TABLE 1

List of chromosome sizes for some insect species

Order (Family)	Genus	No. species[a]	n[b]	Genome size (mb of DNA[c])	Chromosome size (mb/chromosome)	Reference[d]
Orthoptera (Crickets/Grasshoppers)						
(Gryllidae)	Gryllus	1	11	11,000	1,000	1
(Acrididae)	(6 genera)	9	9–12	5,629–15,278	469–1698	1, 2
(Eumastacidae)	Moraba	1	7	7,003	1,000	2
(Phasmatidae)	Bacillus	5	17–18	2,024–2,440	112–143	3
Diptera (Flies)						
(Sarcophagidae)	Sarcophaga	1	5	570	114	4
(Muscidae)	Musca	1	6	972	162	5
(Drosophilidae)	Drosphila	6	3–5	170–366	47–78	6
(Culicidae)	(4 genera)	31	3	219–1,737	73–580	7, 8, 5
(Dixidae)	Dixa	1	4	146	36.4	5
(Psychodidae)	Telmatoscopus	1	6	227	37.9	5
(Chironomidae)	Chironomus	1	4	187	47	9
(Cecidomiidae)	Mayetiola	1	4	93.5	23.4	10
Homoptera (True Bugs)						
(Aphididae)	Schizaphis	1	8	374	47	11
Coleoptera (Beetles)						
(Tenebrionidae)	(26 genera)	52	5–13	147–804	14.7–80	12, 14
(Dermestidae)	Dermestes	6	8	900–1,980	112–247	13
(Chrysomelidae)	(24 genera)	39	8–23	162–3,452	15.1–173	15
Lepidoptera (Butterflies/Moths)						
(Noctuidae)	Heliothis	1	31	408	13.2	16
(Bombycidae)	Bombyx	1	28	495	17.7	17
Hymenoptera (Bees/Ants/Wasps)						
(Pteromalidae)	Nasonia	1	5	312	62	18
(Megachilidae)	Megachile	1	16	283	17.7	19
(Braconidae)	Bracon	1	10	156	15.6	18
(Apidae)	Apis	2	16	178	11.1	19

[a] Number of species for which genome size was determined.

[b] n is the haploid chromosome number.

[c] Total haploid DNA content in megabases, assuming 1 bp = 642 D and 1 pg = 935 Mb.

[d] References for genome sizes are 1, SPARROW *et al.* 1972; 2, HEWITT 1979; 3, MARESCALCHI *et al.* 1990; 4, SAMOLS and SWIFT 1979; 5, JOST and MAMELI 1972; 6, LAIRD 1973; 7, RAO and RAI 1987; 8, BESANSKY and POWELL 1992; 9, WELLS *et al.* 1976; 10, SHUKLE and STUART 1994; 11, MA *et al.* 1992; 12, ALVAREZ-FUSTER *et al.* 1991; 13, REES *et al.* 1976; 14, JUAN and PETITPIERRE 1991; 15, PETITPIERRE *et al.* 1993; 16, TAYLOR *et al.* 1993; 17, GAGE 1974; 18, RASCH *et al.* 1977; 19, JORDAN and BROSEMER 1974.