

Table 2.—*Partial list of chemicals known to produce mutations or chromosome aberrations in higher plants with literature citation.*

Chemical	Mutation	Chr. Aber.
Acridine (and derivatives)-----		12
<i>Alkaloids:</i>		
Colchicine-----	85	
Morphine-----		80
Scopolamine-----		80
<i>Amines, and related compounds:</i>		
Acetyleneimine-----		79
2-chlorotriethyl amine-----	57	
Ethyleneimine-----	22	
Hydrazine-----	43	
Hydroxyurea-----		49
Maleic hydrazide-----	29	16, 29
N-methylphenylnitrosoamine-----		48
Nitrosoamines-----	107	
Triethylene melamine-----		8
<i>Antibiotics, and related compounds:</i>		
Aminopterin-----	65	47
Streptonigrin-----		51
Nebularine (9- β -D-ribofuranosylpurine)-----	110	
Bromine-----		9
Ceepryn-----		96
2,2-dichlorovinyl dimethylphosphate (Vapona)-----		90
Diethyl sulfate-----	34, 57	
<i>Epoxides:</i>		
Diepoxybutane-----	21	
Ethylene oxide-----	34, 103, 110	95
Glycidol-----	19	
<i>Food additives:</i>		
Butylated hydroxy toluene-----		90
Butylated hydroxyanisole-----		90
Coumarin-----		11
Sucaryl-----		90
Hexachlorocyclohexane-----		58
Isopropylphenyl carbamate-----		18
<i>Mercury compounds:</i>		
Ethyl mercuric phosphate-----		87
Methyl mercuric hydroxide-----		83
Phenyl mercuric hydroxide-----	63	63, 83
<i>Mustards:</i>		
Sulfur mustard-----		14
Nitrogen mustard-----	37, 60	14, 78
<i>Nucleosides:</i>		
adenine arabinoside (arabinosyl-adenine)-----		52
adenine xyloside (xylosyl-adenine)-----		52
5-bromodeoxycytidine-----	38	
5-bromodeoxyuridine-----	38	
deoxyadenosine-----		47