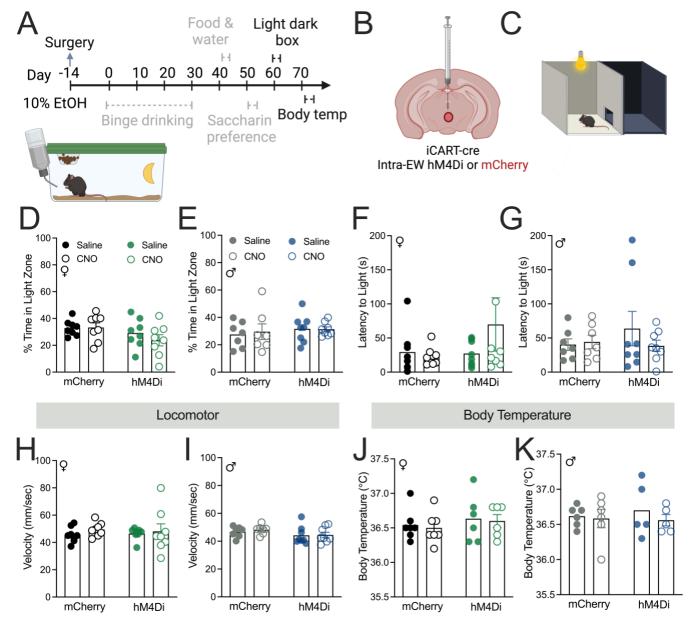
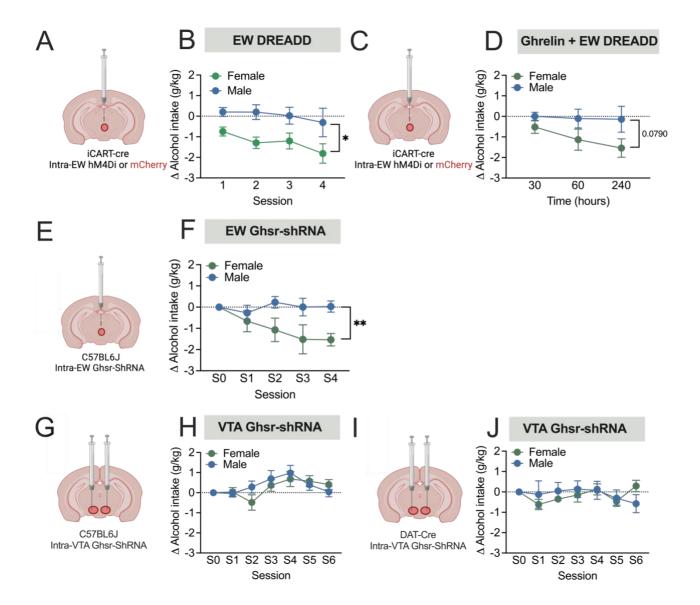


