

A

Family	Cluster in trees	Copepoda				Copep	Crust	Arthr	Ecdys	Lopho	Cepha	Chord	Ambul	Cnidar
		Calan	Cyclo	Harpa	Sipho									
P2X family	P2X	44	11	15	6	76	8	3	1	3	1	13	6	4
	ASIC	1				1	1			24	10	9	10	21
	BASIC										16	2	3	
	DEL10	1				1			1					
	DEL10_EGAS1-4			1		1	54		3	1	2			
	EGAS1-4	93	29	36	23	181	153	101	4					9
ASIC/Deg/ ENaC family	ENAC	35	20	40	11	106	61	32	2	6	14	8	34	7
	ENAC_ACD_DELM								8					
	ENAC_degt-1								3					
	ENAC_ACD_DELM_degt-1	45	26	20	3	94	25		1			1		
	FaNaC	4				4			7	25				
	MEC10								2					
	MEC4_MEC10_DEL1								9					
	PPK	385	281	162	68	896	15	34						
	AMPA	77	8	17	5	107	7	13		3	23	8	8	2
	AMPA_GLR1-2								2					
	AMPA_GluRIA	16	4	5	6	31	5	13						
iGluR family	Delta										29	4	3	
	Epsilon									7				9
	KAINATE	201	35	41	58	335	24	58	5	7	2	10	1	
	KAINATE_GLR-3								2					
	NMDA1	13	6	3	6	28	1	1	2	3	2	2	2	7
	NMDA2	32	12	9	16	69	9	8	3	7	5	7	3	
	NMDA3						2	3	1	7	2	4	2	
	iGluR*	2				2				20	12			
	IR8	35	16	22	18	91	3	3						
	IR25	43	8	7	8	66	4	9	2	2				
	IR25a-like_8a-like										3			
	IR*	28	7	2	20	57	298	26	18	28				
	IR21a	6			7	13	1	2						
	IR321_IR335	23	1	13	16	53	2							
	IR324_IR68a	27	3	5	9	44	21	1						
	IR334	68	6	32	7	113	4							
	IR336	80	30	55	25	190	36	48						
	IR337		6	5	16	27								
	IR40a						8	3						
	IR75a		1			1		7						
	IR76a_IR41a	1				1		4						
	IR76b	9	2	3		14	9	2						
	IR93a	40	3	6	10	59	6	6						

B

Family	Cluster in trees	Copepoda				Copep	Crust	Arthr	Ecdys	Lopho	Cepha	Chord	Ambul	Cnidar
		Calan	Cyclo	Harpa	Sipho									
Cys-loop family: Acetylcholine and 5HT receptor	5HTR_A-E												7	
	5HTR-like	12				12				104				
	AChR*	284	40	51	63	438	55	30	8	16	37		72	50
	AChR_alpha_1-6										7	15		
	AChR_alpha_1-like	19	4	6	9	38	4	5						
	AChR_alpha_2-like	10	3	7	6	26	6	6						
	AChR_alpha_7	113	24	27	30	194	12	12	13	3	1	4	2	
	AChR_alpha_9-10										89	4	1	
	AChR_beta_1-like	17	5	7	7	36	5	6	7	2				
	AChR_beta_2,4_delta_epsilon_gamma										11	13		
	AChR_beta_2-like	28	9	3	6	46	5	6						
	Anion-selective LnAChR B-I-F-K	7				7				18				
	Cation-selective LnAChR C									5				
	Cation-selective LnAChR D	15	5	4	5	29	3	4	1	11				
	Cation-selective LnAChR D-G	2				2				2				
	Cation-selective LnAChR E	3				3				5	3			
	Cation-selective LnAChR G	1				1					9			
	Cation-selective LnAChR H									3	10			
	Cation-selective LnAChR J										3			
	des-2_acr-23_deg-3_acr-5									13				
	PBO_5-6									19				
	unc-29_lev-1_acr-2-2									3				
	unc-29_lev-1_acr-2-3									1				
Cys-loop family: GABA and Glycine channel	Anionic_ACC/Monoamine-gated_channel									16				
	Anionic_glutamate	151	30	28	37	246	15	23	8					
	Cys_loop*						3	1		1				
	GABA	14	6	2	1	23					7			42
	GABA_alpha_gama	99	23	17	23	162	12	11	4	11	1	20		
	GABA_beta_theta	18	5	6	8	37	5	6	3	5	1	7	1	
	GABA_EXP_1								2					
	GABA_pi_delta										19	5		
	GABA_RDL	97	30	29	9	165	11	19	1					
	GABA_rho											6		
	GABA_UNC-49B													
	GlyR-like	10				10				22	10		43	
	GlyR_alpha										1	8		
	GlyR_beta										5	2		
	Histamine-gated chloride channel_alpha_1	195	39	62	53	349	40	38						6
	Igc-57_GRR	32	11	16	13	72	15	15	11					
	pH sensitive chloride channel 2	11		4		15	6	7			28			
	pH sensitive chloride channel 1	27	2	3	5	37	1	9	6					