

Tables with descriptive statistics of lifespan measurements

Abbreviations: M-W: Mann-Whitney; K-S: Kolmogorv-Smirnov

experiment	N	mean	median	min	max	lower quartile	upper quartile	10%	90%	dispersion	std.deviation	std.error	M-W	K-S
tauUP-Control males exp1	50	55,92	58	7	100	49	68,75	13,8	80,2	476,9730612	21,83971294	3,088601824	0.388561	0.271914
tauUP males exp1	50	54,82	56	6	80	54	62	40,1	69,6	241,742449	15,54806898	2,198829002		
tauUP males exp1	50	54,82	56	6	80	54	62	40,1	69,6	241,742449	15,54806898	2,198829002	0.242137	0.039195
tauUPmut males exp1	50	56,52	62,5	10	85	51,25	74	15,8	75	412,9893878	20,32214033	2,873984648		
tayUP-Control males exp2	100	57,02	60	14	96	49	72,5	18,7	78,3	446,5046465	21,13065656	2,113065656	0.015896	0.211170
tauUP males exp2	100	50,2	54,5	6	94	39,25	70	13,8	75	492,6060606	22,19473047	2,219473047		
tauUP males exp2	100	50,2	54,5	6	94	39,25	70	13,8	75	492,6060606	22,19473047	2,219473047	0.512425	0.368188
tauUPmut males exp2	100	49,38	52	8	85	36	60	21,9	77,1	352,8844444	18,78521878	1,878521878		
tauUP-Control females exp1	50	74,16	80,5	8	97	65,5	85,75	46,4	92,2	369,6473469	19,2262151	2,718997414	0.005675	0.021708
tauUP females exp1	50	64,94	70,5	10	91	59	79	22,7	84,2	440,7922449	20,99505287	2,969148851		
tauUP females exp1	50	64,94	70,5	10	91	59	79	22,7	84,2	440,7922449	20,99505287	2,969148851	0.320551	0.178587
tauUPmut females exp1	50	61,88	69	14	87	60,25	74,75	23,5	82	435,4955102	20,86852918	2,9512557		
tauUP-Control females exp2	100	73,48	77,5	18	105	67	86	52,9	90,1	313,7874747	17,71404738	1,771404738	0.000000	0.000000
tauUP females exp2	100	52,46	62	8	94	31,75	71,25	14	77	575,6246465	23,99217886	2,399217886		
tauUP females exp2	100	52,46	62	8	94	31,75	71,25	14	77	575,6246465	23,99217886	2,399217886	0.362538	0.154839
tauUPmut females exp2	100	56,62	62	9	87	49	71,25	19	76	406,8238384	20,16987453	2,016987453		

Table S1. Statistical analysis for the lifespan measurement in species with pan neuronal overexpression of *tau* transgenes.

