TABLES

Genotype	W ¹¹¹⁸ ;UAS-myr-tdTomato /+;UAS-GFP-α-tubulin84B, GMR31F10-Gal4/+			
Age (days)	5-10	19-23	29-31	38-42
	Axon diameter			
Number of values (axons)	145	143	104	241
Number specimens	10	14	11	29
Mean	0.7094	0.6716	0.4997	0.4878
Std. Deviation	0.1546	0.1	0.07939	0.1029
Std. Error of Mean	0.01284	0.008363	0.007785	0.00663
		Axon sw	ellings	
Number of values (µm of				
axon)	303	303	240	319
Number specimens	24	22	24	28
Mean	0.007629	0.01310	0.01397	0.02427
Std. Deviation	0.01474	0.02056	0.02106	0.02773
Std. Error of Mean	0.0008466	0.001181	0.001359	0.001552
		Termina	l area	
Number of values				
(terminals)	366	535	426	467
Number specimens	14	15	23	33
Mean	36.18	37.67	32.45	27.95
Std. Deviation	12.58	13.47	12.12	11.59
Std. Error of Mean	0.6575	0.5824	0.5874	0.5362
	Terminal morphology			
Number of values				
(terminals)	1238	826	1118	1696
Number of normal	826	814	1050	1501
Number of swollen+broken	32	12	68	195
Number specimens	14	15	23	31

Table A: Correspondent statistical details for Fig 1 "Axons and synaptic terminals within the *Drosophila* visual system deteriorate during ageing".

Age (days)	5	14	23	31
Genotype	W ¹¹¹⁸ ;UAS-G	FP-α-tubulin84B /+;L	IAS- RedStinger, GMI	R31F10-Gal4/+
	T1 neurons			
Number of values- specimens	12	5	10	11
Mean	140.8	230.2	200.6	241.0
Std. Deviation	39.38	40.55	41.04	38.26
Std. Error of Mean	11.37	18.14	12.98	11.54

 Table B: Correspondent statistical details for S2 Fig "Absence of neuronal death amongst T1 neurons during ageing".

Age (days)	3 days 18ºC + 4 days 29ºC	56 days 18ºC + 4 days 29ºC		
	W ¹¹¹⁸ ;tub-Gal80 ^{ts} / UAS-my-tdTomato;UAS-GFP-α-tubulin84B, GMR31F10-			
Genotype	Gal4/+			
	Axon dia	imeter		
Number of values (axons)	66	85		
Number specimens	5	8		
Mean	0.7732	0.5885		
Std. Deviation	0.1393	0.1052		
Std. Error of Mean	0.01714	0.01141		
	Axon swellings			
Number of values (µm of	123	98		
axon)				
Number specimens	5	8		
Mean	0.006378	0.01722		
Std. Deviation	0.01307	0.02129		
Std. Error of Mean	0.001178	0.002151		
	Terminal mo	orphology		
Number of values	300	485		
(terminals)				
Number of normal	298	371		
Number of swollen+broken	2	114		
Number specimens	5	8		

Table C: Correspondent statistical details for S3 Fig "The deterioration of T1 neurons during ageing is independent of temperature and marker expression".

Age (days)	5-10	19-24	29-31	38-42	
Genotype	W ¹¹¹⁸ ;UAS-myr-tdTomato;UAS-GFP-α-tubulin84B, GMR31F10-Gal4/+				
	MT unbundling				
Number of values (axonal					
bundle segment)	562	713	616	264	
Number specimens	22	23	17	17	
Mean	0.08007	0.1445	0.1851	0.3030	
Std. Deviation	0.3027	0.4404	0.4887	0.6034	
Std. Error of Mean	0.01277	0.01649	0.01969	0.03714	
	MT breaks				
Number of values (axonal					
bundle segment)	563	696	500	266	
Number specimens	22	23	17	17	
Mean	0.04263	0.1710	0.1420	0.5489	
Std. Deviation	0.2022	0.4562	0.4629	1.046	
Std. Error of Mean	0.008522	0.01729	0.02070	0.06413	
	Synaptic MTs				
Number of values					
(terminal)	297	458	333	252	
Number specimens	15	18	15	13	
Mean	10.25	7.175	5.186	3.988	