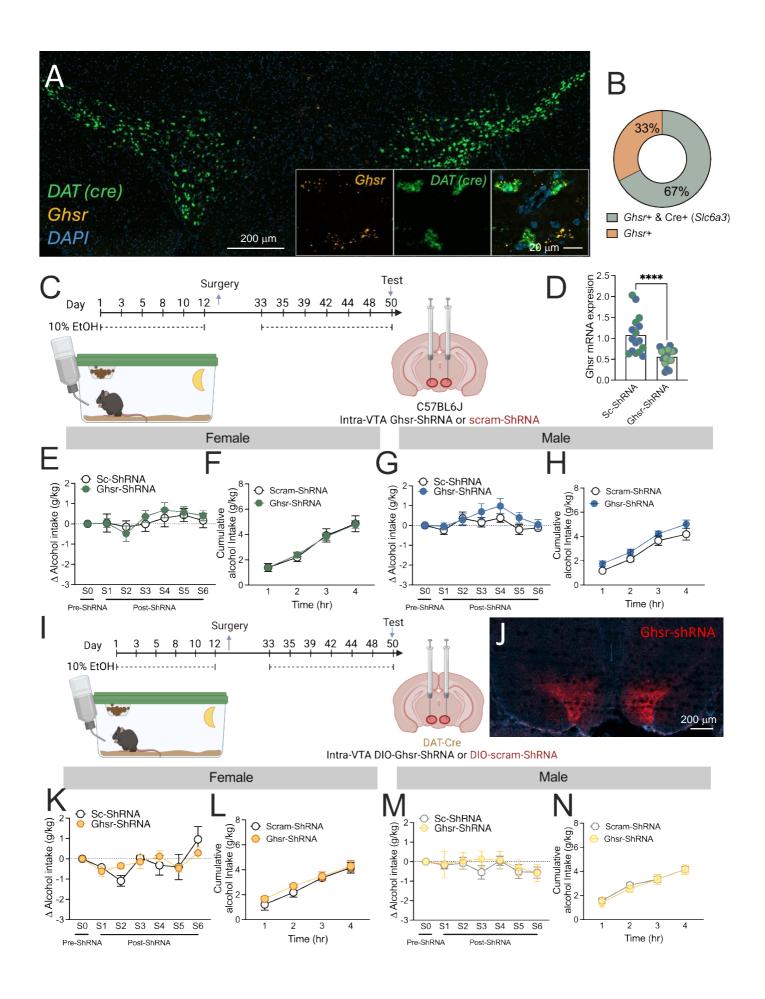
Supplementary Figure 1, related to Figure 1: Chemogenetic inhibition of EW^{CART} cells does not alter weight, water, food or saccharin intake. (A) Schematic of experimental outline and (B) viral strategy. RM two-way ANOVA showed no difference in weight of (C) female (virus F (1, 15) = 0.8869, p=0.3612; or interaction F (6, 90) = 0.2192, p=0.9697; but a main effect of time F (6, 90) = 24.09, p<0.0001; n=8/group), or **(D)** male mice (virus F (1, 13) = 0.04279, p=0.8393; or Interaction F (6, 78) = 1.094, p=0.3736; but a main effect of time (F (6, 78) = 26.51, p<0.0001; n=7 mCherry, 8 hM4Di) between hM4Di and control virus treated mice. Further during training no difference in alcohol consumption was observed in (E) female (RM two-way ANOVA, virus F (1, 15) = 0.1544, p=0.6999; interaction F (9, 135) = 0.1727, p=0.9965; or time F (9, 135) = 1.303, p=0.2407; n=8/group) or **(F)** male mice (RM two-way ANOVA, virus F (1, 13) = 0.01091, p=0.9184; or F (9, 117) = 1.211, p=0.2947; but a main effect of time F (9, 117) = 6.673, p<0.0001; n=7 mCherry, 8 hM4Di). (G) Schematic of binge drinking. (H) Female mice showed a specific reduction in Kcal intake from alcohol (RM two-way ANOVA, no effect virus F (1, 14) = 0.01532, p=0.9033; main effect CNO F (1, 14) = 26.96, p=0.0001; and interaction F (1, 14) = 6.018, p=0.0279; n=8/group). Bonferroni post-hoc between saline and CNO treated mice showed this was specific to hM4Di mice (p=0.0002), not mCherry (p=0.1464). (I) Further no differences in food intake with alcohol (RM two-way ANOVA, no effect virus F (1, 14) = 0.03906, p=0.8462; CNO F (1, 14) = 0.4057, p=0.5345; or interaction F (1, 14) = 0.2224, p=0.6445; n=8/group) were observed in female mice. (J) No difference in Kcal intake from alcohol in male mice (RM two-way ANOVA, no effect virus, F(1, 13) = 0.06261, p=0.8063; CNO F(1, 13) = 2.530, p=0.1357; or interaction F(1, 13) = 0.0005652, p=0.9814; n=7 mCherry, 8 hM4Di), or **(K)** food intake with alcohol (RM two-way ANOVA, virus F (1, 13) = 0.04826, p=0.8295; CNO F (1, 13) = 0.03520, p=0.8541; or interaction F (1, 13) = 0.04677, p=0.8321; n=7 mCherry, 8 hM4Di). (L) Schematic of food and water intake. No difference in (M) water intake (RM two-way ANOVA, virus F (1, 14) = 1.213, p=0.2892; CNO F (1, 14) = 2.395, p=0.1440; or interaction F (1, 14) = 0.3441, p=0.5668; n=8/group) or **(N)** Kcal food intake (RM two-way ANOVA,; virus F (1, 14) = 0.1538, p=0.7008; CNO F (1, 14) = 0.1489, p=0.7054; or interaction F (1, 14) = 0.01001, p=0.9217; n=8/group) was observed in female mice. (O) A trend towards main effect of virus was observed in male mice on water intake (RM two-way ANOVA, virus F (1, 13) = 3.440, p=0.0865; no effect CNO F (1, 13) = 0.9864, p=0.3387; or interaction F (1, 13) = 0.2832, p=0.6036), but no difference between CNO and saline with Bonferroni post hoc, mCherry, p=0.6307; hM4Di, p>0.9999; n=7 mCherry, 8 hM4Di), and no effect on (P) Kcal food intake with water (RM two-way ANOVA, virus F (1, 13) = 1.017, p=0.3317; CNO F (1, 13) = 0.2711, p=0.6114; or interaction F (1, 13) = 0.4660, p=0.5068; n=7 mCherry, 8 hM4Di) was observed in male mice. (Q) Schematic of saccharin preference. No difference in 0.1% saccharin preference was observed in (R) female (RM two-way ANOVA, virus F (1, 12) = 0.06909, p=0.7971; CNO F (1, 12) = 0.03693, p=0.8508; or interaction F (1, 12) = 0.001049, p=0.9747; n=7/group) mice. (S) Male mice with hM4Di DREADD showed greater intake than mCherry mice (main effect virus F (1, 9) = 5.219, p=0.0482), however, there was no effect of CNO (F (1, 9) = 0.3088, p=0.5920; or interaction F (1, 9) = 0.003404, p=0.9548; n=5 mCherry, 6 hM4Di). Bonferroni post hoc showed no difference between saline and CNO for mCherry (p>0.9999) or hM4Di p>0.9999). Data expressed as mean \pm SEM. Source data are provided as a source data file. Created in BioRender. Walker, L. (2025) https://BioRender.com/l12b283 & https://BioRender.com/a19p668 [Agreement #RQ27UEVW56 & NH27UEW4CZ].



