

### APPENDIX 3

Summary table of results from short-term tests

	DNA damage					Mutation					Chromosomal anomalies					Other						
	Prokaryotes	Fungi and plants	Insects	Mammalian cells ( <i>in vitro</i> )	Mammals ( <i>in vivo</i> )	Prokaryotes	Fungi and plants	Insects	Mammalian cells ( <i>in vitro</i> )	Mammals ( <i>in vivo</i> )	Humans ( <i>in vivo</i> )	Fungi and plants	Insects	Mammalian cells ( <i>in vitro</i> )	Mammals ( <i>in vivo</i> )	Humans ( <i>in vivo</i> )	Petite mutation	Dominant lethal (insect)	Cell transformation	Dominant lethal (mamm.)	Sperm anomalies	
Acrylonitrile				+		+								+	?	-			+			
Actinomycin D						-	+	+						+					+			
Adriamycin	+					+			+					+	+	+			+			
Aflatoxins	+			+		+	+	+	+					+	+				+			
Aldrin	-			-		-	-	-	-					?	-							
4-Aminobiphenyl				+		+	+															
Amitrole	-					-	+	-				+							+			
Anaesthetics, volatile						-	+	?				?										
<i>Halothane</i>																						
<i>Cyclopropane</i>						-																
<i>Methoxyflurane</i>						-																
<i>Isoflurane</i>						-																
<i>Nitrous oxide</i>						-	+	+														
<i>Enflurane</i>						-																
<i>Fluroxene</i>						+																
<i>Divinyl ether</i>						+																
<i>Diethyl ether</i>									-													
Analgesic mixtures containing phenacetin																						
<i>Phenacetin</i>						+		-						+	?							
Aniline	-			-		?	-	-	+													
Arsenic and certain arsenic compounds	+					-							+	+	?	+						
Asbestos						-								?								
Auramine (technical-grade)	+			+		?	+							+	-				+			
Azathioprine						+	+	+						?	+	-			+	?		+



	DNA damage				Mutation					Chromosomal anomalies				Other									
	Prokaryotes	Fungi and plants	Insects	Mammalian cells ( <i>in vitro</i> )	Mammals ( <i>in vivo</i> )	Prokaryotes	Fungi and plants	Insects	Mammalian cells ( <i>in vitro</i> )	Mammals ( <i>in vivo</i> )	Humans ( <i>in vivo</i> )	Fungi and plants	Insects	Mammalian cells ( <i>in vitro</i> )	Mammals ( <i>in vivo</i> )	Humans ( <i>in vivo</i> )	Petite mutation	Domin. lethal (insect)	Cell transformation	Domin. lethal (mamm.)	Sperm anomalies		
Cyclamates						-																	
Cyclophosphamide	+			+		+	+	+	+	+		+		+	+	+		-	+	+			
2,4-D and esters				?		-	?	?	+			?		?	?								
Dacarbazine						?		+	+														
Dapsone						-																	
DDT	-			-		-		-	-	-													
<i>ortho</i> -Dichlorobenzene						-	?																
<i>para</i> -Dichlorobenzene						-	?					+											
3,3'-Dichlorobenzidine	+			+		+													+				
Dichloromethane				-		+		+	-					-	-								
Dieldrin	-			-		-		-	?					?	?								
Diethyl sulphate	+			+		+	+	+	+	+					?							+	
3,3'-Dimethoxybenzidine ( <i>ortho</i> -Dianisidine)	-			+		+													+				
Dimethylcarbamoyl chloride	+	+		-		+	+	-	+			+		+	+	-			+				
Dimethyl sulphate	+			+	+	+	+	+	+			+		+									
1,4-Dioxane				-		-																	
Epichlorohydrin	+	+		+		+	+	+	+			+		+	+	?			+				+
Ethylene dibromide	+			+	+	+	+	+	+					+									
Ethylene oxide				+	+	+	+	+	+	+			+		+	+							
Ethylene thiourea	?	?		?	-	?	?	-	-			+		-	-	?			+				
5-Fluorouracil	-					-				?				?	+	?	+		+				
Formaldehyde (gas)	+	+		+		+	+	+						+	-				?		?		
Hexachlorocyclohexane	-			-		-		-				?		?	?								
Hydralazine	+			+	-	+								+	+								
Hydrazine	+	+		?		+	+		-			+		?	-							+	
Iron dextran complex						+	+																

