

Supplementary Materials:

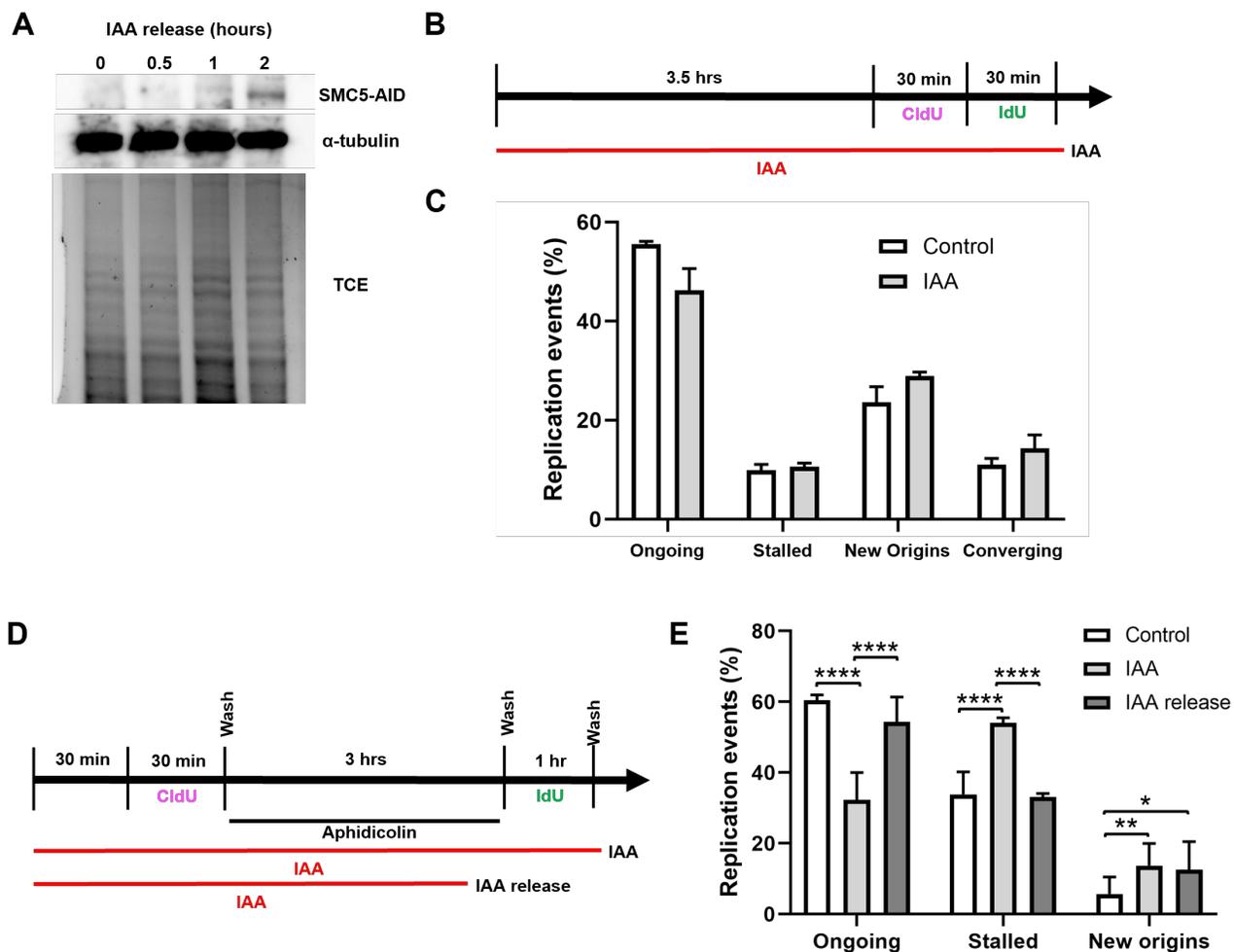
Supplementary Figure S1. SMC5/6 is required for replication fork restart following aphidicolin-mediated replication block.

Supplementary Figure S2. Fork restart defect upon SMC5/6 loss is MRE11-dependent during aphidicolin-mediated replication block and requires MRE11 endonuclease activity.

Supplementary Figure S3. SMC5/6 negatively modulates CSN protein levels.

