

TABLE 8. $3C$ NUCLEAR DNA CONTENT AND THE DURATION OF THE PERIOD AT FERTILIZATION AFTER PENETRATION UNTIL FUSION OF SPERM NUCLEI WITH FEMALE NUCLEI

species	$3C$ nuclear DNA content/pg	time between penetration of the embryo sac by male nuclei and their fusion with female nuclei
1. <i>Crepis capillaris</i>	3.8	sperm nuclei fuse at once with female nuclei after penetration
2. <i>Phaseolus vulgaris</i>	5.0	
3. <i>Lycopersicum esculentum</i>	7.7	
4. <i>Solanum</i> sp.	7.7	
5. <i>Pisum sativum</i>	11.7	
6. <i>Hordeum vulgare</i>	20.3	sperm nuclei fuse within 6 h of penetration
7. <i>Tradescantia paludosa</i>	54.0	sperm nuclei fuse soon after 24 h
8. <i>Lilium</i> sp.	100 to 140	sperm nuclei fuse 3 to 8 days after penetration.
9. <i>Fritillaria</i> sp.	200 to 300	

N.B. The times between penetration of the embryo sac by male nuclei and their fusion with female nuclei are given for species 1 to 5 and 7 to 9 by Vassileva-Dryanovska (1966 *a, b*) and for species 7 by Pope (1944).

Pope, M. N. 1944 Some notes on techniques in barley breeding. *J. Hered.* **35**, 99–111.

Vassileva-Dryanovska, O. A. 1966 *a* Fertilisation in *Tradescantia*. *Hereditas* **55**, 47–54.

Vassileva-Dryanovska, O. A. 1966 *b* The induction of haploid embryos and tetraploid endosperm nuclei with irradiated pollen in *Lilium*. *Hereditas* **55**, 160–165.