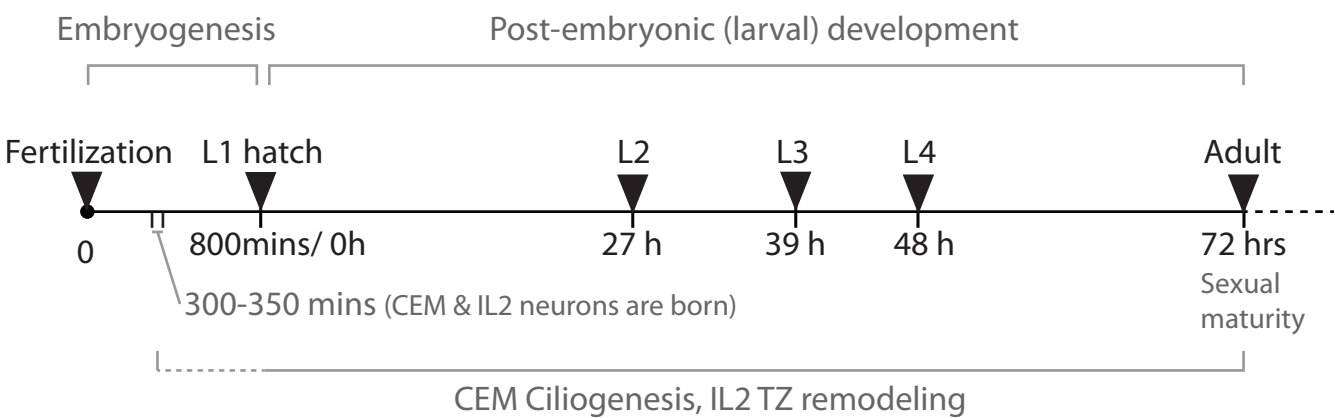
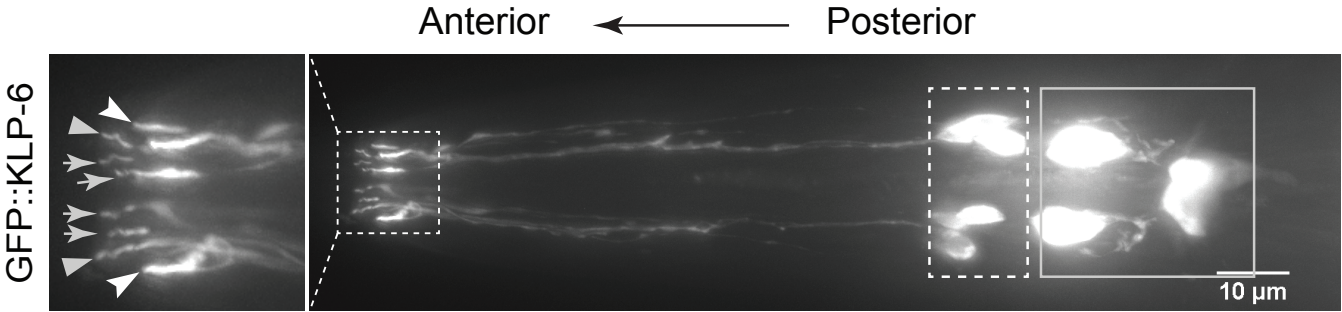