Std. Deviation	2.646	2.226	1.874	1.633	
	MT bundle diameter Airyscan				
Age (days)	8	-10	34	34-36	
Number of values (axons)		57	5	57	
Number specimens		14	1	.3	
Mean	0.7610		0.6	040	
Std. Deviation	0.1702		0.1433		
Std. Error of Mean	0.02254		0.01	0.01897	
	MT bundle diameter STED				
Age (days)	3			3	
Number of values (axons)		9	8	8	
Number specimens	3		3		
Mean	0.9265		0.5	552	
Std. Deviation	0.1785		0.1255		
Std. Error of Mean	0.05950		0.04438		

Table D: Correspondent statistical details for Fig 2 and S5 Fig "MT aberration precedes axonal and synaptic decay during ageing"

Age (days)	3 days 18ºC + 15 days 29ºC	56 days 18ºC + 15 days 29ºC		
	W ¹¹¹⁸ ;tub-Gal80 ^{ts} /UAS-myr-tdTomato;UAS-GFP-α-tubulin84B, GMR31F10-			
Genotype	Gal4/+			
	MT unbu	undling		
Number of values (axonal				
bundle segment)	108	132		
Number specimens	6	8		
Mean	0.04630	0.3636		
Std. Deviation	0.2515	0.6910		
Std. Error of Mean	0.02420	0.06014		
	MT breaks			
Number of values (axonal				
bundle segment)	108	132		
Number specimens	6	8		
Mean	0.009259	0.3864		
Std. Deviation	0.09623	0.9050		
Std. Error of Mean	0.009259	0.07877		
	Synapti	ic MTs		
Number of values				
(terminal)	108	132		
Number specimens	6	8		
Mean	7.350	3.994		
Std. Deviation	2.285	1.643		
Std. Error of Mean	0.1931	0.09044		

Table E: Correspondent statistical details for S6 Fig "MT alterations during ageing are independent of the MT reporter and are specific for aged specimens".

Age (days)	30-35				
Genotype	W ¹¹¹⁸ ;UAS-myr-tdTomato /+; UAS- GFP-α-tubulin84B, GMR31F10- Gal4/+	W ¹¹¹⁸ ;UAS-myr-tdTomato /Chico ¹ ; UAS-GFP-α-tubulin84B, GMR31F10- Gal4/+			
	Axon swellings				
Number of values (axonal	536	629			
bundle segment)					
Number specimens	28	28			
Mean	0.998	0.551			
Std. Deviation	1.880	1.278			
Std. Error of Mean	0.08119	0.05098			
	MT	breaks			
Number of values (axonal	563	629			
bundle segment)					
Number specimens	28	28			
Mean	0.998	0.630			
Std. Deviation	1.676	1.222			
Std. Error of Mean	0.070	0.048			
	MT unbundling				
Number of values (axonal	555	620			
bundle segment)					
Number specimens	28	28			
Mean	0.998	0.462			
Std. Deviation	4.255	3.315			
Std. Error of Mean	0.180	0.1331			
	Axon e	diameter			
Age (days)	3	0-35			
Number of values	128	170			
(segment)					
Number specimens	14	16			
Mean	1	1.2			
Std. Deviation	0.201	0.1918			
Std. Error of Mean	0.017	0.014			
	Synar	ptic MTs			
Age (days)	3	0-35			
Number of values	756	785			
(terminal)					
Number specimens	25	28			
Mean	4.438	6.413			
Std. Deviation	1.599	1.751			
Std. Error of Mean	0.05815	0.06250			

Table F: Correspondent statistical details for Fig 3 "A mutation in the insulin receptor substrate CHICO,known to increases lifespan, improves neuronal ageing hallmarks and MT decay".