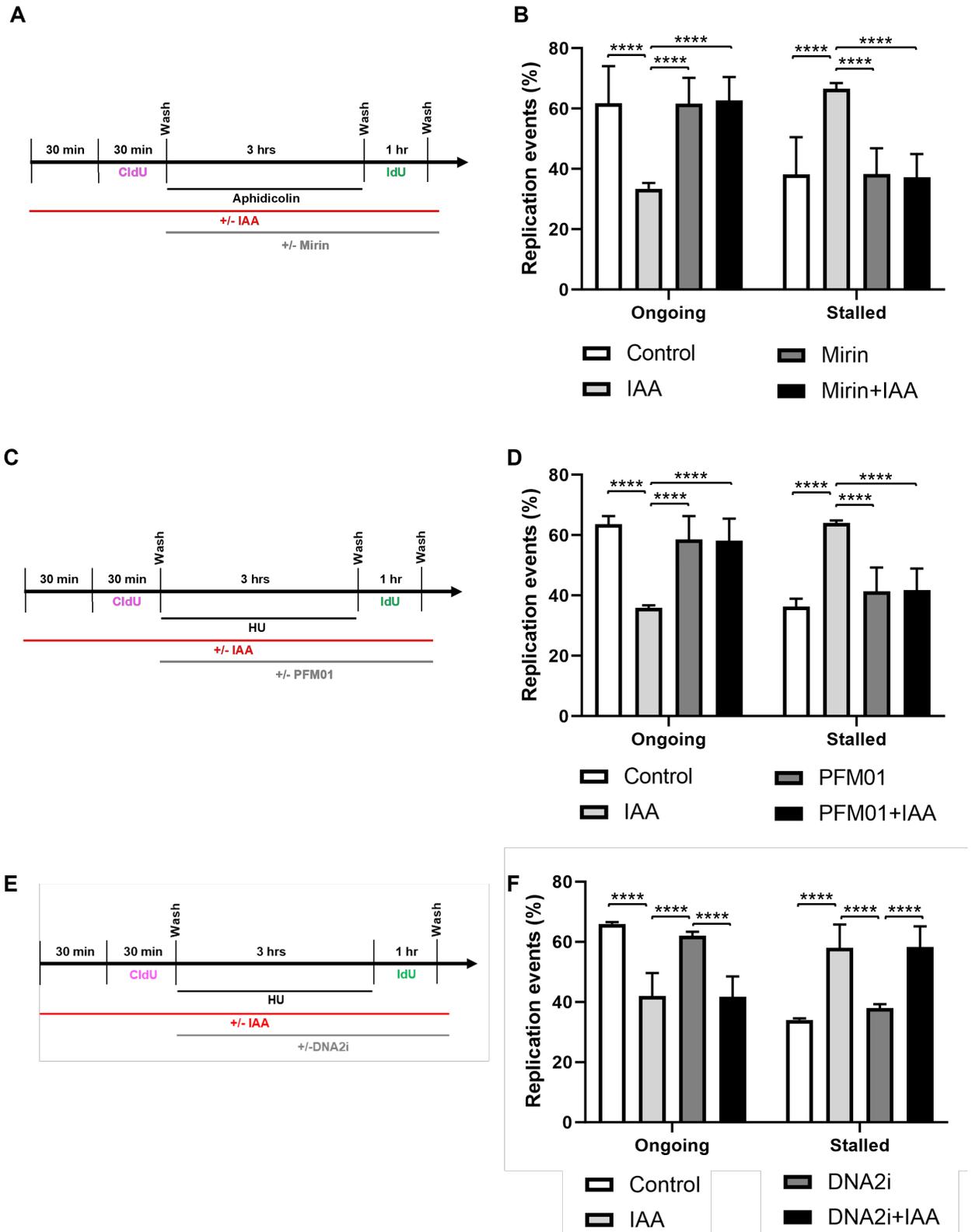
Supplementary Table S1: Antibodies used in this study.

Supplementary Table S2: Statistical analyses performed in this study.



