

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

No.	Chemical	Status
<i>Nucleotides for application in ³²P-postlabelling studies</i>		
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
<i>Nucleotides for characterisation of antibodies</i>		
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
<i>Nucleosides for characterisation of antibodies</i>		
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
<i>N</i> ² -Ethyl-2'-deoxyguanosine-5'- <i>O</i> -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)
<i>N</i> ² -(2'-Deoxyguanosin-8-yl)-2-amino-1-methyl-6-phenylimidazo[4,5- <i>b</i>]pyridine(dG-C8-PhIP)-5'- <i>O</i> -hemisuccinate	In preparation			
5,6-Dihydroxy-5,6-dihydrothymine(thymine glycol or dTg)-5'- <i>O</i> -hemisuccinate*	In preparation			
8-oxo-7,8-dihydro-2'-deoxyguanosine-5'- <i>O</i> -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 cytochrome 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
Enzyme-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
Ultrapformance 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 microarray	Transcriptomics Genotyping
Protein microarray	Protein interactions Enzyme substrates
SNP microarray	Genotyping
MicroRNA microarray	MiRNA microarray
Confocal microscopy	
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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 Concentrations of resveratrol and derivatives in foods and estimation of dietary intake in a Spanish population. European Prospective Investigation into Cancer and Nutrition (EPIC)-Spain cohort. (Zamora-Ros, Raul et al)
 DNA adducts and cancer risk in prospective studies: a pooled analysis and a meta-analysis. (Veglia, Fabrizio et al)
 Guidelines to evaluate human observational studies for quantitative risk assessment. (Vlaanderen, Jelle et al)

Latest submissions

DNA-repair measurements by use of the modified comet assay: An inter-laboratory comparison within the European Comet Assay Validation Group (ECVAG).
 Godschalk, Roger W. L., Ersson, Clara, Riso, Patricia, Pormi, Maria, Langje, Sabine A. S., van Schooten, Frederik-Jan, Azqueta, Amaya, Collins, Andrew R. J., Jones, George D. D., Kiwki, Rachel W. L., Phillips, David H., Soren, Osmar, Allione, Alessandra, Mattullo, Giuseppe, Miller, Leinhardt, Forchhammer, Lykke, Loft, Steffen, Møller, Peter

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Issue Date	Title	Author(s)
2-Jul-2012	DNA-repair measurements by use of the modified comet assay: An inter-laboratory comparison within the European Comet Assay Validation Group (ECVAG).	Godschalk, Roger W. L.; Ersson, Clara; Riso, Patricia; Pormi, Maria; Langje, Sabine A. S.; van Schooten, Frederik-Jan; Azqueta, Amaya; Collins, Andrew R. J.; Jones, George D. D.; Kiwki, Rachel W. L.; Phillips, David H.; Soren, Osmar; Allione, Alessandra; Mattullo, Giuseppe; Miller, Leinhardt; Forchhammer, Lykke; Loft, Steffen; Møller, Peter
27-Feb-2012	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, Vileas; Karbassi, Mahsa; Phillips, David H.; Soren, Osmar; Roudotegbe, Michael N.; Nelson-Smith, Kirsty; Riso, Patricia; Pormi, Maria; Mattullo, Giuseppe; Allione, Alessandra; Stepanik, Maciej; Ferlinzka, Magdalena; Taveira, João Paulo; Costa, Solange; Conzatti, Laura; Amis, López de Cerain, Adela; Laffon, Blanca; Valdiglesias, Vanessa; Collins, Andrew R. J.; Møller, Leinhardt
Jan-2012	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, Micheline; Mattullo, 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; Odeh-Cederof, Ingegerd; Fehrman-Ekholm, Ingrid; Møller, Leinhardt
15-Dec-2012	DNA and protein adducts in human tissues resulting from exposure to tobacco smoke.	Phillips, David H.; Venitt, Stan
22-Nov-2012	On the origins and development of the 32P-postlabelling assay for carcinogen-DNA adducts.	Phillips, David H.
23-Nov-2012	Variation in PAH-related DNA adduct levels among non-smokers: The role of multiple genetic polymorphisms and nucleotide excision repair phenotype.	Ethamadi, Arashi; Islami, Farhad; Phillips, David H.; Godschalk, Roger; Golzar, Asieh; Kamangar, Farin; Malekshah, Akbar Fazel-Tabar; Pourshams, Akram; Elahi, Seerat; Ghojoghi, Farhad; Strickland, Paul T.; Taylor, Philip R.; Boffetta, Paolo; Abnet, Christian C.; Dawsey, Sanford M.; Malekzadeh, Reza; van Schooten, Frederik J.
Nov-2012	Quantification of ultraviolet radiation-induced DNA damage in the urine of Swedish adults and children following exposure to sunlight.	Lijendahl, Tore Sandberg; Kotova, Natalia; Segerback, Dan
3-Sep-2012	Exposure to benzo[a]pyrene of Hepatic Cytochrome P450 Reductase Null (HRN) and P450 Reductase Conditional Null (RCN) mice: Detection of benzo[a]pyrene diol epoxide-DNA adducts by immunohistochemistry and 32P-postlabelling.	Arit, Volker M.; Ponier, Miriam C.; Sykes, Sarah E.; John, Kaarthik; Moserova, Michaela; Stoborova, Marie; Wolf, C. Roland; Henderson, Colin J.; Phillips, David H.
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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