	Ratio GFP/Tom			
Age (days)	3 days 18ºC + 4 days 29ºC	56 days 18ºC + 4 days 29ºC		
Genotype	W ¹¹¹⁸ ;tub-Gal80 ^{ts} / UAS-myr-tdTomato; UAS-GFP-α-tubulin84B, GMR31F10- Gal4/+			
Number of values (axons)	127	200		
Number specimens	5	7		
Mean	1.848	1.076		
Std. Deviation	0.4595	0.2338		
Std. Error of Mean	0.04078	0.01653		
	Ratio GFP/Tom			
Age (days)	3 days 18ºC + 15 days 29ºC	56 days 18ºC + 15 days 29ºC		
	W ¹¹¹⁸ ;tub-Gal80 ^{ts} / UAS-myr-tdTomato	; UAS-GFP-α-tubulin84B, GMR31F10-		
Genotype	Gal4/+			
Number of values (axons)	126	225		
Number specimens	6	8		
Mean	1.701	1.352		
Std. Deviation	0.5551	0.4969		
Std. Error of Mean	0.04946	0.03313		

Table G: Correspondent statistical details for Fig 4 "Decreased presence of tubulin-GFP at axonalmicrotubules in a pulse chase experiment suggests changes in MT turnover with age".

	EB1 in axons			
Age (days)	3-6 days	28-35 days		
Genotype	WT			
Number of values (medullas)	26	29		
Number specimens	15	17		
Mean	1.000	0.8534		
Std. Deviation	0.2688	0.3349		
Std. Error of Mean	0.05271	0.06219		
	Tau in a	xons		
Age (days)	5-7 days	33-35 days		
Genotype	Tau ^{wee}	³⁰⁴ /+		
Number of values (medullas)	46	41		
Number specimens	25	22		
Mean	29.21	13.10		
Std. Deviation	18.85	13.62		
Std. Error of Mean	2.779	2.127		
	Total EB1			
Age (days)	3-9 days	28-34 days		
Genotype	WT			
Number of values	6	6		

Mean	1.024	1.080		
Std. Deviation	0.1688	0.4631		
Std. Error of Mean	0.06890	0.1891		
	Total Tau			
Age (days)	6-9 days	30-35 days		
Genotype	W	r		
Number of values	10	11		
Mean	0.9664	0.6505		
Std. Deviation	0.1582	0.2655		
Std. Error of Mean	0.05002	0.08005		
	EB1-MT enrich	iment assay		
Age (days)	2-6 days	28-31 days		
Genotype	W	r		
Number of values	9	10		
Mean MT pellet	1.110	0.5600		
Std. Deviation	0.3633	0.2073		
Std. Error of Mean	0.1211	0.06556		
Mean supernatant	1.062	1.069		
Std. Deviation	0.1577	0.2732		
Std. Error of Mean	0.04988	0.08638		
	Tau-MT enrich	iment assay		
Age (days)	2-6 days	28-31 days		
Genotype	W	r		
Number of values	10	10		
Mean MT pellet	1.193	0.8550		
Std. Deviation	0.3165	0.2171		
Std. Error of Mean	0.1001	0.06866		
Mean supernatant	1.062	1.069		
Std. Deviation	0.1577	0.2732		
Std. Error of Mean	0.04988	0.08638		

 Table H: Correspondent statistical details for Fig 5 "The function of EB1 and Tau is altered during ageing".

