

Table V. Miscellaneous Physiological Parameters of the Mouse, Rat, Rabbit, Monkey, Dog, and Human

	Mouse (0.02 kg)	Rat (0.25 kg)	Rabbit (2.5 kg)	Monkey (5 kg)	Dog (10 kg)	Human (70 kg)
Surface area (m ²) ^a	0.008	0.023	0.17	0.32	0.51	1.85
Mean life-span potential (yr) ^b	2.7	4.7	8.0	22	20	93
Total plasma protein (g/100 mL) ^c	6.2	6.7	5.7	8.8	9.0	7.4
Plasma albumin (g/100 mL) ^c	3.27	3.16	3.87	4.93	2.63	4.18
Plasma α -1-AGP (g/100 mL) ^c	1.25	1.81	0.13	0.24	0.37	0.18
Hematocrit (%)	45 ^d	46 ^e	36 ^f	41 ^g	42 ^h	44 ^e
Total ventilation (L/min)	0.025 ⁱ	0.12 ^j	0.80 ⁱ	1.67 ^j	1.50 ^j	7.98 ^j
Respiratory rate (min ⁻¹)	163 ⁱ	85 ^j	51 ⁱ	38 ^j	23 ^j	12 ^j
Heart rate (beats/min) ^k	624	362	213	192	96	65
Oxygen consumption (mL/hr/g body wt) ^k	1.59	0.84	0.48	0.43	0.34	0.20

^a W. R. Chappell. In D. D. Hemphill (ed.), *Trace Substances in Environmental Health, Vol. XIX*, University of Missouri, Columbia, 1985, pp. 326–337.

^b H. Boxenbaum. *J. Pharmacokin. Biopharm.* 10:201–227 (1982).

^c A. M. Guarino. *Cancer Chemother. Rep. Part 1* 57:125–140 (1973).

^d In E. C. Mibby and N. H. Altman (eds.), *Handbook of Laboratory Animal Science, Vol. III*, CRC Press, Boca Raton, FL, 1976, p. 429.

^e In D. Dittmer (ed.), *Blood and Other Body Fluids*, Federation of American Societies for Experimental Biology, Washington, DC, 1961.

^f In S. Weisbroth, R. Flatt, and A. Kraus (eds.), *The Biology of the Laboratory Rabbit*, Academic Press, New York, 1974, p. 68.

^g In G. Bourne (ed.), *The Rhesus Monkey*, Academic Press, New York, 1975, pp. 412–414.

^h G. W. Anderson. *Vet. Med.* 53:135 (1958).

ⁱ A. C. Guyton. *Am. J. Physiol.* 150:70–77 (1947).

^j In V. Fiserova-Bergerova and H. C. Hughes, *Modeling of Inhalation Exposure to Vapors*, CRC Press, Boca Raton, FL, 1983, pp. 97–106.

^k In P. Altman and D. Dittmer (eds.), *Biology Data Book, Vol. III*, Federation of American Societies for Experimental Biology, Washington, DC, 1972.