Supplementary Figure S1. SMC5/6 is required for replication fork restart following aphidicolin-mediated replication block. (A) Western blot analysis of SMC5-AID protein levels following IAA (100 μ M) removal for 0, 0.5, 1, and 2 hours, in *Smc5-AID* homozygous mESCs. Alpha-tubulin was used as a loading control, and 2,2,2-Trichloroethanol (TCE) was incorporated in the gel to visualize total loaded protein (lower panel). (B) Schematic of CldU (250 μ M) and IdU (250 μ M) labeling following 3.5 hours of IAA treatment. (C) Quantification of replication event frequency in control and IAA conditions. Data represent mean \pm S.E.M. (control condition: n = 235 fibers, IAA condition: n = 255 fibers). 3 experiments were performed for each condition. (D) Schematic of CldU (250 μ M) and IdU (250 μ M) labeling and aphidicolin (15 μ M) and IAA treatment and release (E) Quantification of replication event frequency in control, IAA, IAA release, and IAA add conditions. Data represent mean \pm S.E.M. (control condition: n = 276 fibers, IAA condition: n = 289 fibers, IAA release condition: n = 222 fibers). 3 experiments were

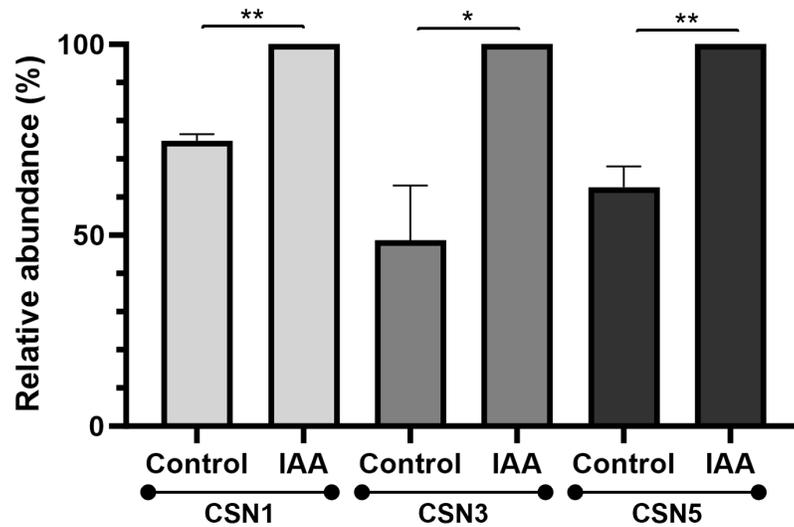
performed for each condition. Pearson's Chi-squared test with Yates' continuity correction, * $p < 0.05$, ** $p < 0.005$, **** $p < 0.0001$. See Supplementary Table S2 for p-values and statistics.



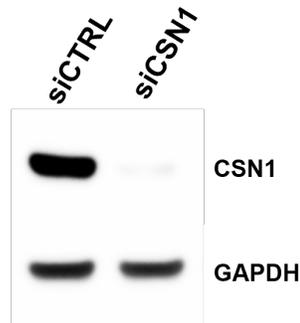
Supplementary Figure S2. Fork restart defect upon SMC5/6 loss is MRE11-dependent during aphidicolin-mediated replication block and requires MRE11 endonuclease activity. (A) Schematic of CldU and IdU labeling and aphidicolin, IAA, and mirin (50 μ M) treatment. (B) Quantification of replication event frequency in control and IAA-treated mESCs, with or without mirin treatment. Data

represent mean \pm S.E.M. (control condition: n = 498 fibers, mirin condition: n = 499 fibers, IAA condition: n = 500 fibers, mirin+IAA condition: n = 500 fibers). 3 experiments were performed for each condition. Pearson's Chi-squared test with Yates' continuity correction, ****p < 0.0001. (C) Schematic of CldU and IdU labeling and HU, IAA, and PFM01 (10 μ M) treatment. (D) Quantification of replication event frequency in control and IAA-treated mESCs, with or without PFM01 treatment. Data represent mean \pm S.E.M. (control condition: n = 409 fibers, PFM01 condition: n = 272 fibers, IAA condition: n = 294 fibers, PFM01+IAA condition: n = 338 fibers). 3 experiments were performed for each condition. Pearson's Chi-squared test with Yates' continuity correction, ****p < 0.0001. (E) Schematic of CldU and IdU labeling and HU, IAA, and DNA2i (10 μ M) treatment. (F) Quantification of replication event frequency in control and IAA-treated mESCs, with or without DNA2i treatment. Data represent mean \pm S.E.M. (control condition: n = 121 fibers, DNA2i condition: n = 170 fibers, IAA condition: n = 243 fibers, PFM01+IAA condition: n = 118 fibers). 3 experiments were performed for each condition. Pearson's Chi-squared test with Yates' continuity correction, ****p < 0.0001. See Supplementary Table S2 for p-values and statistics.