Genotype	W ¹¹¹⁸ ;UAS-GFP- α-tubulin84B, GMR31F10- Gal4/+	W ¹¹¹⁸ ;UAS-GFP-α- tubulin84B, GMR31F10- Gal4/UAS- Tau^{RNI}	W ¹¹¹⁸ ;UAS-myr- tdTomato /+ ; UAS-GFP-α- tubulin84B, GMR31F10- Gal4/+	W ¹¹¹⁸ ;UAS-myr- tdTomato /UAS- Shot^{RNI} ; UAS-GFP- α-tubulin84B, GMR31F10-Gal4/+
Age (days)	30-37	30-37	30-33	30-33
	Axon swellings			
Number of values (axonal bundle segment)	511	502	310	295

Number specimens	19	17	14	12	
Mean	1.000	1.278	1 001	2 100	
Std Deviation	1 198	1 389	1.001	2.109	
Std. Error of Mean	0.05302	0.06198	0.08170	2.300	
	0.03302	MT ur	bundling	0.1494	
Number of values					
(axonal bundle segment)	511	502	310	289	
Number specimens	19	17	14	12	
Mean	1.000	3.885	0.9999	4.704	
Std. Deviation	5.597	12.42	2.810	8.794	
Std. Error of Mean	0.2476	0.5542	0.1596	0.5173	
		MT	breaks		
Number of values (axonal bundle segment)	511	502	311	289	
Number specimens	19	17	14	12	
Mean	1.000	1.421	0.9967	1.756	
Std. Deviation	3.280	3.686	2.720	3.848	
Std. Error of Mean	0.1451	0.1645	0.1543	0.2229	
Genotype	W ¹¹¹⁸ ;UAS- myristoylated- Tomato /+ ; UAS-GFP-α- tubulin84B, GMR31F10- Gal4/+	W ¹¹¹⁸ ;UAS- myristoylated- Tomato / UAS- Shot^{RNI} ; UAS- GFP-α- tubulin84B, GMR31F10- Gal4/UAS- Tau^{RNI}	W ¹¹¹⁸ ;UAS- myristoylated- Tomato /+ ; UAS-GFP-α- tubulin84B, GMR31F10- Gal4/+	W ¹¹¹⁸ ;UAS- myristoylated- Tomato /EB1 Df ; UAS-GFP-α- tubulin84B, GMR31F10-Gal4/ UAS-EB1 ^{RNI}	
Age (days)	28-32	28-32	25-28	25-28	
		Axon	swellings		
Number of values (axonal bundle segment)	340	446	464	457	
Number specimens	19	18	14	14	
Mean	1.000	3.366	1.000	2.907	
Std. Deviation	1.806	3.892	2.351	4.458	
Std. Error of Mean	0.09792	0.1843	0.1091	0.2085	
		MT unbundling			
Number of values (axonal bundle segment)	340	442	465	461	
Number specimens	19	18	14	14	
Mean	1.000	5.103	1.000	2.143	
Std. Deviation	3.237	8.556	3.639	6.860	
Std. Error of Mean	0.1756	0.4070	0.1687	0.3195	
	MT breaks				

Number of values (axonal bundle segment)	344	437	466	465
Number specimens	19	18	14	14
Mean	0.9999	3.173	1.000	2.795
Std. Deviation	3.013	6.000	3.267	5.571
Std. Error of Mean	0.1622	0.2870	0.1514	0.2583

Table I: Correspondent statistical details for Fig 6 "Knocking down of Eb1, Tau and Shot exacerbates agerelated MT decay and ageing hallmarks".

