

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

Chemical	Mutation	Chr. Aber.
<i>Nucleosides—Continued</i>		
cytosine arabinoside.....		47
5-fluorodeoxyuridine (FUdR).....		47, 106
1-methyl-3-nitro-1-nitroso-guanidine.....		44
N-methyl-N'-nitrosoguanidine.....	92	
<i>Pesticides: (See table III.)</i>		
β -propiolactone.....		96, 104
<i>Purines:</i>		
2-aminopurine.....	32, 53	
caffeine (1,3,7-trimethyl-xanthine).....		50
8-oxoxycaine.....		45, 51
1,3,7,9-tetramethyluric acid.....		51
<i>Sulfonic acids and derivatives:</i>		
methane sulfonate-bromoethyl.....	36	
n-butyl.....	57, 77	
chloroethyl.....	36	
ethyl.....	1, 2, 6, 84	
β -hydroxyethyl.....	28	
β -methoxyethyl.....	28	
methyl.....	57, 68	
isopropyl.....	57, 77	
n-propyl.....	20, 57	
β -methane sulfonyl oxybutane (Myleran).....	32, 36, 110	110
diethyl 1,3-propanedisulfonate.....	110	
o-sulfobenzoicimide (Saccharin).....		90
<i>Urethanes:</i>		
ethyl.....		80
N-nitroso-N-methyl.....		48

Table 3.—List of various pesticides (1,000 p.p.m., 12 hrs.) known to produce mutations in barley and relative efficiency of each to control and to 5,500 R of X rays (Wuu and Grant, 111)

Treatment	Relative efficiency	Treatment	Relative efficiency
Lorox.....	30	Botran.....	7
Simazine.....	24	Phosphamidon.....	7
ENT-50612.....	14	Alanap-3.....	4
Atrazine.....	10	Metepa.....	4
Monuron.....	10	Endrin.....	3
Embutox E.....	9		
Sevin.....	9	X rays.....	32
Banvel D.....	7	Control.....	1