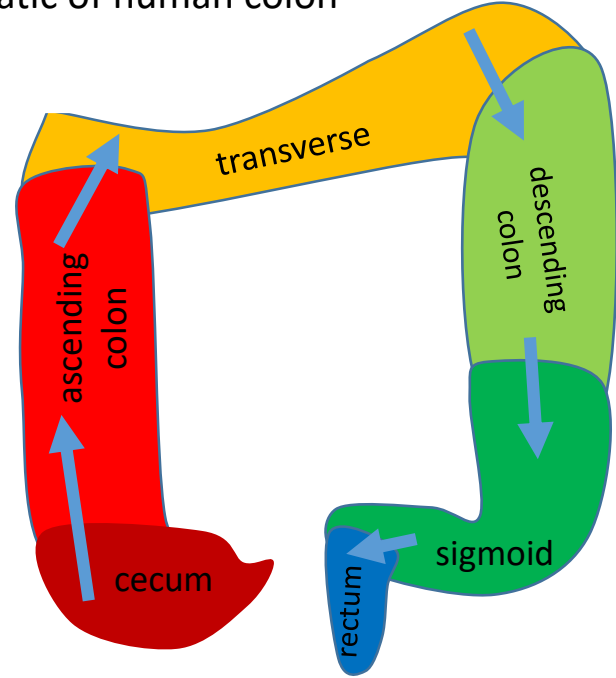
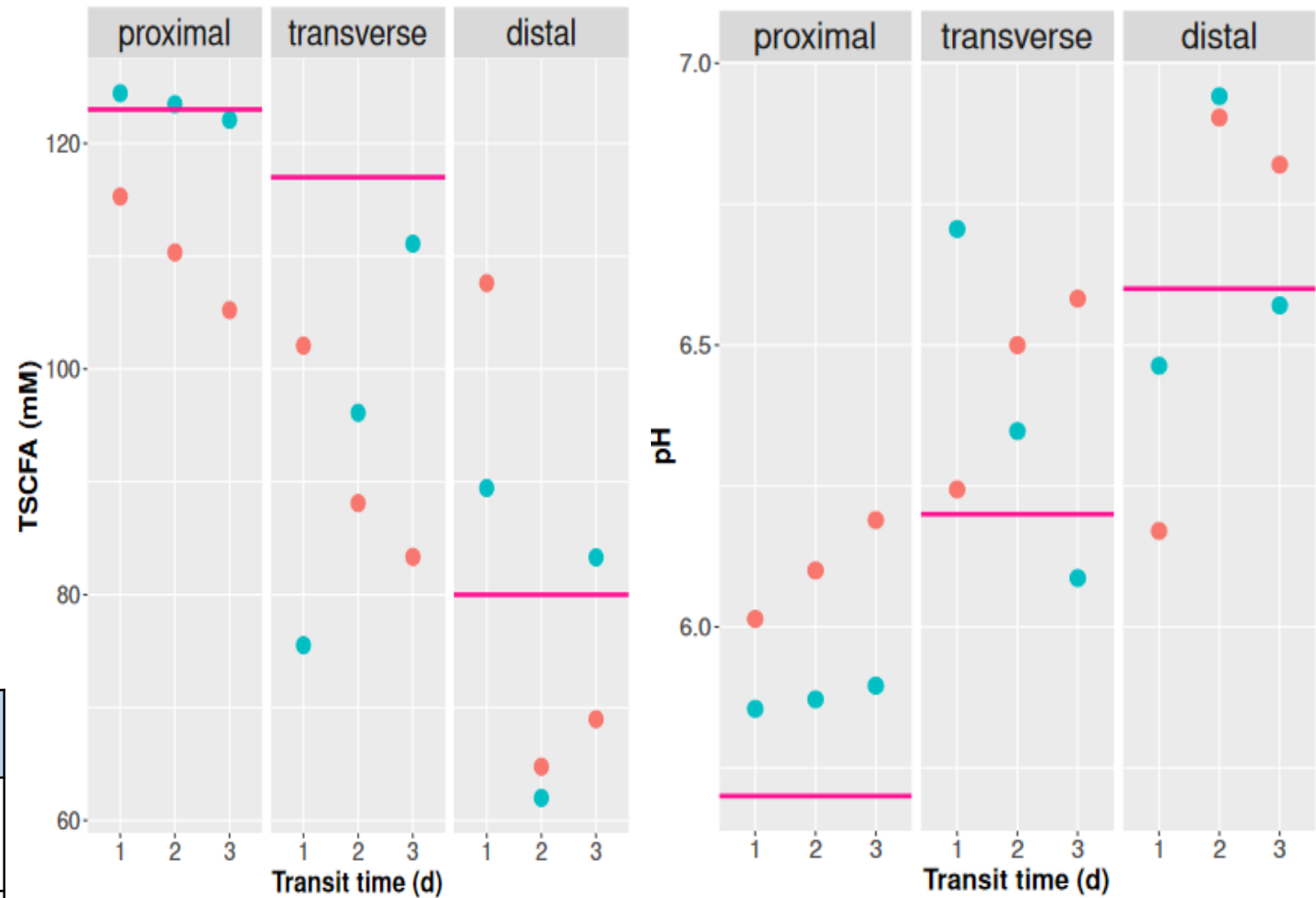


A. Schematic of human colon



B. Physical properties of colon (colour matched with schematic A)

	Model region	Len (cm)	Vol (L)	pH	TSCFA (mM)
Cecum	Prox	21	0.41	5.7	123
Ascending					
Transverse	Trans	50	0.98	6.2	117
Descending	Dist	60	1.63	6.6	80
Sigmoid					
rectum					



C. Comparison of model results for time-averaged TSCFA and pH with observed properties shown in Table B (pink lines). Red dots show results from continuous substrate inflow, blue dots show results from meals-inflow, averaged over 4 random seeds.