	W ¹¹¹⁸ ;UAS-myr-	W ¹¹¹⁸ ;UAS-myr-	W ¹¹¹⁸ ;UAS-myr-	W ¹¹¹⁸ ;UAS-myr-		
	tdTomato /+ ;	tdTomato / UAS-	tdTomato /+ ;	tdTomato /+; UAS-		
Genotype	UAS-GFP-α-	Shot ^{RNI} ; UAS-	UAS-GFP-α-	GFP-α-tubulin84B,		
	tubulin84B,	GFP-α-	tubulin84B,	GMR31F10-Gal4/		
	GMR31F10-	tubulin84B,	GMR31F10-	UAS-mcherry-EB1		
	Gal4/+	GMR31F10-	Gal4/+			
		Gal4/UAS -Tau^{RNI}				
Age (days)	28-32	28-32	25-28	25-28		
		Synapt	tic MTs			
Number of values	340	446	219	184		
(terminals)						
Number specimens	14	20	17	14		
Mean	5.703	2.574	4.909	6.658		
Std. Deviation	2.116	1.598	1.668	1.761		
Std. Error of Mean	0.1614	0.1027	0.1127	0.1298		
	Terminal Morphology					
Number of values	1143	1220	2006	1770		
(terminals)						
Number of normal	1028	663	1506	1623		
Number of	115	557				
swollen+broken			500	147		
Number specimens	14	20	17	14		
	W ¹¹¹⁸ ;UAS-myr-	W ¹¹¹⁸ ;UAS-myr-				
Genotype	tdTomato /+ ;	tdTomato / +;				
	UAS-GFP-α-	GMR31F10-Gal4/				
	tubulin84B,	UAS-Shot ^{EGC} -GFP				
	GMR31F10-					
	Gal4/+					
Age (days)	27-31	27-31				
	Syı	naptic MTs	I	I		
Number of values	194	146				
(terminals)						
Number specimens	15	13				
Mean	5.701	6.411				
Std. Deviation	2.057	2.237				
Std. Error of Mean	0.1477	0.1851				
Terminal Morphology						

Number of values	340	442	
(terminals)			
Number of normal	725	654	
Number of			
swollen+broken	188	78	
Number specimens	15	13	

Table J: Correspondent statistical details for S9 Fig "The deterioration of synaptic terminals during ageingcan be exacerbated or rescued by altering the function of MT regulators"

Genotype	W ¹¹¹⁸ ;UAS-GFP- α-tubulin84B, GMR31F10- Gal4/+	W ¹¹¹⁸ ;UAS-GFP-α- tubulin84B, GMR31F10- Gal4/UAS -Tau^{RNI}	W ¹¹¹⁸ ;UAS-myr- tdTomato /+ ; UAS-GFP-α- tubulin84B, GMR31F10- Gal4/+	W ¹¹¹⁸ ;UAS-myr- tdTomato /UAS- Shot^{RNI} ; UAS-GFP- α-tubulin84B, GMR31F10-Gal4/+	
Age (days)	3-8	3-8	5-7	5-7	
		Axon	swellings		
Number of values (axonal bundle segment)	567	598	73	311	
Number specimens	19	24	6	8	
Mean	1.000	1.102	0.9999	1.056	
Std. Deviation	1.766	2.280	1.948	2.154	
Std. Error of Mean	0.07417	0.09325	0.2280	0.1221	
	MT unbundling				
Number of values (axonal bundle segment)	478	598	73	319	
Number specimens	19	24	6	8	
Mean	1.000	0.1802	1.000	0.5035	
Std. Deviation	4.789	1.963	3.714	2.668	
Std. Error of Mean	0.2191	0.08029	0.4346	0.1494	
		MT	breaks		
Number of values (axonal bundle segment)	478	597	73	321	
Number specimens	19	24	6	8	
Mean	1.000	1.021	0.9999	0.6822	
Std. Deviation	2.054	2.118	4.863	4.023	
Std. Error of Mean	0.09393	0.08668	0.5692	0.2245	
Genotype	W ¹¹¹⁸ ;UAS- myristoylated- Tomato /+ ; UAS-GFP-α- tubulin84B	W ¹¹¹⁸ ;UAS- myristoylated- Tomato / UAS- Shot^{RNI} ; UAS- GFP-α- tubulin84B	W ¹¹¹⁸ ;UAS- myristoylated- Tomato /+ ; UAS-GFP-α- tubulin84B	W ¹¹¹⁸ ;UAS- myristoylated- Tomato /EB1 Df ; UAS-GFP-α- tubulin84B	