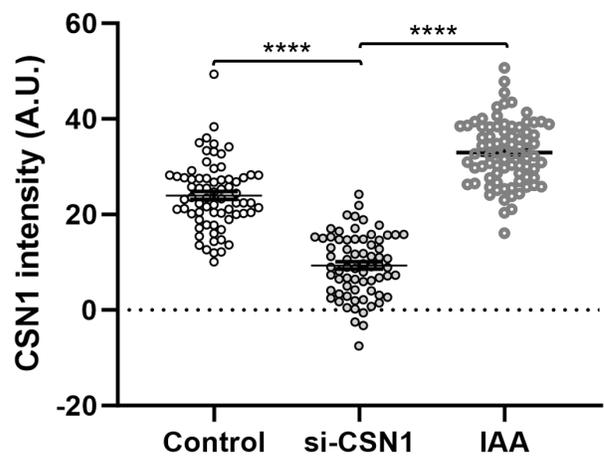
A



B



C



Supplementary Figure S3. SMC5/6 negatively modulates CSN protein levels. (A) Quantification of CSN1, CSN3, and CSN5 Western blots for control and IAA conditions using the Band/Peak Quantification Tool on Image J [140]. Western blots were performed in triplicate. Data represent mean \pm S.E.M. A paired two-tailed t test, ** p < 0.005, * p < 0.05. (B) Western blot of assessment of CSN1 depletion following siRNA treatment. (C) Quantification of average CSN1 intensity in control, siCSN1, and IAA-treated *Smc5-AID* mESCs. Data represent mean \pm S.E.M. (control condition: n = 70 cells, siCSN1 condition: n = 70 cells, IAA condition: n = 81 cells). Unpaired two-tailed Mann-Whitney test, ****p < 0.0001.

Supplemental Table S1: Antibodies used in this study

Primary Antibodies	Host	Source	Cat. Number	ICC Dilution	WB Dilution
53BP1	Rabbit	Abcam	ab21083	1 in 100	
alpha-tubulin	Mouse	ThermoFisher	T9026		1 in 1000
CldU	Rat	Abcam	ab6326	1 in 100	
CSN1	Rabbit	Fortis Life Sciences	A300-026A	1 in 100	1 in 1000
CSN3	Rabbit	Fortis Life Sciences	A300-012A		1 in 1000
CSN5	Rabbit	Fortis Life Sciences	A300-014A		1 in 1000
FANCD2	Rabbit	Novus	NB100-182	1 in 600	
FANCM	Rabbit	Abclonal	A7602	1 in 200	
H4K12ac	Mouse	Abcam	ab46983		
IdU	Mouse	Becton Dickinson	347580	1 in 40	
SMC5	Rabbit	Novus	100-469		1 in 400

Secondary Antibodies	Host	Source	Cat. Number	ICC Dilution	WB Dilution
Mouse IgG, Alexa Fluor 488	Goat	Invitrogen	A-11001	1 in 200	
Mouse IgG, Alexa Fluor 568	Goat	Invitrogen	A-11031	1 in 3000	
Rat IgG, Alexa Fluor 568	Goat	Invitrogen	A-11077	1 in 200	
Rabbit IgG, Alexa Fluor 488	Goat	Invitrogen	A-11008	1 in 3000	
Rabbit IgG, Alexa Fluor 568	Goat	Invitrogen	A-11011	1 in 3000	
Mouse IgG, HRP	Rabbit	Invitrogen	31450		1 in 10,000
Rabbit IgG, HRP	Goat	Invitrogen	31466		1 in 10,000

Supplemental Table S2: Statistics and p-value calculations.

P-values are defined as: * p < 0.05, ** p < 0.005, *** p < 0.0005, **** p < 0.0001

