Supplementary Table S1

Compared to Baseline

	Brown-Forsythe test		One-way ANOVA		6 µM ARI *vs* 6 µM OLA
Fig	**F**	***p*-value**	**F**	***p*-value**	***p*-value**
1a	0.3568	0.8711	**17.67**	**<0.0001**	**<0.0001**
1b	0.2965	0.9903	**21.41**	**<0.0001**	n.a.
1c	0.3729	0.9777	**46.50**	**<0.0001**	n.a.
1d	1.261	0.2687	**76.81**	**<0.0001**	n.a.
1e	1.070	0.402	**72.21**	**<0.0001**	n.a.
1f	1.485	0.149	**30.89**	**<0.0001**	n.a.
1g	**2.373**	**0.0087**	**11.92**	**<0.0001**	n.a.
2a	0.4844	0.9297	**16.29**	**<0.0001**	n.a.
2b	0.9960	0.4732	**67.02**	**<0.0001**	n.a.
2c	1.493	0.1529	**10.27**	**<0.0001**	n.a.
2d	0.5270	0.9037	**10.2**	**<0.0001**	n.a.
2g	0.6099	0.8355	**5.881**	**<0.0001**	n.a.
2h	0.5258	0.8981	**2.872**	**0.0075**	n.a.
3a	0.2622	0.9947	7.971	**<0.0001**	n.a.
3b	0.4650	0.881	9.866	**<0.0001**	**0.0286**
3c	0.3725	0.973	**4.839**	**0.0001**	n.a.
3d	0.8681	0.5962	**14.06**	**<0.0001**	n.a.
3e	0.5595	0.8746	**6.356**	**<0.0001**	n.a.
3f	1.400	0.1925	**3.072**	**0.0022**	n.a.
3g	0.4904	0.9203	**8.472**	**<0.0001**	n.a.
4a	0.5479	0.8224	1.574	0.1902	n.a.
4b	0.5480	0.8223	2209	0.0672	n.a.
4c	n.a.	n.a.	n.a.	n.a.	n.a.
4d	n.a.	n.a.	n.a.	n.a.	n.a.
4e	0.5188	0.9028	**11.66**	**<0.0001**	n.a.
6a	0.9561	0.5019	1.964	0.1001	n.a.
6b	0.5819	0.7964	**4.358**	**0.0029**	n.a.
6c	0.5536	0.8181	2.226	0.0654	n.a.
6d	0.4012	0.9198	**3.3**	**0.0125**	n.a.
6e	0.5221	0.9006	**5.96**	**<0.0001**	n.a.
8a	1.161	0.3364	**6.222**	**<0.0001**	n.a.
8b	0.7010	0.7614	**4.98**	**<0.0001**	n.a.
8c	0.9221	0.543	**4.663**	**<0.0001**	n.a.
8d	**2.113**	**0.0294**	1.022	0.4497	n.a.

