

SUPPLEMENTARY TABLES

Supplementary Table 1. Relative expression of transgenes in control or *ahr-1* RNAi-treated reporter strains.

Strain name	Gene	Rel. expression (mean ± SD)	N	n	p-value
BC14926	cyp-14A3	anterior: 0.97 posterior: 1.05	38 (con) 35 (<i>ahr-1</i>)	3	0.544 0.333
SD1444	cyp-25A2	1.07 ± 0.16	38	2	0.067
BC20334	cyp-29A2	0.85 ± 0.60	42	2	0.377
cyp-35A2	cyp-35A2	anterior: 8.43 ± 11.96 posterior: 1.99 ± 2.14	43 (con) 42 (<i>ahr-1</i>)	3	< 0.001 0.005
cyp-35A3	cyp-35A3	1.08 ± 0.09	28 (con) 26 (<i>ahr-1</i>)	2	0.02
CY573	cyp-35B1	anterior: 2.60 ± 1.97 posterior: 2.90 ± 2.40	36 (con) 27 (<i>ahr-1</i>) 55 (con) 44 (<i>ahr-1</i>)	2 3	< 0.001 < 0.001
BC15044	cyp-37A1	0.66 ± 0.14	46 (con) 26 (<i>ahr-1</i>)	2	< 0.001
CL2166	gst-4	1.58 ± 0.37	27 (con) 29 (<i>ahr-1</i>)	2	< 0.001
ugt-29	ugt-29	0.96 ± 0.05	44 (con) 36 (<i>ahr-1</i>)	3	0.004

The relative expression was measured in worms on their first day of adulthood and normalized to control RNAi treated worms in each replicate. N shows the number of worms and n the number of experiments, Statistical test: 2-tailed unpaired t-test.

Supplementary Table 2. *C. elegans* strains used in this study.

Strain name	Genotype	Strain name	Genotype
BC14926	<i>dpy-5(e907); sEx14926[rCes K09A11.4::GFP + pCeh361]</i>	NV35a *	<i>ahr-1(ju145); (pAF15)gst-4p::GFP::NLS</i>
BC15044	<i>dpy-5(e907); sEx15044[rCes F01D5.9::GFP + pCeh361]</i>	NV35wt *	<i>pAF15)gst-4p::GFP::NLS</i>
BC20306	<i>cyp-34A9p::GFP</i>	NV38b *	<i>ahr-1(ju145); unc-54p::Q40::YFP</i>
BC20334	<i>cyp-29A2p::GFP</i>	NV38wt *	<i>unc-54p::Q40::YFP</i>
CL2166	<i>pAF15)gst-4p::GFP::NLS</i>	NV41a *	<i>unc-119p::Aβ 1-42; Pmyo-2::YFP; ahr-1(ju145)</i>
CY573	<i>cyp-35B1p::GFP + gcy-7p::GFP</i>	NV41wt *	<i>unc-119p::Aβ 1-42; Pmyo-2::YFP</i>
cyp35A2	<i>cyp-35A2p::GFP</i>	NV42a *	<i>unc-54p::alphasynuclein::YFP, ahr-1(ju145)</i>
cyp35A3	<i>cyp-35A3p::GFP</i>	NV42wt *	<i>unc-54p::alphasynuclein::YFP</i>
cyp35A5	<i>cyp-35A5p::GFP</i>	NV47a *	<i>ugt-29p::GFP; ahr-1(ju145)</i>
cyp33E2	<i>cyp-33E2p::GFP</i>	NV47wt *	<i>ugt-29p::GFP</i>
CZ2485	<i>ahr-1(ju145)</i>	SD1444	<i>unc-119(ed3); galIs237 [cyp-25A2p::his-24::mCherry + unc-119(+)]</i>
N2	<i>wild-type</i>	TU3311	<i>uls60[unc119p::YFP; unc119p::sid-1]</i>
NL2098	<i>rrf-1(pk1417)</i>	TU3401	<i>sid-1(pk3321); uls69[myo-2p::mCherry + unc-119p::sid-1]</i>
NL2550	<i>ppw-1(pk2505)</i>	ugt-29	<i>ugt-29p::GFP</i>
NR222	<i>rde-1(ne219); kzIs9[lin-26p::nls::GFP + lin-26p::rde-1 + rol-6(su1006)]</i>	VP303	<i>rde-1(ne300); neIs9 [myo-3::HA::RDE-1 + rol-6(su1006)]</i>
NV33a	<i>cyp-35B1p::GFP + gcy-7p::GFP; ahr-1(ju145)</i>	WM118	<i>rde-1(ne219); kbls7 [nhx-2p::rde-1 + rol-6(su1006)]</i>
NV33wt	<i>cyp-35B1p::GFP + gcy-7p::GFP</i>	ZG24	<i>ahr-1(ia03)</i>

Strains are sorted alphabetically.

* these strains were constructed using classical breeding techniques.

Supplementary Table 3. Primer pairs used in this study to validate genes differentially expressed between *ahr-1(ju145)* and wild-type (Supplementary Figure 3).

Gene		Sequence (5' – 3')	Annealing temp. (°C)	Efficiency (%)
clec-209	F	TGCTCGGGGAACAACCAAAA	60	88.4
	R	TTGGCTACGAACGATTGATGC		
C01B4.6	F	TGGCGATGCGAAAATTGATGTAA	61	83.9
	R	ATCTCCAGAAAGTGCTCGGC		
F56A4.3	F	ACGAGGGGAATGAATGGCAA	67	101.4
	R	CCATAGGGACCAATATCCATGAACT		
C01B4.7	F	GTTTTGGAATCAGACGCGGG	67	106.6
	R	CAGTGGGGTTCCGTCAAGTT		
atf-2	F	CGAAGGAACAATGAAGCCGC	67	98.1
	R	CCAAGAGCTGAACTCGTCGT		
K04H4.2	F	ACGCCGGAATCTGTTGTTCT	67	95.3
	R	CGTTCATTTGGAAAGGAGGCAT		
egl-46	F	CACCTCAACCGCTTTTCCAAG	67	85.1
	R	ATTTACATCCGCCTCCTCC		
T20F5.4	F	TCATCTACCGAGCAGCCAAC	61	94.5
	R	GAGATGCTCGGTCTCACTGC		
ptr-4	F	TCCTACCAGACGCGCAATC	66	79.5
	R	GCAACCCATACTGACGGAGT		
dyf-7	F	GTCTGCGTTTCCGTCACAAG	66	124.8
	R	CGGGGAAGCAACAAGTTCTG		
cdc-42	F	ATTACGCCGTACAGTAATG	62	100.8
	R	ATCCCTGAGATCGACTTGAG	58	107.2
act-1	F	GCTCTTGCCCCATCAACCAT	60	99.7
	R	CACTTGCGGTGAACGATGGA	58	98.1