Figure Reference	Significance	p-value	Statistical test	Group
Figure 2				
Figure 2D				
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus IAA release	n.s.	0.4129	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus IAA add	*	0.012	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus IAA release	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus IAA add	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA release versus IAA add	**	0.0022	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus IAA release	n.s.	0.3179	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus IAA add	***	0.0002	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus IAA release	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus IAA add	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA release versus IAA add	**	0.0041	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus IAA	*	0.0315	Pearson's Chi-squared test with Yates' continuity correction	New origins
Control versus IAA release	n.s.	0.3634	Pearson's Chi-squared test with Yates' continuity correction	New origins
Control versus IAA add	n.s.	0.4991	Pearson's Chi-squared test with Yates' continuity correction	New origins
IAA versus IAA release	*	0.008	Pearson's Chi-squared test with Yates' continuity correction	New origins
IAA versus IAA add	*	0.0295	Pearson's Chi-squared test with Yates' continuity correction	New origins
IAA release versus IAA add	n.s.	0.226	Pearson's Chi-squared test with Yates' continuity correction	New origins
Supplemental Figure S1				
Supplemental Figure S1B				
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus IAA release	n.s.	0.3772	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus IAA release	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus IAA release	n.s.	0.121	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus IAA release	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus IAA	**	0.0028	Pearson's Chi-squared test with Yates' continuity correction	New origins
Control versus IAA release	*	0.0164	Pearson's Chi-squared test with Yates' continuity correction	New origins
IAA versus IAA release	n.s.	0.5354	Pearson's Chi-squared test with Yates' continuity correction	New origins

Figure Reference	Significance	p-value	Statistical test	Group
<u>Figure 3</u>				
Figure 3C				
Control versus IAA	****	<0.0001	Unpaired two-tailed Mann-Whitney test	
Figure 3E				
Control versus IAA	****	<0.0001	Unpaired two-tailed Mann-Whitney test	
Figure 3G				
Control versus IAA	****	<0.0001	Unpaired two-tailed Mann-Whitney test	

Figure 4**Figure 4B**

Control versus mirin	n.s.	0.4129	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus mirin+IAA	n.s.	0.3389	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Mirin versus IAA	n.s.	0.1989	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Mirin versus mirin+IAA	n.s.	0.6811	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus mirin+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus mirin	n.s.	0.6005	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus mirin+IAA	n.s.	0.554	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Mirin versus IAA	n.s.	0.4414	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Mirin versus mirin+IAA	n.s.	0.2986	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus mirin+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled

Figure 4D

Control versus IAA	***	0.0003	Unpaired two-tailed Mann-Whitney test
Control versus mirin	n.s.	0.0639	Unpaired two-tailed Mann-Whitney test
Control versus mirin+IAA	*	0.0441	Unpaired two-tailed Mann-Whitney test
IAA versus mirin	****	<0.0001	Unpaired two-tailed Mann-Whitney test
IAA versus mirin+IAA	****	<0.0001	Unpaired two-tailed Mann-Whitney test
mirin versus mirin+IAA	n.s.	0.933	Unpaired two-tailed Mann-Whitney test

Figure 4F

Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus ML216	*	0.0344	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus ML216+IAA	***	0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
ML216 versus IAA	***	0.0003	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
ML216 versus ML216+IAA	**	0.0036	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus ML216+IAA	n.s.	0.651	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus ML216	*	0.0411	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus ML216+IAA	***	0.0002	Pearson's Chi-squared test with Yates' continuity correction	Stalled
ML216 versus IAA	***	0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
ML216 versus ML216+IAA	**	0.0012	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus ML216+IAA	n.s.	0.1929	Pearson's Chi-squared test with Yates' continuity correction	Stalled

Supplemental Figure S2**Supplemental Figure S2B**

Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus mirin	n.s.	0.4441	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus mirin+IAA	n.s.	0.3998	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Mirin versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Mirin versus mirin+IAA	n.s.	0.0808	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus mirin+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus mirin	n.s.	0.4122	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus mirin+IAA	n.s.	0.322	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Mirin versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Mirin versus mirin+IAA	n.s.	0.3998	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus mirin+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled

Supplemental Figure S2D

Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus PFM01	n.s.	0.668	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus PFM01+IAA	n.s.	0.3911	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
PFM01 versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
PFM01 versus PFM01+IAA	n.s.	0.5112	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus PFM01+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus PFM01	n.s.	0.3319	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus PFM01+IAA	n.s.	0.0919	Pearson's Chi-squared test with Yates' continuity correction	Stalled
PFM01 versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
PFM01 versus PFM01+IAA	n.s.	0.3988	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus PFM01+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled

