

Table S1. Weight of testis/epididymis, antioxidant parameters and concentration of essential elements in tissues (testis, epididymis) and % of DNA damage in testicular haploid/diploid and epididymal sperm cells of Wistar rats (N=5 rats per group). Rats are treated orally for 28 consecutive days with imidacloprid at doses of 0.06 mg/kg b. w./day, 0.8 mg/kg b. w./day and 2.25 mg/kg b. w./day. Data are expressed as mean \pm standard deviation, median and range (min – max).

	NEGATIVE CONTROL	0.06 mg/kg b. w./day	0.8 mg/kg b. w./day	2.25 mg/kg b. w./day
ORGAN WEIGHT				
TESTIS (g)	1.62 \pm 0.15 1.56 (1.48-1.80)	1.56 \pm 0.13 1.62 (1.38-1.68)	1.48 \pm 0.13 1.48 (1.38-1.57)	1.30 \pm 0.17 1.27 (1.08-1.49)
EPIDIDYMIS (g)	0.865 \pm 0.106 0.807 (0.778-1.019)	0.809 \pm 0.061 0.790 (0.744-0.891)	0.741 \pm 0.084 0.729 (0.624-0.858)	0.792 \pm 0.090 0.774 (0.708-0.918)
ANTIOXIDANT PARAMETERS				
TESTIS				
GSH (μg/g tissue)	12.3 \pm 1.3 12.4 (10.6-13.7)	11.3 \pm 1.4 10.8 (9.86-13.5)	12.3 \pm 1.5 12.1 (10.8-14.5)	11.1 \pm 3.1 11.1 (7.38-14.7)
GPx (U/g protein)	179 \pm 55 179 (127-231)	219 \pm 65 216 (158-319)	279 \pm 72 307 (197-333)	206 \pm 67 193 (135-308)
SOD (U/g protein)	12269 \pm 3222 11726 (9352-15727)	15940 \pm 870 15659 (15244-16916)	14111 \pm 1784 14463 (12177-15692)	13072 \pm 1355 12865 (11832-14519)
EPIDIDYMIS				
GSH (μg/g tissue)	1.33 \pm 0.19 1.41 (1.06-1.50)	2.30 \pm 0.60 2.19 (1.61-3.23)	1.68 \pm 0.60 1.71 (0.95-2.49)	1.35 \pm 0.36 1.29 (0.84-1.70)
GPx (U/g protein)	281 \pm 55 269 (232-351)	487 \pm 70 483 (415-568)	432 \pm 79 429 (335-513)	539 \pm 57 538 (471-598)
SOD (U/g protein)	17501 \pm 1036 17057 (16315-18858)	24347 \pm 2534 24079 (22283-28626)	22532 \pm 2505 22017 (20525-26826)	22008 \pm 1387 22561 (20031-23511)
ESSENTIAL ELEMENTS				
TESTIS				
Na (mg/g)	1562 \pm 56 1555 (1503 – 1653)	1546 \pm 27 1541 (1516 – 1588)	1636 \pm 67 1646 (1540 – 1715)	1679 \pm 82 1695 (1545 – 1767)
Mg (mg/g)	194 \pm 16 198 (171 – 213)	194 \pm 16 195 (176 – 212)	197 \pm 11 201 (179 – 209)	200 \pm 21 201 (168 – 225)
Ca (mg/g)	56.1 \pm 10.5 52.3 (49.3 – 74.8)	49.8 \pm 4.7 50.3 (44.2 – 56.7)	53.0 \pm 4.5 51.9 (48.7 – 60.5)	59.8 \pm 14.5 54.0 (49.7 – 85.2)
K (mg/g)	4149 \pm 302 4282 (3805 – 4420)	4199 \pm 362 4272 (3798 – 4597)	4280 \pm 260 4378 (3819 – 4447)	4156 \pm 361 4311 (3661 – 4557)
Fe (mg/g)	24.3 \pm 2.1 24.2 (21.1 – 26.8)	24.6 \pm 1.6 24.9 (22.9 – 26.8)	25.3 \pm 0.7 25.0 (24.6 – 26.2)	25.0 \pm 3.4 24.4 (21.5 – 30.6)
Cu (mg/g)	2.09 \pm 0.16 2.14 (1.85 – 2.25)	2.04 \pm 0.13 2.01 (1.88 – 2.23)	2.05 \pm 0.04 2.04 (2.00 – 2.11)	2.05 \pm 0.23 2.08 (1.67 – 2.30)