Compared to Untreated control with 1.5 mM H_2O_2

	Brown-Forsythe test		One-way ANOVA		6 µM ARI *vs* 6 µM OLA
Fig	**F**	***p*-value**	**F**	***p*-value**	***p*-value**
1a	0.1927	0.8280	**4.562**	**0.0429**	**0.0006**
1b	0.06782	0.9903	0.5430	0.7082	n.a.
1c	0.4211	7915	**9.198**	**0.0002**	**0.0001**
1d	0.7226	0.5899	0.2401	0.9112	n.a.
1e	0.4322	0.7837	1.017	0.4225	n.a.
1f	0.3968	0.8078	0.9770	0.4492	n.a.
1g	1.398	0.2705	**3.654**	**0.0217**	n.a.
2a	0.5769	0.6838	**3.642**	**0.0289**	n.a.
2b	0.3039	0.8708	**11.01**	**0.0002**	n.a.
2c	0.5353	0.712	**5.109**	**0.0084**	n.a.
2d	2.418	0.0943	**8.42**	**0.0009**	n.a.
2g	0.9522	0.4738	1.705	0.2248	n.a.
2h	0.8162	0.5432	1.437	0.2917	n.a.
3a	0.2799	0.8844	**0.0359**	**0.1232**	n.a.
3b	0.4049	0.8011	**4.943**	**0.0185**	n.a.
3c	1.106	0.4057	1.111	0.4037	n.a.
3d	1.080	0.4035	0.525	0.7192	n.a.
3e	0.9667	0.467	3.435	0.0516	n.a.
3g	2.463	0.0901	0.288	0.8812	n.a.
3f	1.198	0.3699	2.961	0.0746	n.a.
4a	0.3651	0.8281	1.23	0.3581	n.a.
4b	n.a.	n.a.	n.a.	n.a.	n.a.
4c	0.4318	0.7829	**7.125**	**0.0056**	**<0.0001**
4d	n.a.	n.a.	n.a.	n.a.	n.a.
4e	0.3125	0.8632	1.024	0.4408	n.a.
6a	0.5144	0.7272	0.1873	0.9397	n.a.
6b	n.a.	n.a.	n.a.	n.a.	n.a.
6c	0.8784	0.5103	3.007	0.0719	n.a.
6d	n.a.	n.a.	n.a.	n.a.	n.a.
6e	0.5442	0.7074	1.555	0.2598	n.a.
8a	1.340	0.3008	**3.557**	**0.0312**	n.a.
8b	0.7566	0.5693	**3.297**	**0.0398**	n.a.
8c	1.617	0.2215	1.657	0.212	n.a.
8d	**1.297**	**0.3154**	2.234	0.1142	n.a.

Compared to Untreated control with 3 mM H_2O_2

	Brown-Forsythe test		One-way ANOVA		6 µM ARI *vs* 6 µM OLA
Fig	**F**	***p*-value**	**F**	***p*-value**	***p*-value**
1a	n.a.	n.a.	n.a.	n.a.	n.a.
1b	0.1528	0.9574	**7.788**	**0.0041**	n.a.
1c	0.0393	0.9968	**10.55**	**<0.0001**	**<0.0001**
1d	0.9716	0.4518	**3.480**	**0.0335**	n.a.
1e	1.788	0.1709	**13.93**	**<0.0001**	n.a.
1f	0.6809	0.6159	**3.691**	**0.0277**	n.a.
1g	0.4706	0.7567	1.723	0.1844	n.a.
2a	0.6201	0.6551	**5.013**	**0.0091**	n.a.
2b	1.620	0.2207	**12.03**	**0.0001**	n.a.
2c	1.485	0.2562	**6.397**	**0.0033**	n.a.
2d	0.3037	0.8706	2.888	0.0618	n.a.
2g	0.1883	0.9391	1.564	0.2576	n.a.
2h	0.6043	0.6684	1.833	0.1993	n.a.
3a	0.2033	0.9308	**3.895**	**0.0369**	n.a.
3b	n.a.	n.a.	n.a.	n.a.	n.a.
3c	0.2113	0.9262	0.4404	0.777	n.a.
3d	0.6302	0.649	**7.687**	**0.0017**	**0.0013**
3e	0.4981	0.738	**4.765**	**0.0206**	n.a.
3g	0.8613	0.5093	**3.263**	**0.041**	n.a.
3f	0.2144	0.9244	**6.099**	**0.0094**	**0.0009**
4a	n.a.	n.a.	n.a.	n.a.	n.a.
4b	0.8447	0.5279	**3.484**	**0.0498**	**0.0384**
4c	n.a.	n.a.	n.a.	n.a.	n.a.
4d	1.015	0.4447	**20.48**	**<0.0001**	**<0.0001**
4e	0.3989	0.8052	**7.883**	**0.0039**	n.a.
6a	n.a.	n.a.	n.a.	n.a.	n.a.
6b	0.8955	0.5017	3.222	0.0607	**0.0241**
6c	n.a.	n.a.	n.a.	n.a.	n.a.
6d	0.0855	0.985	**6854**	**0.0064**	**0.0145**
6e	0.3925	0.8096	**11.51**	**0.0009**	**0.0158**
8a	1.606	0.2243	**6.74**	**0.0026**	**0.0422**
8b	1.196	0.3529	**4.035**	**0.0204**	n.a.
8c	0.5342	0.7128	**7.316**	**0.0018**	n.a.
8d	4.915	0.0098	1.19	0.3551	n.a.

