

**Control of Neuropeptide Expression by Parallel Activity-dependent Pathways
in *Caenorhabditis elegans***

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Figure S1.

(A) Table showing the BAG reporters tested for expression in the *gcy-9(n4470)* mutant. None of the reporters exhibited a detectable defect in BAG expression.

(B) The BAG neurons are generated in *tax-4(p678)* mutant animals. Representative micrograph showing the expression of the BAG reporter *rpls32(Pegl-13::GFP)* in a hermaphrodite worm mutant for *tax-4(p678)*. Both BAG neurons show wild type expression of the reporter. BAG positions are marked with red dashed circles. Anterior to the left. Scale bar = 20 μ m.

(C) Micrograph showing the expression of *flp-13::GFP* in the *crh-1(tz2); gcy-9(n4470)* double mutant. Expression of the reporter in is unaffected in the BAG neurons. BAG positions are marked with red dashed circles. Anterior to the left. Scale bar = 20 μ m.

Table S1.

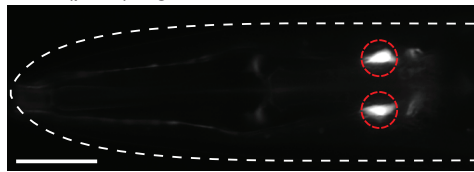
List of strains used in this study.

A

<i>gcy-9(n4470)</i>		
Transgene	Defective	n
<i>ynIs64[flp-17::GFP]</i>	NO	55
<i>ynIs37[flp-13::GFP]</i>	NO	54
<i>rplS29[gcy-31::mCherry]</i>	NO	69
<i>rplS7[gcy-33::GFP]</i>	NO	51
<i>rplS32[egl-13::GFP]</i>	NO	61

B

tax-4(p678); egl-13::GFP



C

crh-1(tz2); gcy-9(n4470); flp-13::GFP

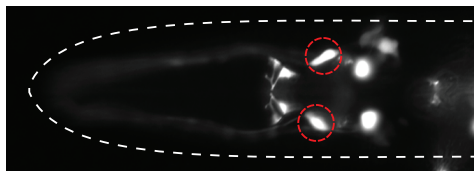


Figure S1

	Strain number	Genotype
Figure 1	RJP255	<i>ynIs34[flp-19::gfp]; him-5(e1490)</i>
	RJP1206	<i>che-3(e1379); ynIs34[flp-19::gfp]</i>
	RJP1143	<i>tub-1(ok1972); ynIs34[flp-19::gfp]</i>
	RJP1968	<i>rpEx811[flp-19::GFP]</i>
	RJP1969	<i>che-3(e1379); rpEx811[flp-19::GFP]</i>
Figure 2	RJP1254	<i>gcy-9(n4470); ynIs34[flp-19::gfp]</i>
	RJP1560	<i>gcy-9(tm2816); ynIs34[flp-19::gfp]</i>
	RJP1814	<i>gcy-9(n4470); ynIs34[flp-19::gfp]; rpEx765[gcy-331K::gcy-9cDNA + myo-3::RFP]</i>
	RJP1815	<i>gcy-9(n4470); ynIs34[flp-19::gfp]; rpEx766[gcy-331K::gcy-9cDNA + myo-3::RFP]</i>
	RJP2027	<i>gcy-9(n4470); ynIs34[flp-19::gfp]; rpEx837[gcy-331K::gcy-9cDNA + myo-3::RFP]</i>
	RJP1268	<i>gcy-31(ok296); ynIs34[flp-19::gfp]; him-5(e1490)</i>
	RJP1247	<i>gcy-33(ok232); ynIs34[flp-19::gfp]</i>
	RJP1459	<i>gcy-35(ok769); ynIs34[flp-19::gfp]; him-5(e1490)</i>
	RJP1260	<i>gcy-36(db42); ynIs34[flp-19::gfp]</i>
RJP3000	<i>gcy-35(ok769); gcy-33(ok232); gcy-36(db42) gcy-31(ok296); ynIs34[flp-19::gfp]</i>	
Figure 3	RJP3008	<i>pde-1(nj57); ynIs34[flp-19::gfp]</i>
	RJP3033	<i>pde-1(nj57); gcy-9(n4470); ynIs34[flp-19::gfp]</i>
	RJP1388	<i>tax-4(p678); ynIs34[flp-19::gfp]</i>
	RJP2021	<i>tax-4(p678); pde-1(nj57); ynIs34[flp-19::gfp]</i>
	RJP3226	<i>ynIs34[flp-19::gfp]; rpEx1563[gcy-33::egl-2(gf) + myo-3::rfp]</i>
Figure 4	RJP3293	<i>crh-1(n3315); ynIs34[flp-19::gfp]</i>
	RJP1365	<i>crh-1(tz2); ynIs34[flp-19::gfp]; him-5(e1490)</i>
	RJP3031	<i>kin-2(ce179); ynIs34[flp-19::gfp]</i>
	RJP3277	<i>crh-1(tz2); kin-2(e179); ynIs34[flp-19::gfp]</i>
	RJP3032	<i>crh-1(tz2); gcy-9(n4470); ynIs34[flp-19::gfp]</i>
Suppl Fig 1	RJP1387	<i>gcy-9(n4470); ynIs64[flp-17::GFP]</i>
	RJP1566	<i>gcy-9(n4470); ynIs37[flp-13::GFP]</i>
	RJP1567	<i>gcy-9(n4470); rpls29[gcy-31::mCherry; elt-2::gfp]</i>
	RJP1558	<i>gcy-9(n4470); rpls7[gcy-33::GCY-33::GFP]</i>
	RJP1534	<i>gcy-9(n4470); rpls32[egl-13::GFP]</i>
	RJP1574	<i>tax-4(p678); rpls32[egl-13::GFP]</i>
	RJP3123	<i>crh-1(tz2); gcy-9(n4470); ynIs37[flp-13::GFP]</i>
Table 1	RJP1792	<i>egl-3(nr2090); ynIs34[flp-19::gfp]</i>
	RJP1953	<i>unc-31(e169); ynIs34[flp-19::gfp]</i>
	RJP1453	<i>unc-13(e1091); ynIs34[flp-19::gfp]</i>
	RJP1580	<i>eat-4(ky5); ynIs34[flp-19::gfp]</i>
	RJP1796	<i>snb-1(md247); ynIs34[flp-19::gfp]; him-5(e1490)</i>
	RJP3273	<i>jun-1(gk557); ynIs34[flp-19::gfp]</i>
	RJP1967	<i>egl-4(n479); ynIs34[flp-19::gfp]</i>
	RJP1570	<i>cmk-1(ok287); ynIs34[flp-19::gfp]</i>
	RJP1556	<i>cck-1(ok1033); ynIs34[flp-19::gfp]; him-5(e1490)</i>
	RJP1370	<i>rgs-3(ok2288); ynIs34[flp-19::gfp]</i>

Table S1