Supplementary Figure 2, related to Figure 1: Chemogenetic inhibition of EW^{CART} cells does not alter anxiety-like behaviour or body temperature. (A) Experimental timeline, (B) viral strategy and (C) schematic of light-dark box. Two-way repeated measures ANOVA showed chemogenetic inhibition of EW^{CART} cells did not alter % time spent in the light zone of **(D)** female (virus F (1, 15) = 2.394, p=0.1426; CNO F (1, 15) = 0.4651, p=0.5056; or interaction F (1, 15) = 0.6733, p=0.4248; n=8/group) or **(E)** male control or DREADD treated mice (virus F (1, 13) = 0.3790, p=0.5488; CNO F (1, 13) = 0.1344, p=0.7198; or interaction F (1, 13) = 0.2504, p=0.6252; n=7mCherry, 8 hM4Di); latency to light in (F) female (virus F (1, 15) = 0.9889, p=0.3358; CNO F (1, 15) = 0.4883, p=0.4954; or interaction F (1, 15) = 1.025, p=0.3273; n=8/group) or (G) male control or DREADD treated mice (virus F (1, 13) = 0.3208, p=0.5807; CNO F (1, 13) = 0.4987, p=0.4926; or interaction F (1, 13) = 0.9266, p=0.3533; n=7mCherry, 8 hM4Di). Further RM twoway ANOVA showed no effect of CNO on velocity in **(H)** female (virus F (1, 15) = 0.08511, p=0.7745; CNO F (1, 15) = 0.4294, p=0.5222; or interaction F (1, 15) = 0.3438, p=0.5664; n=8/group) or (I) but a trend towards main effect of virus was observed in male mice (virus F (1, 13) = 3.320, p=0.0915; CNO F (1, 13) = 0.2324, p=0.6378; or interaction F (1, 13) = 0.09966, p=0.7572. Bonferroni post hoc showed no difference between saline and CNO treatment for mCherry (p=0.8353) or hM4Di (p=0.9910) mice (n=7mCherry, 8 hM4Di). No effect on body temperature in (J) female (RM two-way ANOVA, virus F (1, 11) = 0.5349, p=0.4798; CNO F (1, 11) = 0.4206, p=0.5299; or interaction F (1, 11) = 0.006572, p=0.9368; n=7 mCherry, 6 hM4Di) or **(K)** male control or DREADD treated mice (RM two-way ANOVA, virus F (1, 9) = 0.03924, p=0.8474; CNO F (1, 9) = 1.819, p=0.2103; or interaction F (1, 9) = 0.6890, p=0.4280; n=6 mCherry, 5 hM4Di). Data expressed as mean \pm SEM, n = 6-9/group. Source data are provided as a source data file. Created in BioRender. Walker, L. (2025) https://BioRender.com/p75g008 & https://BioRender.com/v56y748 [Agreement #ZX27UEWEJG & VO27UEWR8I].