Supplementary Table S2

Compared to Baseline

	Brown-Forsythe test		One-way ANOVA		6 µM ARI *vs* 6 µM OLA
Fig	**F**	***p*-value**	**F**	***p*-value**	***p*-value**
2e	0.3343	0.9527	**50.29**	**<0.0001**	**n.a.**
2f	1.322	0.2868	**165.5**	**<0.0001**	n.a.

Compared to STS

	Brown-Forsythe test		One-way ANOVA		6 µM ARI *vs* 6 µM OLA
Fig	**F**	***p*-value**	**F**	***p*-value**	***p*-value**
2e	0.1797	0.9437	**12.56**	**0.0007**	n.a.
2f	0.6113	0.6640	9.812	0.0017	n.a.

Supplementary Table S3

Baseline and 1.5 mM H_2O_2

	Two-way ANOVA		JNK 54: 6 µM ARI *vs* 6 µM OLA	JNK 46: 6 µM ARI *vs* 6 µM OLA
Fig	**F**	***p*-value**	***p*-value**	***p*-value**
5a	**4.382**	**0.0005**	n.a.	**0.002**
5c	**76.18**	**<0.0001**	**<0.0001**	**<0.0001**
	Two-way ANOVA		**ERK 44: 6 µM ARI *vs* 6 µM OLA**	**ERK 42: 6 µM ARI *vs* 6 µM OLA**
Fig	**F**	***p*-value**	***p*-value**	***p*-value**
5e	**2.344**	**0.0314**	n.a.	n.a.
5g	**150**	**<0.0001**	**<0.0001**	**<0.0001**

Baseline and 3 mM H_2O_2

	Two-way ANOVA		JNK 54: 6 µM ARI *vs* 6 µM OLA	JNK 46: 6 µM ARI *vs* 6 µM OLA
Fig	**F**	***p*-value**	***p*-value**	***p*-value**
5a	**3.898**	**0.0013**	**0.0097**	n.a.
5d	**46.57**	**<0.0001**	**0.0082**	**<0.0001**
	Two-way ANOVA		**ERK 44: 6 µM ARI *vs* 6 µM OLA**	**ERK 42: 6 µM ARI *vs* 6 µM OLA**
Fig	**F**	***p*-value**	***p*-value**	***p*-value**
5f	**6.114**	**<0.0001**	**0.0429**	**0.0452**
5h	**32.17**	**<0.0001**	**<0.0001**	**<0.0001**

Supplementary Table S4

Compared to Baseline		Compared to Untreated control with 1.5 mM H_2O_2		Compared to Untreated control with 3 mM H_2O_2	
	t-test		**t-test**		**t-test**
Fig	***p*-value**	**Fig**	***p*-value**	**Fig**	***p*-value**
7a	0.1097	**7a**	0.4485	**7a**	0.3043
7b	0.9706	**7b**	0.6448	**7b**	0.4713
7c	**0.0109**	**7c**	0.0531	**7c**	**0.0088**
7d	**0.0076**	**7d**	0.7527	**7d**	**0.0277**
7e	**0.0147**	**7e**	**0.0314**	**7e**	0.7953
7f	0.0579	**7f**	**0.0004**	**7f**	0.5668

Supplementary Table S5

Supplemental figure

	Brown-Forsythe test		ANOVA		EBSS 1h *vs* EBSS 4h	EBSS 2h *vs* EBSS 4h
Fig	**F**	***p*-value**	**F**	***p*-value**	***p*-value**	***p*-value**
S3a	0.4208	0.6659	**9.505**	**0.0034**	**0.0038**	**0.0159**