

Background Frequencies for Sister Chromatid Exchanges

These data are not intended for direct comparisons, but rather to convey a sense of the variability in the literature.

The following abbreviations are used for culture media: EB—Eagle' basal; G--Gibco **1A**; **ii**—Ham's **F10**; MEM —Delbecco's minimal essential medium; T-TC **199**; and 1640.

Table E-1.—Background Frequencies for Sister Chromatid Exchanges

Reference	Number of subjects	Number of cells/subject	Culture medium	Bud R (g/ml)	SCE/cell
Carrano, et al., 1980	8	40-80	MEM	variable	7.59
Morgan and Crossen, 1977	50	20	H	10	7.9
Crossen, et al., 1977	20	20	G	10	6.37
Lambert, et al., 1978	14 smokers	>= 20	?	100	16.2
	29 nonsmokers	—			13.1
Husgafvel-Pursiainen, et al., 1980	43 smokers	30	T	5	9.6
	40 nonsmokers				8.1
Goh, 1981	22 old	30	?	3	9.07
	23 young				8.05
Butler and Sanger, 1981	19	> 15	EB	6	8.4
Butler, 1981	32	> 20		6	8.1-8.7
Burgdorf, et al., 1977	44	~ 15	T	30	5.8
Watanabe, et al., 1980	7	- 4 0	T	10	11.4
Mitelman, et al., 1980	18	20	?	?	8.7
Maki-Paakkanen, et al., 1981	12	30	?	5	9.8
Funes-Cravioto, et al.	15	20	T	7	13.5
	6				12.2
Hogstedt, et al., 1981	15	30	T	5	8.0
Garry, et al., 1979	12	20	MEM	4.5	5.98
Hansteen, et al., 1975	16	30	?	2	7.5
Kucerova, et al., 1979	8	50	?	?	9.41
Anderson, et al., 1981	6	30	1640	25	6.68
Kirkland, et al., 1981	14	varied	1640	150?	10.77
Bauchinger, et al., 1981	22	40	?	10	7.09
Waksvik, et al., 1981	10	30	?	5	6.5
Sorsa, et al., 1981	10	?	?	7	~8.0

SOURCE Office of Technology Assessment

Appendix E references

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