Isonicotinic acid hydrazide	+	-	?	+	+		+			-	-		-
Lead and certain lead compounds	?			-	?				?	?	?	?	+ - -
Magenta	+	+	-				?						-
Melphalan	+			+			+	+	+	+	+	+	- ?
6-Mercaptopurine	+			+			+	+	+	+	+	+	+ +
Methotrexate	-			?	+		+			+	+	+	+ +
Methoxsalen with ultra-violet A therapy (PUVA)	+		+	+	+		+	+	+	+	?		+ +
Metronidazole	+			+	+	-				-	?	-	-
Mustard gas	+		+	+	+	+				+	+		+ +
1-Naphthylamine	+	+		+	+	-	+			+	-		- -
2-Naphthylamine	+	+		+	+	+	+			+	?		+ -
Nickel and certain nickel compounds	-			-			?			?	?	- -	+ - +
Nitrogen mustard	+	+		+	+	+	+			+	+	+	+ +
Oestrogens and progestins:													
<i>Combined oral contraceptives</i>													
<i>Conjugated oestrogens</i>				-						-			
<i>Oestrogens: Dienoestrol</i>				-						?			
<i>Diethylstilboestrol</i>			-	-	?		-			?	?	?	+ + +
<i>Ethinylloestradiol</i>				-		-	-			-		-	+ + +
<i>Mestranol</i>						-	-			-		-	+ + +
<i>Oestradiol-17β</i>						-	-			-		-	+ + +
<i>Oestrone</i>										+			+ + +
<i>Chlormadinone acetate</i>										-			+ + +
<i>Progestins: Dimethisterone</i>										-			+ + +
<i>Ethinodiol diacetate</i>										-	-		+ + +
<i>Lynoestrenol</i>										-	-		+ + +
<i>Medroxyprogesterone acetate</i>										-	-		+ + +
<i>Megestrol acetate</i>										-	-		+ + +
<i>Norethisterone</i>										-	-		+ + +
<i>Norethynodrel</i>				-			-	-		-	-		+ + +
<i>Progesterone</i>										?	+		+ + +
Pentachlorophenol				-	+	-				?	+		+ + +

	DNA damage					Mutation					Chromosomal anomalies					Other						
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Phenelzine	+					+																
Phenobarbital						-		?										-				
Phenylbutazone						-						-	?	-	?			-				
N-Phenyl-2-naphthylamine						-												-				
Phenytoin																						
Polychlorinated biphenyls						?		-														
Prednisone						-																
Procarbazine	+					+	+	+	+	+		+		+	+		+	+	+			
Reserpine	-					-																
Saccharin	-					-	+	-	?	?			?	-				-	?		-	
Soots, tars and oils and benzo[a]pyrene																						
Benzo[a]pyrene	+			+	+	+	+	+	+	+				+	+			+			+	
Styrene and styrene oxide																						
Styrene						+	?	+	-			+		+	?	+						
Styrene oxide						+	+	+	+			+		+	?				?			
Sulfamethoxazole																						
2,4,5-T and esters						-	?	+														
Tetrachlorodibenzo-para-dioxin (TCDD)						-	+								?	-						
Tetrachloroethylene						-	+															
ortho-Toluidine	+	+		+		?	?					+		+	-			+				
Treosulphan												+										
Trichloroethylene				?	?	?	+			?												
Tris(aziridiny)-para-benzoquinone (Triaziquone)	+					+	+	+	+			+	+	+	+						+	