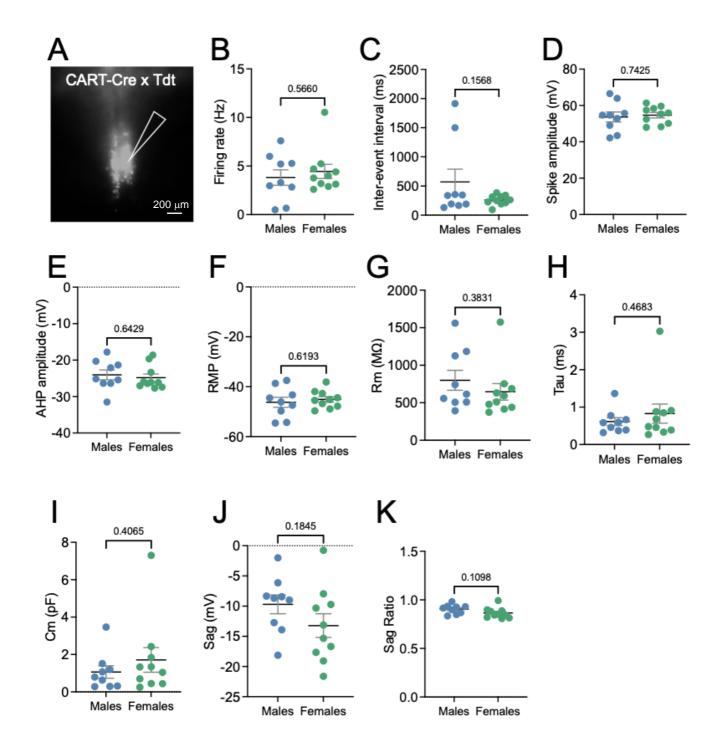


Supplementary Figure 3, related to Figure 1, 2 and Supp 3: EW inhibition specifically reduces alcohol consumption in female mice. (A) Schematic of viral strategy. (B) Female C57BL6J mice with hM4Di in the EW showed a specific reduction in delta (Δ) alcohol intake when treated with CNO compared to male mice (RM two way ANOVA, sex F (1, 15) = 7.874, p=0.0133; time F (3, 45) = 2.977, p=0.0414; no interaction F (3, 45) = 0.4816, p=0.6967; Bonferroni post hoc female vs. male S1 p=0.3966, S2 p=0.0429, S3 p = 0.1357, S4 p = 0.0399, n=9F, 8M). (C) Schematic of viral strategy. (D) Female C57BL6J mice with hM4Di in the EW showed a specific reduction in Δ ghrelin-induced alcohol intake when treated with CNO compared to male mice (RM two-way ANOVA, trend towards main effect, sex F (1, 14) = 3.590, p=0.0790; no effect of session F (1.477, 20.68) = 1.766, p=0.1997; or interaction F (2, 28) = 1.003, p=0.3797; n = 8/sex). (E) Schematic of viral strategy. (F) Female mice with Ghsr-ShRNA injected in the EW showed a specific reduction in Δ alcohol intake compared to male mice (RM two-way ANOVA, main effect of sex F (1, 12) = 9.582, p=0.0093; no effect of session F (2.786, 33.43) = 1.446, p=0.2479; or interaction F (4, 48) = 1.908, p=0.1244; Bonferroni post hoc female vs. male S1 p=0.9788, S2 p=0.2859, S3 p=0.3607, S4 p=0.0092; n =7/sex). (G) Schematic of viral strategy. (H) No difference in Δ alcohol intake was observed between sexes when Ghsr-ShRNA was injected in the VTA of C57BL6J mice (RM two-way ANOVA, no effect sex F (1, 16) = 0.1393, p=0.7139; interaction F (6, 96) = 1.396, p=0.2242; main effect of session F (6, 96) = 4.569, p=0.0004; n=11F, 7M). (I) Schematic of viral strategy. (J) No difference in Δ alcohol intake was observed between sexes when Ghsr-ShRNA was injected in the VTA of DAT-Cre mice (RM two-way ANOVA, no main effect sex, F (1, 9) = 0.04053, p=0.8449; session F (3.188, 28.69) = 0.8519, p=0.4829, or F (6, 54) = 1.260, p=0.2914; n=6F, 7M). Data expressed as mean \pm SEM. Source data are provided as a source data file. Created in BioRender. Walker, L. (2025) https://BioRender.com/e95n462 [Agreement #RW27UEX5ES].

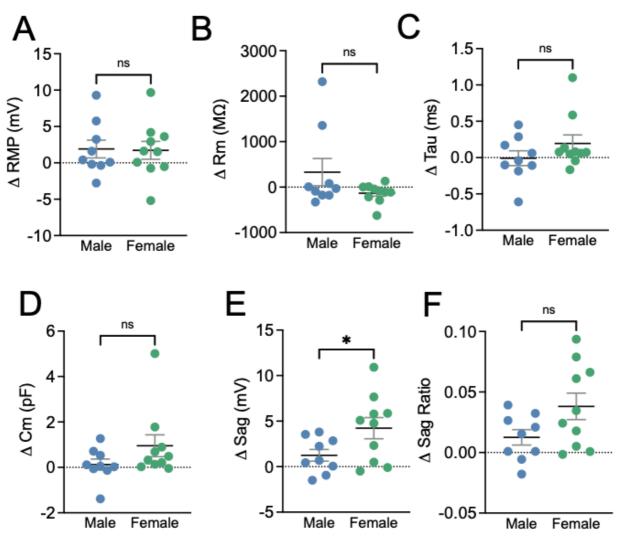


Supplementary Figure 4, VTA GHSR knockdown does not alter binge drinking in male or female mice. (A) Representative image of Ghsr expression with DAT (cre) in the VTA. (B) Ghsr mRNA was expressed in 67% Cre+ (DAT) cells in the VTA, but also on 33% DAT-negative cells. (C) Schematic of viral