	GMR31F10- Gal4/+	GMR31F10- Gal4/UAS- Tau^{RNI}	GMR31F10- Gal4/+	GMR31F10-Gal4/ UAS-EB1^{RNI}
Age (days)	3-7	3-7	3-8	3-8
		Axon	swellings	
Number of values				
(axonal bundle	383	450	329	359
segment)				
Number specimens	17	18	13	17
Mean	0.9973	0.7563	1.000	0.7590
Std. Deviation	1.065	1.080	1.366	1.176
Std. Error of Mean	0.05449	0.05093	0.07533	0.06234
		MT ur	bundling	
Number of values				
(axonal bundle	382	450	329	357
segment)				
Number specimens	17	18	13	17
Mean	1.000	1.313	0.9999	0.4280
Std. Deviation	8.320	9.268	5.362	4.219
Std. Error of Mean	0.4257	0.4369	0.2956	0.2233
		MT	breaks	
Number of values				
(axonal bundle	382	450	329	356
segment)				
Number specimens	17	18	13	17
Mean	1.000	1.352	1.000	0.7732
Std. Deviation	8.504	10.80	2.071	1.837
Std. Error of Mean	0.4351	0.5093	0.1142	0.09734

Table K: Correspondent statistical details for S10 Fig "MT decay and ageing hallmarks are not present in young specimens with EB1, Tau and Shot knockdowns".

Genotype	W ¹¹¹⁸ ;UAS-myr- tdTomato /+ ; UAS-GFP-α- tubulin84B, GMR31F10- Gal4/+	W ¹¹¹⁸ ;UAS-myr- tdTomato /+; UAS-GFP-α- tubulin84B, GMR31F10-Gal4/ UAS-mcherry-EB1	W ¹¹¹⁸ ;UAS-myr- tdTomato /+ ; UAS-GFP-α- tubulin84B, GMR31F10- Gal4/+	W ¹¹¹⁸ ;UAS-myr- tdTomato / +; GMR31F10-Gal4/ UAS-Shot^{EGC}-GFP	
Age (days)	28-30	28-30	27-31	27-31	
		MT unb	oundling		
Number of values (axonal bundle segment)	377	308	382	303	
Number specimens	17	14	14	13	
Mean	0.9999	0.4584	1.000	0.03287	

Std. Error of Mean	0.1328 0.1104 0.1445		0.02321				
	MT breaks						
Number of values	371	302	238	241			
Number specimens	17	14	14	13			
Mean	0.9421	0.4247	0.9998	0.4481			
Std. Deviation	2.996	1.779	2.844	1.744			
Std. Error of Mean	0.1555	0.1024	0.1844	0.1123			
		Axon Sv	wellings				
Number of values							
(axonal bundle	375	301	381	303			
segment)							
Number specimens	17	14	14	13			
Mean	0.9999	0.6126	1.000	0.01488			
Std. Deviation	1.499	1.076	1.828	0.1829			
Std. Error of Mean	0.07742	0.07742 0.06201 0.09366		0.01051			
		MT bundle	e diameter				
Age (days)	25-28	25-28	29-30	29-30			
Number of values							
(axonal bundle	31	40	145	129			
segment)							
Number specimens	5	7	10	10			
Mean	1.000	1.261	1.000	1.377			
Std. Deviation	0.2152	0.3327	0.2281	0.2584			
Std. Error of Mean	0.03865	0.05261	0.01894	0.02275			
		Axon di	ameter				
Age (days)	35-38	35-38	27-31	27-31			
Number of values							
(axons)	291	165	207	242			
Number specimens	16	12	13	12			
Mean	1.000	1.137	1.000	1.468			
Std. Deviation	0.1673	0.1976	0.1789	0.2858			

Table L: Correspondent statistical details for Fig 7 "Expression of EB1 and Shot^{EGC} ameliorates axonal ageing phenotypes"

