Supplementary Table 1. ODD induced by chronic sodium arsenite exposure assessed as nitrone adducts using the IST method in TRL1215 cells (Figure 1,A).*

Arsenic Exposure	Control	Arsenite		
		0.25 µM	0.5 µM	1.0 µM
Weeks	% Control (95% CI)			
2	100.0 (86.1 to113.9)	95.3 (74.3 to 116.2)	102.6 (82.7 to 122.4)	109.7 (91.0 to 128.4)
4	100.0 (50.0 to 150.0)	223.8 (98.1 to 349.6)	156.7 (115.2 to 198.2)	157.2 (113.4 to 201.1)
5	100.0 (55.0 to 145.0)	164.4 (96.4 to 232.4)	330.0 (302.6 to 357.4)	574.0 (525.8 to 622.2)
6	100.0 (87.1 to 112.9)	194.6 (114.3 to 274.9)	435.4 (313.3 to 557.5)	653.0 (368.0 to 937.9)
8	100.0 (73.7 to 126.3)	249.8 (178.1 to 321.6)	645.4 (475.1 to 815.7)	810.9 (507.7 to 1114.1)
10	100.0 (58.8 to 141.2)	273.0 (190.1 to 355.9)	630.0 (343.2 to 916.8)	781.1 (453.1 to 1109.2)
12	100.0 (88.2 to 111.8)	217.2 (160.3 to 274.0)	664.9 (412.1 to 917.7)	879.6 (680.3 to 1078.8)
14	100.0 (86.4 to 113.6)	130.3 (96.7 to 163.8)	760.3 (492.8 to 1027.8)	1035.2 (811.1 to 1259.3)
16	100.0 (86.0 to 114.0)	156.4 (100.3 to 212.5)	836.4 (368.0 to 1304.7)	1138.8 (796.7 to 1480.8)
17	100.0 (69.3 to 130.7)	176.7 (34.9 to 318.4)	353.8 (138.6 to 569.0)	775.1 (688.3 to 861.9)
18	100.0 (52.3 to 147.7)	259.1 (19.6 to 483.8)	243.5 (120.4 to 366.7)	62.1 (50.8 to 73.5)
20	100.0 (89.5 to 110.5)	81.1 (59.6 to 102.6)	81.7 (60.4 to 103.1)	99.8 (87.7 to 112.0)
22	100.0 (57.1 to 142.9)	111.8 (103.2 to 120.5)	123.6 (95.0 to 152.1)	137.4 (112.7 to 162.1)
24	100.0 (77.4 to 122.6)	112.6 (43.9 to 143.8)	88.0 (70.8 to 105.2)	65.0 (29.6 to 100.5)
26	100.0 (67.0 to 133.1)	93.0 (70.8 to 115.2)	93.4 (67.4 to 119.4)	87.8 (81.3 to 94.3)
28	100.0 (78.1 to 121.9)	86.3 (75.6 to 97.1)	113.9 (98.0 to 129.8)	88.8 (85.1 to 92.5)
30	100.0 (70.6 to 129.5)	79.8 (67.9 to 91.8)	107.4 (82.5 to 132.3)	102.7 (79.9 to 125.6)

* ODD = oxidative DNA damage, IST = immuno-spin trapping. CI = confidence interval. Data shown represent the mean of nine samples in three independent experiments, and are plotted graphically in Figure 1,A.

Supplementary Table 2. ODD induced by chronic sodium arsenite exposure assessed as nitrone adducts using the IST method in RWPE-1 cells (Figure 1,B).*

