

### Supplemental Table 1

Lack of effects of 144h SeMet or sodium selenite supplementation on **A.** cell survival 24h after UVA radiation (percentage vs control i.e. neither irradiated nor Se supplemented) **B.** GPX activities (U/g prot) **C.** MDA  $\mu\text{mol/g}$  prot and **D.** thiol-groups (percentage remaining 24h after UVA radiation causing 30% cell death in NHSF). Results are means of  $n > 3$  independent experiments (up to 8 donors)  $\pm$  SD (control = irradiated cells not supplemented).

A.

	SeMet	sodium selenite
Irradiated cells not supplemented	69,4 $\pm$ 6,78	65,9 $\pm$ 7,3
0,1 $\mu\text{M}$	80,7 $\pm$ 13,6	72,2 $\pm$ 10,2
0,5 $\mu\text{M}$	64,1 $\pm$ 15,1	72,0 $\pm$ 9,9
1 $\mu\text{M}$	62,9 $\pm$ 14,3	77,3 $\pm$ 6,1
5 $\mu\text{M}$	66,6 $\pm$ 18,1	64,8 $\pm$ 8,8

B.

	SeMet	sodium selenite
Irradiated cells not supplemented	111,9 $\pm$ 29,7	104,5 $\pm$ 20,2
0,1 $\mu\text{M}$	98,6 $\pm$ 35,2	77,2 $\pm$ 44,4
0,5 $\mu\text{M}$	98,5 $\pm$ 21,7	97,2 $\pm$ 13,1
1 $\mu\text{M}$	110,8 $\pm$ 25,7	101,1 $\pm$ 11,5
5 $\mu\text{M}$	105,5 $\pm$ 13,9	toxic

C.

	SeMet	sodium selenite
Irradiated cells not supplemented		0,6 $\pm$ 0,22
0,1 $\mu\text{M}$		0,47 $\pm$ 0,17
0,5 $\mu\text{M}$	Fig. 4c	0,51 $\pm$ 0,13
1 $\mu\text{M}$		0,47 $\pm$ 0,12
5 $\mu\text{M}$		toxic

D.

	<b>SeMet</b>	<b>sodium selenite</b>
<b>Irradiated cells not supplemented</b>	<b>97,5 ± 9,3</b>	<b>97,3 ± 12,2</b>
<b>0,1 µM</b>	<b>105,2 ± 5,5</b>	<b>95,1 ± 13,5</b>
<b>0,5 µM</b>	<b>86,7 ± 16,4</b>	<b>97,7 ± 20,0</b>
<b>1 µM</b>	<b>87,3 ± 23,8</b>	<b>98,2 ± 10,9</b>
<b>5 µM</b>	<b>86,8 ± 8,3</b>	<b>toxic</b>