Figure Reference	Significance	p-value	Statistical test	Group
Figure 5				
Figure 5C				
Control versus IAA	****	<0.0001	Unpaired two-tailed Mann-Whitney test	
Figure 5E				
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus CSNi	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus CSNi+IAA	**	0.0025	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus CSNi+CUL4i	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus CSNi+CUL4i+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus CSNi	n.s.	0.5449	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus CSNi+IAA	***	0.0003	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus CSNi+CUL4i	**	0.0044	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus CSNi+CUL4i+IAA	n.s.	0.6566	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
CSNi versus CSNi+IAA	***	0.0003	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
CSNi versus CSNi+CUL4i	n.s.	0.3861	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
CSNi versus CSNi+CUL4i+IAA	*	0.0178	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
CSNi+IAA versus CSNi+CUL4i	***	0.0002	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
CSNi+IAA versus CSNi+CUL4i+IAA	**	0.0032	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
CSNi+CUL4i versus CSNi+CUL4i+IAA	**	0.0031	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus CSNi	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus CSNi+IAA	**	0.0022	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus CSNi+CUL4i	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus CSNi+CUL4i+IAA	***	0.0002	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus CSNi	*	0.0414	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus CSNi+IAA	**	0.0041	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus CSNi+CUL4i	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus CSNi+CUL4i+IAA	n.s.	0.4412	Pearson's Chi-squared test with Yates' continuity correction	Stalled
CSNi versus CSNi+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
CSNi versus CSNi+CUL4i	n.s.	0.6615	Pearson's Chi-squared test with Yates' continuity correction	Stalled
CSNi versus CSNi+CUL4i+IAA	*	0.0241	Pearson's Chi-squared test with Yates' continuity correction	Stalled
CSNi+IAA versus CSNi+CUL4i	***	0.0002	Pearson's Chi-squared test with Yates' continuity correction	Stalled
CSNi+IAA versus CSNi+CUL4i+IAA	**	0.0032	Pearson's Chi-squared test with Yates' continuity correction	Stalled
CSNi+CUL4i versus CSNi+CUL4i+IAA	**	0.0041	Pearson's Chi-squared test with Yates' continuity correction	Stalled

Figure Reference	Significance	p-value	Statistical test	Group
Figure 5G				
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus CUL4i	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus CUL4i+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus mirin+CUL4i	*	0.0377	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus mirin+CUL4i+IAA	n.s.	0.1442	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus CUL4i	n.s.	0.1333	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus CUL4i+IAA	*	0.0098	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus mirin+CUL4i	***	0.0002	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
IAA versus mirin+CUL4i+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
CUL4i versus CUL4i+IAA	n.s.	0.3122	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
CUL4i versus mirin+CUL4i	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
CUL4i versus mirin+CUL4i+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
CUL4i+IAA versus mirin+CUL4i	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
CUL4i+IAA versus mirin+CUL4i+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
mirin+CUL4i versus mirin+CUL4i+IAA	*	0.0473	Pearson's Chi-squared test with Yates' continuity correction	Ongoing
Control versus IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus CUL4i	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus CUL4i+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus mirin+CUL4i	*	0.0169	Pearson's Chi-squared test with Yates' continuity correction	Stalled
Control versus mirin+CUL4i+IAA	n.s.	0.3332	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus CUL4i	n.s.	0.3132	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus CUL4i+IAA	*	0.0311	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus mirin+CUL4i	***	0.0002	Pearson's Chi-squared test with Yates' continuity correction	Stalled
IAA versus mirin+CUL4i+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
CUL4i versus CUL4i+IAA	n.s.	0.1146	Pearson's Chi-squared test with Yates' continuity correction	Stalled
CUL4i versus mirin+CUL4i	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
CUL4i versus mirin+CUL4i+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
CUL4i+IAA versus mirin+CUL4i	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
CUL4i+IAA versus mirin+CUL4i+IAA	****	<0.0001	Pearson's Chi-squared test with Yates' continuity correction	Stalled
mirin+CUL4i versus mirin+CUL4i+IAA	*	0.0415	Pearson's Chi-squared test with Yates' continuity correction	Stalled

Figure Reference	Significance	p-value	Statistical test	Group
<u>Figure 6</u>				
Figure 6C				
Control versus IAA	****	<0.0001	Unpaired two-tailed Mann-Whitney test	
Control versus CSNi	n.s.	0.0787	Unpaired two-tailed Mann-Whitney test	
CSNi versus IAA	**	0.002	Unpaired two-tailed Mann-Whitney test	
Figure 6E				
Control versus IAA	****	<0.0001	Unpaired two-tailed Mann-Whitney test	
Control versus CSNi	n.s.	0.3718	Unpaired two-tailed Mann-Whitney test	
CSNi versus IAA	****	<0.0001	Unpaired two-tailed Mann-Whitney test	