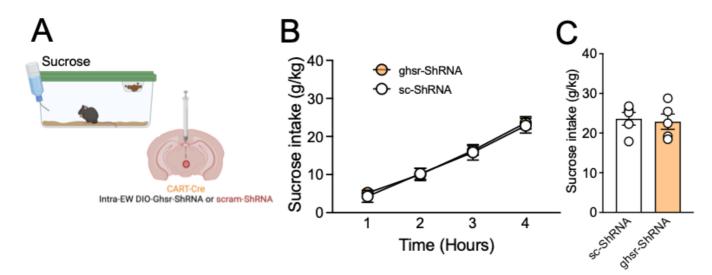
strategy. (D) Ghsr-ShRNA reduced Ghsr mRNA expression in the VTA (unpaired t-test, t=4.450, df=32, p<0.0001; n=15 sc-ShRNA [7F, 8M pooled], 18 Ghsr-ShRNA [11F, 7M pooled]). (E) No significant difference was observed in female mice post shRNA knockdown during training (Two-way ANOVA, no effect of treatment F (1, 17) = 0.1594, p=0.6947; interaction F (11, 187) = 0.4879, p=0.9093; main effect of session F (4.962, 84.35) = 2.883, p=0.0191; Bonferroni post hoc showed no difference to S0 in Sc-ShRNA or Ghsr-ShRNA, p's>0.1) or (F) cumulative intake during test (Two-way ANOVA, no effect of treatment F(1, 17) = 0.0008908, p=0.9765; interaction F(3, 51) = 0.2372, p=0.8700; main effect of time F(3, 51) = 140.3, p < 0.0001). (G) No significant difference was observed in male mice post shRNA knockdown during training (Two-way ANOVA, no effect of treatment F (1, 14) = 2.262, p=0.1548; interaction F (11, 154) = 1.335, p=0.2102; main effect of session F (4.523, 63.32) = 7.010, p<0.0001; Bonferroni post hoc compared to S0, Sc-ShRNA S0 vs. S3 p=0.0039, S0 vs. S10 p=0.0640; Ghsr-ShRNA S0 vs S6 p=0.0092, S0 vs. S10 p=0.0669) but a trend in **(H)** cumulative intake during test (Two-way ANOVA, treatment F (1, 13) = 3.150, p=0.0993; main effect of time F (3, 39) = 98.46, p<0.0001; no interaction F (3, 39) = 0.2024, p=0.8941). (I) Schematic of viral strategy. (J) Representative image of Ghsr-ShRNA in the VTA of DAT-Cre mice. (K) No significant difference was observed in female DAT-Cre mice post shRNA knockdown during training (Two-way ANOVA, treatment F (1, 9) = 0.001528, p=0.9697; or interaction F (6, 54) = 1.275, p=0.2845; main effect of session F (2.405, 21.65) = 4.730, p=0.0153; Bonferroni post hoc showed no difference to S0 in Sc-ShRNA or Ghsr-ShRNA, p's>0.1) or (L) cumulative intake during test (Two-way ANOVA, treatment F (1, 17) = 0.0008908, p=0.9765; interaction F(3, 51) = 0.2372, p=0.8700; main effect time F(3, 51) = 140.3, p<0.0001). (M) No significant difference was observed in male DAT-Cre mice post shRNA knockdown during training (Two-way ANOVA, no effect treatment F (1, 10) = 0.1883, p=0.6735; session F (3.158, 31.58) = 1.615, p=0.2038; or interaction F (6, 60) = 0.4416, p=0.8481) or (N) cumulative intake during test (Two-way ANOVA, no effect of treatment F(1, 10) = 0.1027, p=0.7552; interaction F(3, 30) = 0.2577, p=0.8552; main effect time F(3, 30) = 73.20, p<0.0001). Data expressed as mean \pm SEM. n = 7 female C57BL6J Sc-ShRNA, 12 female C57BL6J Ghsr-ShRNA, 9 male C57BL6J Sc-ShRNA, 7 female C57BL6J Ghsr-ShRNA; n = 5 female DAT-Cre Sc-ShRNA, 6 female DAT-Cre Ghsr-ShRNA, 7 male DAT-Cre Sc-ShRNA, 5 male DAT-Cre Ghsr-ShRNA. Source data are provided as a source data file. Created in BioRender. Walker, L. (2025) https://BioRender.com/u91y968 & https://BioRender.com/q38o338 [Agreement # FF27UEXDWN & GX27UEXK25].