Arsenic Exposure	Control	Arsenite		
		1.0 µM	2.5 µM	5.0 µM
Weeks	% Control (95% CI)			
2	100.0 (81.9 to 118.1)	118.5 (101.6 to 135.5)	99.4 (96.4 to 102.4)	118.6 (101.2 to 136.0)
4	100.0 (78.6 to 121.4)	130.6 (104.3 to 156.9)	108.4 (95.5 to 121.3)	112.5 (95.4 to 129.3)
5	100.0 (80.0 to 120.0)	142.7 (119.3 to 166.2)	117.3 (100.5 to 134.2)	106.4 (97.5 to 115.3)
6	100.0 (84.0 to 116.0)	133.8 (107.0 to 160.6)	96.6 (83.9 to 109.4)	92.9 (80.6 to 105.2)
8	100.0 (87.7 to 112.3)	125.4 (104.9 to 145.9)	105.1 (78.2 to 132.0)	91.3 (60.8 to 121.8)
10	100.0 (68.8 to 131.2)	116.6 (91.8 to 141.4)	122.8 (79.0 to 166.6)	100.8 (62.1 to 139.5)
12	100.0 (51.8 to 148.2)	97.8 (64.8 to 130.9)	99.6 (73.0 to 126.2)	96.3 (79.0 to 113.6)
14	100.0 (44.4 to 155.6)	111.5 (57.1 to 165.9)	93.0 (54.1 to 131.8)	117.2 (77.1 to 157.3)
16	100.0 (58.8 to 141.2)	81.9 (71.1 to 92.7)	92.0 (77.8 to 106.1)	105.5 (73.0 to 137.0)
18	100.0 (80.8 to 119.2)	103.0 (84.3 to 121.8)	99.5 (77.8 to 121.3)	99.4 (82.4 to 116.4)
20	100.0 (61.3 to 138.7)	108.4 (92.8 to 124.1)	88.0 (69.4 to 106.6)	101.6 (80.7 to 122.4)
22	100.0 (58.9 to 141.1)	110.2 (93.7 to 126.7)	92.9 (70.5 to 115.3)	100.1 (79.8 to 120.4)
24	100.0 (63.2 to 136.8)	111.9 (97.2 to 126.6)	97.9 (74.8 to 121.0)	98.7 (82.5 to 114.9)
28	100.0 (72.4 to 127.6)	99.2 (43.6 to 154.8)	108.2 (51.9 to 164.5)	86.0 (69.6 to 102.4)
30	100.0 (85.6 to 114.4)	112.3 (93.6 to 131.1)	107.2 (85.6 to 128.8)	119.2 (102.8 to 135.6)

* ODD = oxidative DNA damage, IST = immuno-spin trapping. CI = confidence interval. Data shown represent the mean of nine samples in three independent experiments, and are plotted graphically in Figure 1,B.

Supplementary Table 3. ODD induced by chronic sodium arsenite exposure assessed as nitrone adducts using the IST method in UROtsa cells (Figure 4,A).*

Arsenic Exposure	Control	Arsenite		
		0.25 µM	0.5 µM	1.0 µM
Weeks	% Control (95% CI)			
2	100.0 (53.5 to 146.5)	85.7 (43.8 to 127.6)	86.6 (67.4 to 105.8)	87.7 (70.6 to 104.7)
4	100.0 (79.8 to 120.2)	90.1 (62.1 to 118.1)	93.5 (71.4 to 115.6)	106.2 (88.2 to 124.2)
6	100.0 (81.1 to 119.0)	103.7 (78.8 to 128.7)	109.2 (85.0 to 133.3)	110.8 (96.3 to 125.4)
8	100.0 (69.2 to 130.8)	109.4 (96.6 to 122.2)	124.8 (94.4 to 155.2)	105.0 (45.6 to 164.3)
10	100.0 (59.2 to 140.8)	119.6 (71.1 to 168.1)	132.0 (56.5 to 207.5)	88.3 (55.0 to 121.5)
12	100.0 (63.9 to 136.1)	111.3 (72.9 to 149.7)	113.4 (44.0 to 182.8)	84.6 (58.0 to 111.2)
14	100.0 (74.7 to 125.3)	98.9 (83.5 to 114.3)	119.2 (79.9 to 158.5)	88.4 (75.6 to 101.2)
16	100.0 (74.5 to 125.5)	102.2 (89.0 to 115.3)	125.4 (104.1 to 146.7)	102.7 (84.4 to 121.0)
18	100.0 (84.2 to 115.8)	97.3 (89.8 to 104.9)	109.1 (63.0 to 155.3)	95.3 (76.2 to 114.4)
20	100.0 (84.8 to 115.2)	102.9 (88.2 to 117.5)	114.1 (94.0 to 134.3)	121.1 (109.7 to 132.5)
22	100.0 (88.4 to 111.6)	100.1 (93.8 to 106.4)	101.1 (95.4 to 106.7)	104.1 (91.2 to 116.9)
24	100.0 (85.0 to 115.0)	97.9 (57.8 to 138.0)	105.3 (63.4 to 147.3)	95.7 (87.4 to 104.0)
26	100.0 (85.0 to 115.0)	110.5 (93.8 to 127.2)	92.8 (83.1 to 102.4)	91.7 (74.7 to 108.7)
28	100.0 (85.8 to 114.2)	91.7 (79.3 to 106.3)	94.4 (82.8 to 105.9)	112.1 (102.2 to 122.0)
30	100.0 (80.2 to 119.9)	92.9 (78.6 to 107.3)	87.6 (70.2 to 105.1)	87.0 (73.2 to 100.8)

