**Supplementary Table 2.**

Summary of two-way ANOVAs showing the effects of age, season and their interaction of all measured peroxisomal parameters from proximal tubule segment II: surface density (Sv), volume density (Vv), numerical density (Nv). P – peroxisome, Cell –proximal tubule cell, Cyt – cytoplasm.

|  |  |  |  |
| --- | --- | --- | --- |
| Parameters | Sex | Season | Interaction (Sex × Season) |
|  | Fisher’s F ratio | *p* value | Fisher’s F ratio | *p* value | Fisher’s F ratio | *p* value |
| Sv (P, Cell) | 54.13 | <0.001 | 13.33 | <0.001 | 2.15 | 0.114 |
| Vv (P, Cell) | 40.98 | <0.001 | 8.11 | <0.001 | 1.86 | 0.158 |
| Nv (P, Cell) | 62.80 | <0.001 | 12.82 | <0.001 | 4.36 | 0.011 |
| Sv (P, Cyt) | 53.81 | <0.001 | 12.78 | <0.001 | 2.51 | 0.077 |
| Vv (P, Cyt) | 38.21 | <0.001 | 7.33 | <0.001 | 2.03 | 0.131 |
| Nv (P, Cyt) | 64.15 | <0.001 | 12.14 | <0.001 | 4.92 | 0.007 |

Degrees of freedom (df): df(sex) = 1; df (season) = 3; df (interaction) = 3; df (residual) = 31.