Supplementary Figure 5, related to Figure 4: No sex difference in basal electrophysiological properties of EW^{CART} cells. (A) overview of Tdtomato expression in the EW where patch clamp recording were collected. Unpaired t-test showed no sex differences were in (B) Firing rate (t=0.5854, df=17, p=0.5660), (C) inter-event interval (t=1.482, df=17, p=0.1568), (D) spike amplitude (t=0.3339, df=17, p=0.7425), (E) AHP amplitude (t=0.4720, df=17, p=0.6429), (F) resting membrane potential (RMP, t=0.5060, df=17, p=0.6193), (G) membrane resistance (Rm, t=0.8953, df=17, p=0.3831), (H) tau (t=0.7418, df=17, p=0.4683), (I) membrane time constant (Cm, t=0.8511, df=17, p=0.4065), (J) sag (t=1.383, df=17, p=0.1845), or (K) sag ratio (t=1.687, df=17, p=0.1098) when directly comparing male and female mice. Data expressed as mean \pm SEM. n = 10 cells from 7 female mice, 9 cells from 7 male mice. Source data are provided as a source data file.



Supplementary Figure 6, related to Figure 4: Sex differences in firing properties of EW^{CART} cells following ghrelin application. Unpaired t-test showed no sex differences in ghrelin induced changes in (A) resting membrane potential (RMP, t=0.1051, df=17, p=0.9175), (B) membrane resistance (Rm, t=1.589, df=17, p=0.1305), (C) tau (t=1.297, df=17, p=0.2118), (D) membrane time constant (Cm, t=1.479, df=17, p=0.1576), a significant difference in (E) sag (t=2.179, df=17, p=0.0437), and trend toward difference in (F) sag ratio (t=1.967, df=17, p=0.0658) following bath application of ghrelin. Data expressed as mean \pm SEM. n = 10 cells from 7 female mice, 9 cells from 7 male mice. Source data are provided as a source data file.



Supplementary Figure 7, related to Figure 5: GHSR knockdown from EW^{CART} cells does not alter sucrose intake. (A) Schematic of experiment outline of sucrose intake. No difference in (B) cumulative sucrose consumption over time (RM two-way ANOVA, virus F (1, 8) = 0.04907, p=0.8302; or interaction F (3, 24) = 0.5929, p=0.6257; but main effect of time F (3, 24) = 688.3, p<0.0001), or (C) total sucrose consumption (unpaired t-test, t=0.2934, df=8, p=0.7767) was observed in female mice with GHSR injected within the EW. Data expressed as mean \pm SEM, n=5 mice/treatment. Source data are provided as a source data file. Created in BioRender. Walker, L. (2025) https://BioRender.com/n20k071 [Agreement # NM27UEXY8C].

SUPPLEMENTAL TABLES

Table S1: Key reagents

Viruses	Suppli	Cat #			
AAV2-hsyn-DIO-hM4Di-mcherry	Addge	Addgene			
AAV2-hsyn-DIO-mcherry	Addge	50459-AAV2			
AAV2-hsyn-Ghsr-ShRNA-mCherry	Vector Bi	olabs	This paper		
AAV2-hsyn-scramble-ShRNA-mCherry	Vector Bi	olabs	This paper		
AAV2-hSyn-DIO-Ghsr-ShRNA-mCherry	Vector Bi	olabs	This paper		
AAV2-hSyn-DIO-scramble-ShRNA-					
mCherry	Vector Bi	olabs	This paper		
Drugs	Suppli	ier	Cat #		
LEAP2 (37-76)	Phoenix pharm	naceuticals	#075-58		
JMV2959	MedChemE	xpress,	#HY-U00433A		
Ghrelin (i.p)	BOC Scie	ences	B0084-103854		
Ghrelin (bath)	BOC Scie	BOC Sciences			
Antibodies	Supplier	RRID	Cat #		
	Phoenix				
Rabbit anti-CART	Pharmaceuticals AB_2313614		H-003-62		
Goat-anti-CART	R&D systems AB_2068569		#AF163		
Goat anti-cFos	Santa Cruz AB_2629503		SC-52-G		
Chicken anti-RFP	Rockland AB_10704808		600-901-379		
Donkey anti-rabbit AlexaFluor488	Life Technologies AB_2535792		A-21206		
Donkey anti-Goat- AlexaFluor594	Life Technologies	AB_2534105	A-11058		
	Jackson				
Donkey anti-Chicken 594	Immunology	AB_2340377	703-585-155		
RNAscope	Suppli	ier	Cat #		
RNAscope Multiplex Fluorescent Kit (V1)	Advanced Cell	Diagnostics	320850		
Ghsr	Advanced Cell	426148			
Cartpt	Advanced Cell	432008-C2			
Slc17a6 (vGlut2)	Advanced Cell	Diagnostics	319171-C3		
Cre	Advanced Cell	Diagnostics	#312281-C2		