Genotype	W ¹¹¹⁸ ;tub- Gal80 ^{ts} / UAS-myr- tdTomato; UAS- GFP-α- tubulin84B, GMR31F10- Gal4/+	W ¹¹¹⁸ ;tub- Gal80 ^{ts} /UAS-myr- tdTomato;UAS- GFP-α- tubulin84B, GMR31F10-Gal4/ UAS-mcherry-EB1	W ¹¹¹⁸ ;tub- Gal80 ^{ts} / UAS-myr- tdTomato; UAS- GFP-α- tubulin84B, GMR31F10- Gal4/+	W ¹¹¹⁸ ;tub- Gal80 ^{ts} / UAS- myr-tdTomato; GMR31F10-Gal4/ UAS-Shot^{EGC}-GFP		
Age (days)	27-31	27-31	27-31	27-31		
	MT unbundling					

Number of values (axonal bundle segment)	721	449	721	697
Number specimens	34	24	26	23
Mean	1.000	0.7952	1.000	0.3564
Std. Deviation	4.104	3.441	4.104	2.440
Std. Error of Mean	0.1529	0.1624	0.1529	0.09242
		MT b	reaks	
Number of values				
(axonal bundle	721	449	721	697
segment)				
Number specimens	34	24	26	23
Mean	1.000	0.6500	1.000	0.2334
Std. Deviation	3.441	2.785	3.441	1.849
Std. Error of Mean	0.1282	0.1314	0.1282	0.07003
		Axon Sv	wellings	
Number of values				
(axonal bundle	721	449	721	697
segment)				
Number specimens	34	24	26	23
Mean	1.000	0.6801	1.000	0.2759
Std. Deviation	1.148	0.9823	1.148	0.6025
Std. Error of Mean	0.04274	0.04636	0.04274	0.02282

Table M: Correspondent statistical details for S14 Fig "Post-developmental expression of Shot^{EGC} but not of EB1 is sufficient to rescue all axonal ageing phenotypes".

Genotype	W ¹¹¹⁸ ;elav- GS/+	W ¹¹¹⁸ ; elav- GS/ UAS- Shot ^{EGC} -GFP	W ¹¹¹⁸ ; elav- GS/ UAS- EB1-GFP	W ¹¹¹⁸ ;elav- GS/+	W ¹¹¹⁸ ; elav- GS/ UAS- Shot ^{EGC} -GFP	W ¹¹¹⁸ ; elav- GS/UAS -EB1- GFP
		Fen	nales			
Age (days)		6-10			22-25	
	- RU486	- RU486	- RU486	- RU486	- RU486	- RU486
Number	189	104	55	137	60	54
specimens	+RU486	+RU486	+RU486	+RU486	+RU486	+RU486
	182	111	96	140	88	98
Mean	- RU486	- RU486	- RU486	- RU486	- RU486	- RU486
Weath	1	1	1	1	1	1
	+RU486	+RU486	+RU486	+RU486	+RU486	+RU486
	1.188	0.9881	1.164	1.137	1.609	1.253
	- RU486	- RU486	- RU486	- RU486	- RU486	- RU486
Std Doviation	0.6845	0.6197	0.598	0.8816	0.8452	0.7896
Stu. Deviation	+RU486	+RU486	+RU486	+RU486	+RU486	+RU486
	0.6559	0.5638	0.7889	1.087	0.8657	0.7036
	- RU486	- RU486	- RU486	- RU486	- RU486	- RU486
Std. Error of Mean	0.04979	0.06076	0.08073	0.07532	0.04979	0.1075
	+RU486	+RU486	+RU486	+RU486	+RU486	+RU486

