

Table 3.3.

RESTING AND SPIKE POTENTIALS.

Values given are judged to be representative of tissues in good condition; they are not always means or extremes but weighted selections from those reported. For additional values see *Handbook of Biological Data*, 1956, Table 280.

Preparation		Resting Potential (mv)	Spike Potential Peak (mv)	Overshoot Maximum (mv)	Spike Duration (msec)
A		B	C	D	E
Fibers					
1	<i>Loligo</i> , giant axon	60	120	60	0.75 (18°)
2	<i>Lumbricus</i> , median giant	70	100	30	1.0 (20°)
3	<i>Cambarus</i> , median giant	90	145	55	2 (18°)
4	<i>Periplaneta</i> , giant fibers	70	80-104	26	0.4 (26°)
5	<i>Carcinus</i> , 30 μ . leg axon	71-94	116-153	60	1.0 (21°)
6	<i>Rana</i> , sciatic nerve axon	60-80	100-130	50	1.0 (20°)
Cells					
7	<i>Aplysia</i> , visceral ganglion	40-60	80-120	60	10 (21°)
8	<i>Onchidium</i> , visceral ganglion	60-70	80-100	30	9 (21°)
9	<i>Cambarus</i> , stretch receptor	70-80	80-90	20	2.5 (21°)
10	<i>Sphaeroides</i> , supramedullary	50-80	80-110	40	3 (26°)
11	<i>Bufo</i> , dorsal root ganglion	50-80	80-125	57	2.8 (17°)
12	<i>Bufo</i> , spinal motoneuron	40-60	40-84	25	2 (17°)
13	<i>Oryctolagus</i> , sympathetic	65-82	75-103	25	4-7 (37°)
14	<i>Felis</i> , spinal motoneuron	55-80	80-110	40	1-1.5 (37°)

References

- (1) Weidmann (1951); Hodgkin and Huxley (1952); Grundfest et al. (1954); Hodgkin (1958).
 (2) Kao and Grundfest (1957; see Annelida).
 (3) Kao and Grundfest (1956); Watanabe (1958; see Arthropoda).
 (4) Yamasaki and Narahashi (1959).
 (5) Hodgkin (1951).
 (6) Tasaki (1959).
 (7) Tauc (1955).
 (8) Hagiwara and Saito (1959).
 (9) Eyzaguirre and Kuffler (1955).
 (10) Hagiwara and Saito (1957); Bennett et al. (1959).
 (11) Ito (1957).
 (12) Araki and Otani (1953, 1955).
 (13) Eccles, R. (1955).
 (14) Frank and Fuortes (1956, 1961); Coombs et al. (1959).

