

Table 18.10. Kinetic parameters in the large intestinal crypts of experimental animals

Reference	I_S (%)	I_M (%)	k_B (cells/1000 cells/h)	I_P	T_C (h)	t_S (h)	t_{G1} (h)	t_{G2} (h)	t_M (h)	T (h)	T_T (h)	Migration rate (cell positions h)
Mouse												
Lipkin and Quastler (1962) descending colon	19				16	4.5- 8.0		1.5 ¹				
Thrasher (1967) descending colon												
infant (10 d)	23.9			0.49	15	7.3		1.2 ¹		32		
young adult (30-70 d)	22.1			0.52	19	8.0		1.2 ¹		35		
adult (380-399 d)	20.0			0.47	19	8.0		1.2 ¹		39		
senescent (579-630 d)	15.8			0.43	21	7.7		1.2 ¹		49		
Kovacs and Potten (1973) descending colon	15.6			0.35- 0.52	23.2							
Chang and Nadler (1975) vacuolated												
columnar	8.8				23.2(20) ²	9.9	10.5	1.23	1.5	105-130	144	0.9
mucous	5.1				23.2(40) ²	9.8	10.5	1.42	1.5			
Sunter <i>et al.</i> (1979a) Colon												
descending	11.7	1.33	26.5	0.29	15.5(43) ²	6.2	7.0	1.8	0.5	121	0.92	
transverse	12.1	0.84	12.9	0.29	21.2(27) ²	8.8	10.3	1.4	0.65	200	0.44	
ascending	12.3	1.16	16.2	0.31	18.9(45) ²	7.4	9.4	1.4	0.72	101	0.36	
caecum	13.5	1.09	17.6	0.30	15.3(48) ²	6.8	6.7	1.2	0.62	144	0.43	
Tsubouchi (1981) descending colon	8.6									233		
Rat												
Tutton and Barkla (1976) colon												
descending												
transverse												
ascending												
caecum												
Rijke <i>et al.</i> (1979b) colon												
descending	6.5	1.0		0.42	50		7.6		2.9			
Sunter <i>et al.</i> (1979b) colon												
descending	7.1	0.35	6	0.34	58(52) ²	9.0	46	2.0	0.36		0.42	
transverse	7.2	0.30	7	0.30	42(28) ²	9.1	31	2.0	0.25		0.51	
ascending	7.3	0.37	7	0.23	35(54) ²	8.8	25	1.6	0.35		0.34	
caecum	10.9	0.31	12	0.30	25(26) ²	8.5	15	1.5	0.23		0.42	
Guinea pig												
Sawicki and Rowinski (1970, 1980) all crypts	14.1	3.2		0.48	25					53 ³	0.75	

¹ Really $t_{G2} + \frac{1}{2}t_M$. ² CV T_C . ³ Cell positions 10-39.