [(±)-anti-B[*a*]PDE-trans-N^2-dG-3′-monophosphate, mixture of diastereomers]	In preparation
2	(±)-N^6-{1•-(2•,3•,4•-Trihydroxy-1,2,3,4-tetrahydrobenzo[*c*]-phenanthrenyl)}-2′-deoxyadenosine-3′-monophosphate [(±)-anti-B[*c*]PhDE-trans-N^6-dA-3′-monophosphate, mixture of diastereomers]	In preparation
Nucleotides for characterisation of antibodies		
3	N^2-Ethyl-2′-deoxyguanosine-3′-monophosphate	In preparation
4	N^2-(2'-Deoxyguanosin-8-yl)-2-amino-1-methyl-6-phenylimidazo[4,5-*b*]pyridine(dG-C8-PhIP)-3′-monophosphate	In preparation
5	1,N^6-Etheno-2'-deoxyadenosine-3'-monophosphate	In preparation
Nucleosides for characterisation of antibodies		
6	1,N^6-Etheno-2'-deoxyadenosine	Completed. 5 mg available
7	O^6-Carboxymethyl-2′-deoxyguanosine (Ca^{2+} salt)	Completed. 5 mg available
8	5,6-Dihydroxy-5,6-dihydrothymine (thymine glycol or dTg)	Completed 5 mg available

Table 2. Status of production and characterisation of haptens and antibodies (May 2013)

Hapten	Hapten synthesised	Antibody raised	Antibody active against hapten	Antibody active against adduct-containing DNA
1,N^6-Etheno-2'-deoxyadenosine-5'-*O*-hemisuccinate	Yes	Yes	Yes (10/10 antibody clones showed a strong positive response)	No (10/10 antibody clones failed to show a positive response against ss or ds, modified DNA)

Hapten	Hapten synthesised	Antibody raised	Antibody active against hapten	Antibody active against adduct-containing DNA
N^2-Ethyl-2'-deoxyguanosine-5'-*O*-hemisuccinate	Yes	Yes	Yes (10/10 antibody clones showed a positive response)	No (9/10 antibody clones showed no activity. One clone (6E5E3) showed very weak activity and requires further assessment)
N^2-(2'-Deoxyguanosin-8-yl)-2-amino-1-methyl-6-phenylimidazo[4,5-*b*]pyridine(dG-C8-PhIP)-5'-*O*-hemisuccinate	In preparation			
5,6-Dihydroxy-5,6-dihydrothymine(thymine glycol or dTg)-5'-*O*-hemisuccinate*	In preparation			
8-oxo-7,8-dihydro-2'-deoxyguanosine-5'-*O*-hemisuccinate	Yes			
1-thyminebutanoic acid cyclobutane dimer	Yes	Yes	Yes (10/10 antibody clones showed a strong positive response)	No (10/10 antibody clones failed to show a positive response against modified ss or ds DNA. Free nucleobase thymine dimer, T<>T, failed to inhibit antibody binding to hapten)

* A good commercial antibody is available

Table 3.

Technique	Keywords (acronyms, alternative names, uses)
^{32}P-postlabelling	DNA adducts
Accelerator mass spectrometry	DNA adducts
Chromosomal microarray analysis	CMA Array-based comparative genomic hybridization

Technique	Keywords (acronyms, alternative names, uses)
	Copy number variation
Fluorescence in situ hybridization Multicolor fluorescence in-situ hybridization (mFISH) Multicolor banding fluorescence in-situ hybridization (mBAND) Fiber-FISH	FISH Chromosomal aberrations Copy number variation Locus mapping
Micronucleus test Cytokinesis-block micronucleus (CBMN) assay Human buccal micronucleus cytome assay (BMCyt)	MN Chromosomal damage
Comet assay_Alkaline	DNA damage DNA breaks Apurinic sites
Comet assay_fpg	DNA damage
Comet assay_DNA repair	DNA repair
Bisulfite DNA conversion-next generation sequencing	BS-seq DNA methylation
Chromatin immunoprecipitation sequencing	ChiP-Seq DNA sequencing Histone modification
ChIP-on-chip	DNA regulatory regions
Methyl-seq	DNA methylation profiling
DNase-seq	DNA regulatory regions DNase I hypersensitive sites
Next generation sequencing	NGS Massively parallel sequencing High through-put sequencing DNA sequencing Genotyping Single nucleotide mutations Small insertions and deletions Chromosomal rearrangements Copy number variation DNA methylation
Pyrosequencing	DNA sequencing
RNA-Seq	WTSS Whole Transcriptome Shotgun Sequencing Transcriptomics
Serial analysis of gene expression	SAGE Transcriptomics
Single Nucleotide Primer Extension	SNuPE DNA methylation
Fluorescence-activated cell sorting	FACS
Gas chromatography	GC