Table S2: Primer Sequences

	Forward	Reverse
Actin	GAACCCTAAGGCCAACCGTG	GGTACGACCAGAGGCATACA
Hprt	GCAGTACAGCCCCAAAATGG	GGTCCTTTTCACCAGCAAGCT
Ghsr	CTCAGGGACCAGAACCACAAAC	ACAAAGGACACCAGGTTGCAG
Esr1	CCTTGTCTCTTCCCTGATGTCAA	GTTCATTGTGACTGCCCTTGATC
Esr2	CGGTCTGTCTGAATGTGGTCA	GAAGCTGTGTGTGTGTC
Parq5	GTTACCGACACCCACAGAGTT	CGTCCAGATGTTGAGGGTCTC
Parq8	GACGACTGCCATCCTAGAGC	CTGCTGCCCACTCATTGACA

Table S3: Statistical analysis

Stats f	or Fig .1			Main effe	ct		
	Analysis	Sex		Treatme	nt	Interaction	
b	2-tailed unpaired t-test			t=2.607, df=13	P=0.0217		
d	Two-way ANOVA	F (1, 28) = 6.567	P=0.0161	F (1, 28) = 26.86	P<0.0001	F (1, 28) = 1.477	P=0.2344
e	linear regression			R= 0.3877	P=0.0132		
f	Two-way ANOVA	F (1, 27) = 1.162	P=0.2907	F (1, 27) = 7.420	P=0.0112	F (1, 27) = 0.6193	P=0.4382
g	Two-way ANOVA	F (1, 26) = 0.7528	P=0.3935	F (1, 26) = 3.104	P=0.0899	F (1, 26) = 0.03023	P=0.8633
		Time		Treatment		Interaction	
k	RM Two-way ANOVA	F (3, 21) = 450.9	P<0.0001	F (1, 7) = 2.116	P=0.1891	F (3, 21) = 0.5561	P=0.6498
1	2-tailed Paired t-test			t=0.9523, df=7	P=0.3727		
m	RM Two-way ANOVA	F (3, 24) = 188.1	P<0.0001	F (1, 8) = 20.38	P=0.0020	F (3, 24) = 3.171	P=0.0426
n	2-tailed Paired t-test			t=3.378, df=8	P=0.0097		
0	RM Two-way ANOVA	F (3, 18) = 150.8 P<0.0001		F (1, 6) = 0.5880	P=0.4723	F (3, 18) = 0.9155	P=0.4532
р	2-tailed Paired t-test		, ,		P=0.8496		
q	RM Two-way ANOVA	F (3, 21) = 95.49	P<0.0001	F (1, 7) = 0.003947	P=0.9517	F (3, 21) = 0.5557	P=0.6500
r	2-tailed Paired t-test			t=0.3474, df=7	P=0.7385		

Sta	ts for F	ig .2			Main effect				
		Analysis	Time		Treatmen	t	Interactio	Interaction	
d		RM Two-way ANOVA	F (2, 42) = 94.15	P<0.0001	F (2, 21) = 5.364	P=0.0131	F (4, 42) = 1.457	P=0.2324	
е		RM One-way ANOVA			F (2, 21) = 3.512	P=0.0483			
f		RM Two-way ANOVA	F (1.385, 9.693) = 51.95	P<0.0001	F (1.825, 12.77) = 0.02530	P=0.9674	F (2.41, 16.93) = 0.1348	P=0.9076	
g		RM One-way ANOVA			F (2, 21) = 0.03941	P=0.9614			
j	EW	2-tailed unpaired t-test			t=5.729, df=23	P<0.0001			
	VTA	2-tailed unpaired t-test			t=0.8112, df=23	P=0.4256			
k		RM Two-way ANOVA	F (8, 88) = 2.301	P=0.0274	F (1, 11) = 1.853	P=0.2007	F (8, 88) = 2.500	P=0.0170	
ı		RM Two-way ANOVA	F (1.993, 21.92) = 189.7	P<0.0001	F (1, 11) = 5.328	P=0.0414	F (3, 33) = 1.558	P=0.2181	
m		2-tailed unpaired t-test			t=2.527, df=11	P=0.0281			
n		linear regression			R2 = 0.4332	P=0.0145			
0		RM Two-way ANOVA	F (4.686, 46.86) = 2.884	P=0.0261	F (1, 10) = 2.639	P=0.1353	F (8, 80) = 1.006	P=0.4380	
р		RM Two-way ANOVA	F (1.367, 13.67) = 56.69	P<0.0001	F (1, 10) = 0.2224	P=0.6473	F (3, 30) = 0.3392	P=0.7971	
q		2-tailed unpaired t-test			t=0.2184, df=10	P=0.8315			
r		linear regression			R2 = 0.0001	P=0.9532			