	0.04862	0.05352	0.08052	0.1091	0.09228	0.04862			
Males									
Age (days)		6-10			22-25				
	- RU486	- RU486	- RU486	RU486	- RU486	- RU486			
Number	180	105	42	187	92	56			
specimens	+RU486	+RU486	+RU486	+RU486	+RU486	+RU486			
	185	85	90	180	89	109			
Mean	- RU486								
wican	1	1	1	1	1	1			
	+RU486	+RU486	+RU486	+RU486	+RU486	+RU486			
	0.9731	1.056	0.7269	0.8237	1.033	0.9327			
	- RU486								
Std Doviation	0.7819	0.6893	0.3029	0.7994	0.7166	0.3207			
Stu. Deviation	+RU486	+RU486	+RU486	+RU486	+RU486	+RU486			
	0.8123	0.7375	0.4873	0.7501	0.6547	0.3878			
	- RU486								
Ctd. Freen of Moon	0.05828	0.06727	0.04674	0.05846	0.07471	0.04285			
Stu. Error of Mean	+RU486	+RU486	+RU486	+RU486	+RU486	+RU486			
	0.05972	0.08000	0.05136	0.05591	0.06940	0.03714			

TableN: Correspondent statistical details for Fig 8 "Expression of Shot ^{EGC} and EB1 in adult *Drosophila* using the Geneswitch system improves locomotion of aged flies ".

	W ¹¹¹⁸ ;tub-	W ¹¹¹⁸ ;tub-	W ¹¹¹⁸ ;tub-	W ¹¹¹⁸ ;tub-	W ¹¹¹⁸ ;tub-	W ¹¹¹⁸ ;tub-
	Gal80 ^{ts} /+;	Gal80 ^{ts} /+;	Gal80 ^{ts} / +;	Gal80 ^{ts} /+;	Gal80 ^{ts} / +;	Gal80 ^{ts} /+;
Genotype	elav-	elav-	elav-	elav-Gal4/+	elav-	elav-
	Gal4/+	Gal4/ UAS-	Gal4/ UAS-		Gal4/ UAS-	Gal4/ UAS-
		mcherry-EB1	Shot ^{EGC} -GFP		mcherry-EB1	Shot ^{EGC} -GFP
Age (days)	4-5	4-5	4-5	25-26	25-26	25-26
Number	239	162	146	230	143	168
specimens						
Mean	15.00	10.02	14.71	1.004	0.9091	2.012
Std.						
Deviation	4.733	5.817	4.489	1.884	1.524	2.189
Std. Error						
of Mean	0.3061	0.4570	0.3715	0.1242	0.1274	0.1689

Table O: Correspondent statistical details for S15 Fig "The decline in locomotion of aged flies improves upon adult expression of Shot^{EGC}".

	Synaptic MTs	
	Ice anaesthesia	CO2 anaesthesia
Genotype	W ¹¹¹⁸ ;tub-Gal80 ^{ts} / UAS-myr-tdTomato; UAS-GFP-α-tubulin84B, GMR31F10- Gal4/+	
Number of values (axons)	250	224
Number specimens	15	13
Mean	1	0.907
Std. Deviation	0.3017	0.2944
Std. Error of Mean	0.01908	0.01967

Table P: Correspondent statistical details for S16 Fig "Comparison of the effect on T1 MTs of Ice/cold or CO2based anaesthesia treatments ".

	Gapdh/total protein	
Age (days)	4 to 9 days 29°C	29 to 32 days 29°C
Genotype	W ¹¹¹⁸	
Number of values (axons)	13	13
Mean	1.02	1.03
Std. Deviation	0.15	0.30
Std. Error of Mean	0.04	0.08
	Actin/total protein	
Age (days)	4 to 9 days 29°C	29 to 32 days 29°C
Genotype	W ¹¹¹⁸	
Number of values (axons)	9	9
Mean	0.941	0.7595
Std. Deviation	0.128	0.2912
Std. Error of Mean	0.042	0.09

Table Q: Correspondent statistical details for S17 Fig "The levels of loading control proteins Gapdh and Actin do not change during ageing ".