Technique	**Keywords (acronyms, alternative names, uses)**
Polymerase chain reaction	PCR Genotyping
Real time quantitative polymerase chain reaction	RT-qPCR Gene expression levels
Enyzyme-linked immunosorbent assay	ELISA Oxidatively damaged DNA products DNA adducts
Immunohistochemistry/immunocytochemistry	Tissue protein levels Intracellular protein location
Immuno-slot-blot	DNA adducts
Radioimmunoassay	RIA
Laser scanning microdissection	
Liquid chromatography	LC
Capillary electrophoresis	CE
High performance liquid chromatography	HPLC High pressure liquid chromatography
Ultraperformance liquid chromatography	uHPLC Ultra-high pressure liquid chromatography
Mass spectrometry	MS DNA adducts Metabolomics Metabonomics Protein adducts Proteomics
Electrospray ionisation	ESI MS
Selected reaction monitoring	SRM MS
Quadrupole-time of flight	qTof MS
Matrix-assisted laser desorption/ionization-time of flight	MALDI-Tof MS
Antibody microarray	Proteomics
DNA microarrray	Transcriptomics Genotyping
Protein microarray	Protein interactions Enzyme substrates
SNP microarray	Genotyping
MicroRNA microarray	MiRNA microarray
Confocal microscropy	
Fluorescence microscopy	
Light microscopy	

Technique	**Keywords (acronyms, alternative names, uses)**
Transmission electron microscopy	
Scanning electron microscopy	
Nuclear magnetic resonance spectroscopy	NMR Metabolomics Metabonomics

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27-Feb-2013	An ECVAG inter-laboratory validation study of the comet assay: inter-laboratory and intra-laboratory variations of DNA strand breaks and FPG-sensitive sites in human mononuclear cells.	Ersson, Clara; Møller, Peter; Forchhammer, Lykke; Loft, Steffen; Azqueta, Amaya; Godschalk, Roger W. L.; van Schooten, Frederik-Jan; Jones, George D. D.; Higgins, Jennifer A.; Cooke, Marcus S.; Mistry, Vilas; Karbaschi, Mahsa; Phillips, David H.; Sozeri, Osman; Routledge, Michael N.; Nelson-Smith, Kirsty; Riso, Patrizia; Porrini, Marisa; Matullo, Giuseppe; Allione, Alessandra; Stepnik, Maciej; Ferlinska, Magdalena; Teixeira, João Paulo; Costa, Solange; Corcuera, Laura-Ana; López de Cerain, Adela; Laffon, Blanca; Valdiglesias, Vanessa; Collins, Andrew R.; Möller, Lennart
Jan-2013	Validation of the nucleotide excision repair comet assay on cryopreserved PBMCs to measure inter-individual variation in DNA repair capacity.	Allione, Alessandra; Russo, Alessia; Ricceri, Fulvio; Vande Loock, Kim; Guarrera, Simonetta; Voglino, Floriana; Kirsch-Volders, Michelina; Matullo, Giuseppe
20-Dec-2012	The effects of hemodialysis treatment on the level of DNA strand breaks and oxidative DNA lesions measured by the comet assay.	Ersson, Clara; Odar-Cederlof, Ingegerd; Fehrman-Ekholm, Ingela; Möller, Lennart
15-Dec-2012	DNA and protein adducts in human tissues resulting from exposure to tobacco smoke.	Phillips, David H.; Venitt, Stan
23-Nov-2012	On the origins and development of the (32)P-postlabelling assay for carcinogen-DNA adducts.	Phillips, David H.
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1-Sep-2012	Detection of acetaldehyde derived N(2)-ethyl-2'-deoxyguanosine in human leukocyte DNA following alcohol consumption.	Singh, Rajinder; Gromadzinska, Jolanta; Mistry, Yogita; Cordell, Rebecca; Juren, Tina; Segerback, Dan; Farmer, Peter B.

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