Stat	s for Fig .3	Main effect							
Analysis		Time		Treatment		Interaction			
С	One way-ANOVA			F (2, 23) = 7.176	P=0.0038				
d	RM Two-way ANOVA	F (6, 102) = 7.570	P<0.0001	F (1, 17) = 0.8116	P=0.3802	F (6, 102) = 0.4490	P=0.8442		
e f	RM Two-way ANOVA 2-tailed unpaired t-test	F (3, 51) = 171.1	P<0.0001	F (1, 17) = 0.003585 t=0.6164. df=17	P=0.9530 P=0.5458	F (3, 51) = 0.7051	P=0.5534		
g	2-tailed unpaired t-test			t=3.871, df=17	P=0.0012				

Stats for Fig .4

		Analysis	stats	p value
d	Ghsr	2-tailed unpaired t-test	t=1.950, df=7	P=0.0922
	Cartpt	2-tailed unpaired t-test	t=0.7822, df=7	P=0.4598
	vGlut2	2-tailed unpaired t-test	t=1.207, df=7	P=0.2668
g		2-tailed unpaired t-test	t=2.232, df=9	P=0.0525
h		2-tailed unpaired t-test	t=3.850, df=9	P=0.0039
i		2-tailed unpaired t-test	aired t-test t=2.628, df=9	
j		2-tailed unpaired t-test	t=1.296, df=9	P=0.2273
k		2-tailed unpaired t-test	t=0.1361, df=9	P=0.8947
m		2-tailed paired t-test	t=6.452, df=9	P<0.0001
m		2-tailed paired t-test	t=5.614, df=8	P=0.0005
n		2-tailed unpaired t-test	t=2.178, df=17	P=0.0438
n		2-tailed paired t-test	t=8.425, df=9	P<0.0001
0		2-tailed paired t-test	t=8.512, df=8	P<0.0001

p 2-tailed unpaired t-test t=0.9445, df=17	P=0.3581
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Stats for Fig .5			Main effect							
	Analysis		Time		Treatment		Interaction			
d	RM Two-way ANOVA	F (2.993, 47.88) = 4.752		P=0.0056	F (*	, 16) = 9.113	P=0.0082	F (5, 80) = 0.9294	P=0.4665	
е	RM Two-way ANOVA	F (1.664	, 26.63) = 225.6	P<0.0001	F (*	, 16) = 10.99	P=0.0044	F (3, 48) = 4.471	P=0.0076	
f	2-tailed unpaired t-test				t=	3.833, df=16	P=0.0015			
j	RM Two-way ANOVA	F (3.164	, 53.78) = 1.317	P=0.2783	F (1,	17) = 0.002752	P=0.9588	F (5, 85) = 0.1803	P=0.9693	
k	RM Two-way ANOVA	F (1.643	, 27.92) = 188.0	P<0.0001	F (1	, 17) = 0.8315	P=0.3746	F (3, 51) = 1.597	P=0.2015	
I	2-tailed unpaired t-test				t=	1.247, df=17	P=0.2293			

Sta	ats for Fig	.6	Main effect						
	Analysis		Time		Treatment		Interaction		
d		RM Mixed effects model	F (11, 109) = 1.481	P=0.1489	F (1, 10) = 0.1116	P=0.7453	F (11, 109) = 0.1950	P=0.9976	
е	intra-EW	2-tailed Paired t-test			t=0.5968, df=6	P=0.5725			
	control	2-tailed Paired t-test			t=0.8929, df=4	P=0.4224			
f		RM Two-way ANOVA	F (1.471, 8.825) = 42.41	P<0.0001	F (1.431, 8.583) = 11.37	P=0.0058	F (2.760, 16.56) = 5.695	P=0.0082	
g		RM One-way ANOVA			F (1.625, 9.749) = 11.60	P=0.0036			
h		RM Two-way ANOVA	F (1.270, 5.082) = 43.57	P=0.0009	F (1.748, 6.991) = 0.7170	P=0.5029	F (1.969, 7.876) = 1.674	P=0.2476	
i		RM One-way ANOVA			F (1.127, 4.510) = 1.004	P=0.3797			