experiment	N	mean	median	min	max	lower quartile	upper quartile	10%	90%	dispersion	std.deviation	std.error	M-W	K-S
tauUP_sggControl males exp1	100	47,82	52	6	78	40	59	23,3	62	265,8056566	16,30354736	1,630354736	0.000000	0.000000
tauUP_sggUP males exp1	100	1,76	1	1	7	1	2	1	3	1,295353535	1,138135992	0,113813599		
tauUP_sggUP males exp1	100	1,76	1	1	7	1	2	1	3	1,295353535	1,138135992	0,113813599	0.110500	0.583009
tauUPmut_sggUP males exp1	100	2,07	2	0	7	1	2	1	4	2,005151515	1,416033727	0,141603373		
tauUP_sggControl males exp2	100	41,3	43,5	5	88	24	55	14,8	67	396,0505051	19,90101769	1,990101769	0.000000	0.000000
tauUP_sggUP males exp2	100	3,27	3	1	7	2	5	1	6	2,845555556	1,686877457	0,168687746		
tauUP_sggUP males exp2	100	3,27	3	1	7	2	5	1	6	2,845555556	1,686877457	0,168687746	0.195715	0.815415
tauUPmut_sggUP males exp2	100	2,96	3	1	8	2	4	1	5	2,564040404	1,601262128	0,160126213		
tauUP_sggControl females exp1	100	55,23	61	8	84	46	68,5	22	76	376,0980808	19,39324833	1,939324833	0.000000	0.000000
tauUP_sggUP females exp1	100	3,96	2	1	33	1	4	1	6,1	39,69535354	6,300424869	0,630042487		
tauUP_sggUP females exp1	100	3,96	2	1	33	1	4	1	6,1	39,69535354	6,300424869	0,630042487	0.631596	0.908411
tauUPmut_sggUP females exp1	100	2,57	2	1	8	1	4	1	5	3,318282828	1,821615445	0,182161544		
tauUP_sggControl females exp2	100	61,49	68	13	89	60	76	16,9	78,1	459,0605051	21,42569731	2,142569731	0.000000	0.000000
tauUP_sggUP females exp2	100	2,92	2	1	12	2	4	1	5	3,508686869	1,873148918	0,187314892		
tauUP_sggUP females exp2	100	2,92	2	1	12	2	4	1	5	3,508686869	1,873148918	0,187314892	0.668639	0.999999
tauUPmut_sggUP females exp2	100	2,78	2	1	8	2	4	1	5	2,658181818	1,630393148	0,163039315		

Table S2. Statistical analysis for the lifespan measurement in species with simultaneous pan neuronal overexpression of *tau* and *shaggy* transgenes.

experiment	N	mean	median	min	max	lower quartile	upper quartile	10%	90%	dispersion	std.deviation	std.error	M-W	K-S
tauKD_Control males	100	62,49	60,5	26	96	56	74,25	46,7	80	196,8584848	14,03062667	1,403063	0.986348	0.053902
tauKD males	100	58,77	67,5	8	94	45,75	77	12,9	87	608,9667677	24,67725203	2,467725		
tauKD_Control females	100	75,12	84	13	98	70	90,25	37	93	454,5713131	21,32067806	2,132068	0.011968	0.000120
tauKD females	100	74,35	77	13	105	69,75	83	59	88,1	229,9469697	15,16400243	1,5164		

Table S3. Statistical analysis for the lifespan measurement in species with pan neuronal knockdown of *tau* gene.

experiment	N	mean	median	min	max	lower quartile	upper quartile	10%	90%	dispersion	std.deviation	std.error	M-W	K-S
tauKD_sggControl males exp1	50	60,96	63,5	15	100	48,25	80	21,9	87,1	600,5289796	24,5056928	3,465628	0.000000	0.000000
tauKD_sggUP males exp1	50	4,26	4,5	1	7	2	6	2	7	3,624897959	1,903916479	0,269254		
tauKD_sggControl males exp2	100	58,91	62,5	7	97	48,25	75	30,4	79	392,4261616	19,80974916	1,980975	0.000000	0.000000
tauKD_sggUP males exp2	100	2,68	2	1	12	1	3	1	5	3,694545455	1,922120042	0,192212		
tauKD_sggControl females exp1	50	75,26	74	20	99	64	87	62	92,3	218,4412245	14,77975725	2,090173	0.000000	0.000000
tauKD_sggUP females exp1	50	19,86	17,5	2	47	6,5	33,75	2,9	39,1	215,0616327	14,6649798	2,073941		
tauKD_sggControl females exp2	100	63,47	66	9	104	53,75	79	30,8	83	430,8778788	20,7575981	2,07576	0.000000	0.000000
tauKD_sggUP females exp2	100	17,7	16,5	2	65	7	25	4	36	158,2727273	12,58064892	1,258065		

Table S4. Statistical analysis for the lifespan measurement in species with simultaneous pan neuronal knockdown of *tau* gene and *shaggy* overexpression.