* ODD = oxidative DNA damage, IST = immuno-spin trapping. CI = confidence interval. Data shown represent the mean of nine samples in three independent experiments, and are plotted graphically in Figure 4,A.

Supplementary Table 4. ODD induced by chronic sodium arsenite exposure assessed as nitrone adducts using the IST method in UROtsa/F35 cells (Figure 4,B).*

Arsenic Exposure	**Control**	**Arsenite**		
		0.25 µM	**0.5 µM**	**1.0 µM**
Weeks	**% Control (95% CI)**			
2	100.0 (76.4 to 123.6)	85.3 (48.9 to 121.7)	96.5 (88.7 to 104.4)	103.6 (91.1 to 116.0)
4	100.0 (68.9 to 131.2)	103.3 (86.8 to 119.7)	116.8 (108.6 to 125.1)	97.0 (58.3 to 135.7)
6	100.0 (72.9 to 127.1)	82.3 (61.9 to 102.6)	88.1(69.1 to 107.1)	87.1 (66.7 to 107.5)
8	100.0 (92.1 to 107.9)	122.8 (101.8 to 143.8)	157.0 (137.7 to 176.3)	194.2 (168.1 to 220.4)
10	100.0 (89.0 to 111.0)	201.4 (189.6 to 213.1)	192.3 (169.5 to 215.2)	181.8 (164.9 to 198.8)
12	100.0 (81.0 to 119.0)	163.1 (120.0 to 206.3)	193.7 (165.7 to 221.7)	216.6 (147.5 to 285.7)
14	100.0 (69.1 to 130.9)	163.3 (133.8 to 192.8)	170.2 (138.2 to 185.0)	220.8 (173.4 to 268.2)
16	100.0 (87.4 to 112.6)	126.0 (110.6 to 141.5)	146.3 (135.9 to 156.7)	225.2 (188.0 to 262.5)
18	100.0 (91.0 to 109.0)	121.8 (112.8 to 130.7)	154.7 (137.7 to 171.7)	208.2 (185.6 to 230.9)
20	100.0 (70.5 to 129.5)	139.3 (124.2 to 154.4)	153.0 (121.9 to 184.1)	213.3 (193.5 to 233.2)
22	100.0 (91.9 to 108.1)	117.9 (101.5 to 134.3)	157.7 (136.7 to 178.6)	192.6 (176.9 to 208.2)
24	100.0 (87.6 to 112.4)	118.3 (106.4 to 130.2)	142.0 (128.3 to 155.7)	192.3 (174.8 to 209.9)
26	100.0 (88.8 to 111.2)	101.0 (83.2 to 118.8)	137.1 (115.0 to 159.2)	170.7 (152.8 to 188.7)
28	100.0 (89.8 to 110.2)	93.3 (72.3 to 114.3)	96.0 (79.2 to 113.1)	113.9 (95.3 to 132.5)
30	100.0 (68.2 to 131.8)	94.3 (63.4 to 125.2)	106.7 (97.4 to 116.0)	100.3 (70.6 to 130.0)

* ODD = oxidative DNA damage, IST = immuno-spin trapping. CI = confidence interval. Data shown represent the mean of nine samples in three independent experiments, and are plotted graphically in Figure 4,B.