

Table 1. Velocities of Axonal Transport in Pike Olfactory Nerve<sup>a</sup>

Substance	Anterograde (mm/day)		Retrograde (mm/day)	
	Perikaryal region <sup>h</sup> (olf. mucosa)	Nerve <sup>h</sup>	Nerve <sup>h</sup>	Synaptic region <sup>h</sup> (olf. bulb)
Tracer experiments (population velocities, $V_{max}$ )				
[ <sup>3</sup> H]-WGA <sup>b</sup>	No transport	No transport	No transport	26
HRP <sup>b</sup>	25	No transport	20-30	25
[ <sup>3</sup> H]Leucine <sup>c</sup>	150	36	46	n.d.
[ <sup>3</sup> H]- $\beta$ -Alanine <sup>d</sup>	150	n.d.	n.d.	n.d.
3-O-[ <sup>3</sup> H]-Methyl-D-glucose <sup>d</sup>	150	n.d.	n.d.	n.d.
Proteins labeled with [ <sup>3</sup> H]leucine <sup>e</sup>	150	No transport	No transport	n.d.
<i>N</i> -Succinimidyl[ <sup>3</sup> H]propionate <sup>f</sup>	? (Trace amounts)	No transport	No transport	27
Organelles (velocity of individual organelles, mean values)				
Kind of organelles				
Lysosome-like <sup>g</sup>	1.45 $\pm$ 0.5 $\mu$ m/sec (125 mm/day)		1.22 $\pm$ 0.5 $\mu$ m/sec (105 mm/day)	
Mitochondria <sup>g</sup>	0.65 $\pm$ 0.28 $\mu$ m/sec ( 56 mm/day)		1.15 $\pm$ 0.39 $\mu$ m/sec (100 mm/day)	

<sup>a</sup>n.d., not determined.

<sup>b</sup>Buchner *et al.* (1987).

<sup>c</sup>Schmid *et al.* (1983).

<sup>d</sup>Weiss (1982).

<sup>e</sup>Gross and Kreutzberg (1978).

<sup>f</sup>Buchner (1986).

<sup>g</sup>Buchner *et al.* (in preparation).

<sup>h</sup>Site of marker or precursor application.