Zn (mg/g)	27.3 ± 1.0 27.7 (25.9 – 28.5)	27.3 ± 2.1 27.3 (24.9 – 29.8)	27.4 ± 1.5 27.8 (25.1 – 28.9)	26.3 ± 5.2 27.9 (18.6 – 32.1)
Se (µg/g)	967 ± 21 966 (940 – 996)	937 ± 68 925 (859 – 1021)	949 ± 58 965 (852 – 997)	925 ± 184 965 (671 – 1162)
Mo (µg/g)	60.5 ± 7.8 60.6 (51.3 – 72.4)	59.6 ± 3.5 59.0 (55.8 – 65.0)	72.9 ± 7.9 76.5 (58.8 – 76.9)	73.9 ± 9.1 72.5 (63.2 – 88.2)
Mn (µg/g)	332 ± 34 331 (295 – 376)	326 ± 33 321 (300 – 381)	329 ± 10 327 (317 – 341)	359 ± 76 337 (272 – 477)
EPIDIDYMISS				
Na (mg/g)	1127 ± 148 1038 (985 – 1292)	1319 ± 236 1416 (971 – 1472)	1477 ± 398 1331 (1210 – 2182)	1314 ± 107 1338 (1209 – 1463)
Mg (mg/g)	108 ± 21 110 (76.3 – 128)	129 ± 37 129 (83.7 – 174)	141 ± 55 128 (90.8 – 234)	116 ± 13 114 (98.3 – 135)
Ca (mg/g)	71.5 ± 17.9 72.7 (51.4 – 99.2)	66.2 ± 5.0 65.4 (61.6 – 72.6)	77.6 ± 12.3 79.8 (64.5 – 90.5)	77.4 ± 19.2 66.5 (60.1 – 102)
K (mg/g)	1499 ± 247 1469 (1172 – 1794)	1785 ± 390 1875 (1237 – 2154)	2009 ± 741 1724 (1396 – 3291)	1669 ± 145 1620 (1544 – 1911)
Fe (mg/g)	19.1 ± 1.7 18.2 (17.6 – 21.0)	19.0 ± 1.8 19.1 (16.9 – 21.0)	21.0 ± 5.4 18.3 (16.3 – 29.8)	21.0 ± 4.7 19.9 (17.1 – 28.9)
Cu (mg/g)	1.45 ± 0.26 1.37 (1.16 – 1.85)	1.59 ± 0.37 1.70 (1.08 – 1.91)	1.78 ± 0.67 1.46 (1.32 – 2.95)	1.48 ± 0.22 1.58 (1.09 – 1.61)
Zn (mg/g)	26.5 ± 4.8 24.1 (22.4 – 32.3)	28.9 ± 8.4 30.5 (17.8 – 36.5)	31.5 ± 14.0 27.0 (18.6 – 55.4)	26.9 ± 2.1 27.3 (24.1 – 28.8)
Se (µg/g)	937 ± 169 851 (791 – 1131)	993 ± 238 1003 (712 – 1255)	1062 ± 475 916 (652 – 1877)	945 ± 81 968 (828 – 1015)
Mo (µg/g)	58.8 ± 5.4 56.7 (53.1 – 67.5)	69.8 ± 13.3 72.7 (51.4 – 82.4)	69.6 ± 8.3 71.8 (58.0 – 76.8)	71.0 ± 6.6 68.6 (65.2 – 82.3)
Mn (µg/g)	208 ± 32 203 (178 – 258)	242 ± 57 260 (164 – 286)	276 ± 103 237 (172 – 441)	238 ± 39 219 (207 – 298)
% DNA DAMAGE				
HAPLOID TESTICULAR CELLS	1.81 ± 2.73 0.421 (0 - 13.9)	2.53 ± 3.16 1.14 (0 - 16.0)	2.60 ± 3.16 1.25 (0 - 18.4)	2.32 ± 3.01 1.06 (0 - 16.8)
DIPLOID TESTICULAR CELLS	1.68 ± 2.24 0.587 (0 - 15.4)	2.37 ± 2.87 1.16 (0 - 18.8)	2.26 ± 2.66 1.15 (0 - 14.1)	2.32 ± 2.96 1.00 (0 - 15.7)
EPIDIDYMAL CELLS	2.36 ± 2.93 1.06 (0 - 18.0)	3.15 ± 3.34 2.02 (0 - 16.0)	2.38 ± 3.00 0.977 (0 - 14.9)	2.35 ± 2.98 1.11 (0 - 17.3)