Figure S1

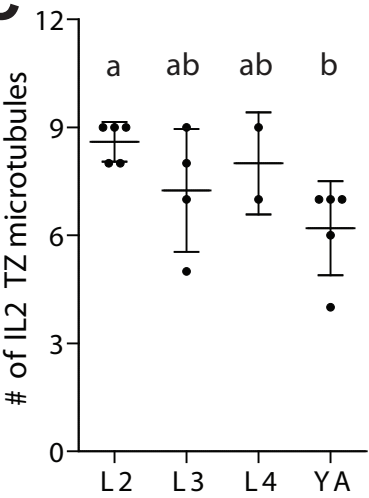
A



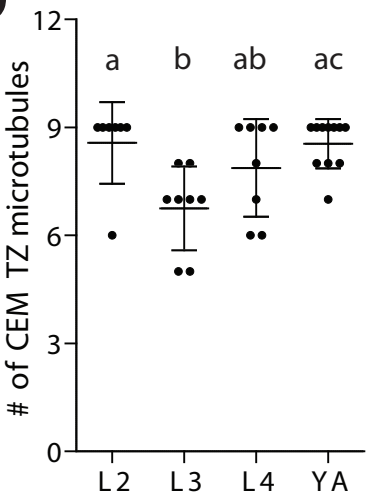
B



C



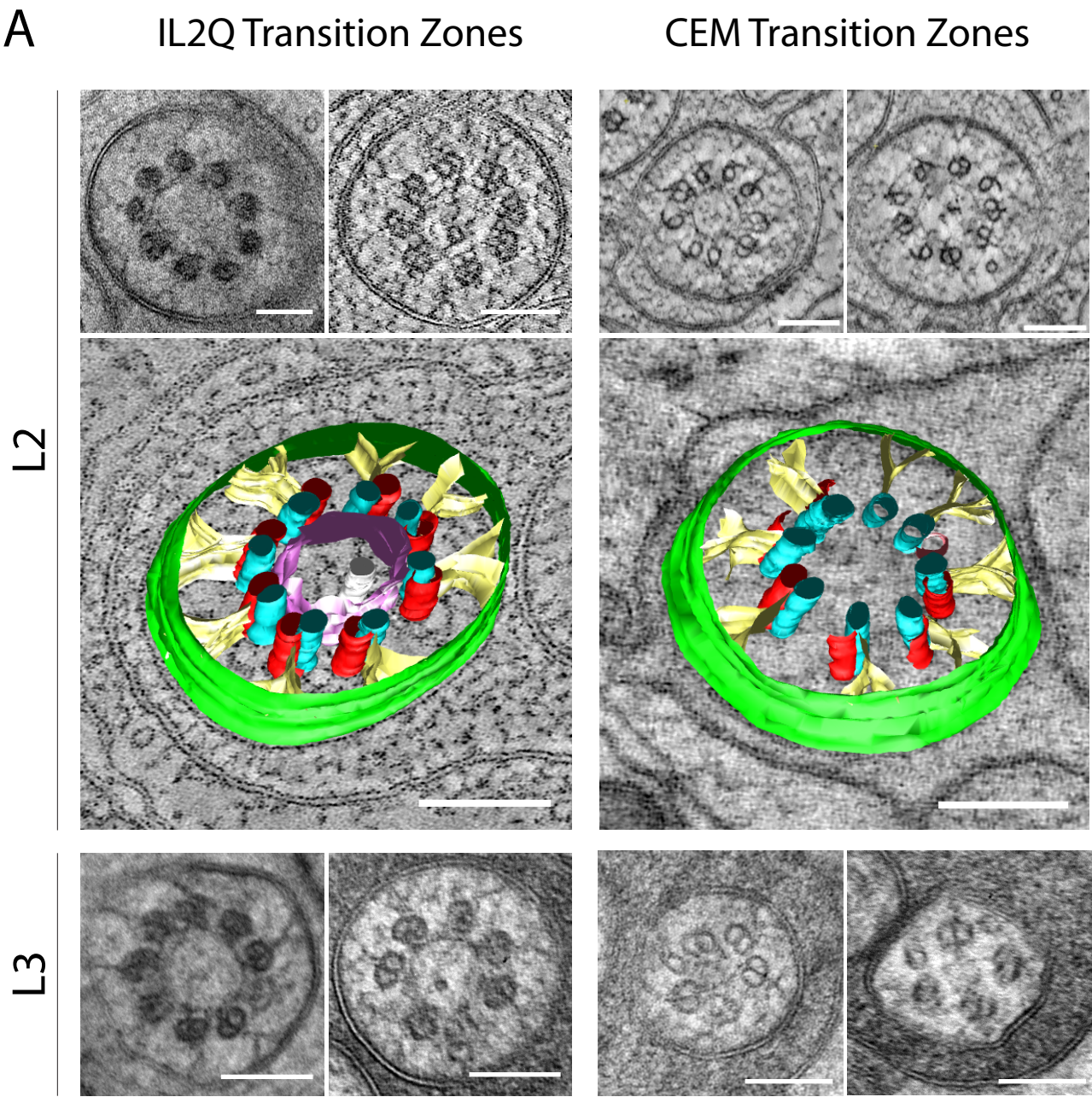
D



E



Figure S2



B Frequency of TZ MT phenotypes in developing IL2Q cilia

	Age	L2	L3	L4	YA
Phenotype	Hook-like appendages	20%	0%	50%	0%
	Singlets in TZ ring	20%	0%	0%	20%
	n	5	3	2	5
	N	2	2	1	2

CEM cilium

		Age	L2	L3	L4	YA
Number of Microtubules	dMTs	Mean	4.71	6.00	7.38	8.46
		SD	1.50	1.41	1.41	0.69
		Significance	a	a	ac	bc
		Kruskal-Wallis test with Dunn's correction $p = 0.0002$				
	sMTs	Mean	3.86	1.00	0.50	0.09
		SD	1.95	0.93	0.76	0.30
		Significance	a	ab	b	b
		Kruskal-Wallis test with Dunn's correction $p = 0.0002$				
	Total	Mean	8.57	6.75	7.88	8.55
		SD	1.13	1.17	1.36	0.69
		Significance	a	b	ab	ac
		Kruskal-Wallis test with Dunn's correction $p = 0.096$				
	n	7	8	8	11	
	N	3	3	5	3	
TZ length, nm						
	Mean	122.50	315.00	700.00	771.40	
	SD	67.02	40.41	235.70	135.00	
	Significance	a	ab	b	b	
	n	4	4	4	7	
	N	2	2	3	2	
Kruskal-Wallis test with Dunn's correction $p = 0.0025$						
Cilium length, nm						
	Mean	892.10	2250.00	2990.00	3511.00	
	SD	203.20	300.10	885.20	402.60	
	Significance	a	ab	b	b	
	n	4	4	7	7	
	N	2	2	3	3	
Kruskal-Wallis test with Dunn's correction $p = 0.0031$						

IL2Q cilium

		Age	L2	L3	L4	YA
Number of Microtubules	dMTs	Mean	8.00	7.00	7.50	6.00
		SD	1.23	2.00	0.71	1.23
		Significance	ns	ns	ns	ns
		Kruskal-Wallis test with Dunn's correction $p = 0.18$				
	sMTs	Mean	0.60	0.00	0.50	0.20
		SD	0.89	0.00	0.71	0.45
		Significance	ns	ns	ns	ns
		Kruskal-Wallis test with Dunn's correction $p = 0.55$				
	Total	Mean	8.60	7.25	8.00	6.20
		SD	0.55	1.71	1.41	1.30
		Significance	a	ab	ab	b
		Kruskal-Wallis test with Dunn's correction $p = 0.05$				
	n	5	3	2	5	
	N	2	2	1	2	
TZ length, nm		Mean	227.50			285.00
		SD	35.00			33.54
		Significance	yes			
		n	4			5
		N	2			2
	Mann-Whitney test $p = 0.026$					
Cilium length, nm		Mean	2590.00			1775.00
		SD	121.20			188.70
		Significance	no			
		n	3			3
		N	1			2
	Mann-Whitney test $p = 0.076$					

Supplemental Table 1. Data from Figures 1, 2, S1, S2, and Statistical analysis