

**Supplementary material****Not all cells are equal: effects of temperature and sex on the size of different cell types in the Madagascar ground gecko *Paroedura picta***

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**Table S1.** Means and standard deviations of raw trait values of the Madagascar ground gecko *Paroedura picta* reared at 24, 27 and 30 °C.

| Trait  | Measure/units        | 24 °C            |                  | 27 °C            |                  | 30 °C            |                  |
|--|----------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|  |                      | Males (N=5)      | Females (N=18)   | Males (N=6)      | Females (N=5)    | Males (N=11)     | Females (N=12)   |
| Snout-to-vent length                                 | length/mm            | 87.93 ± 1.56     | 78.77 ± 0.91     | 99.64 ± 1.74     | 83.08 ± 1.91     | 88.06 ± 2.50     | 84.03 ± 0.86     |
| Erythrocytes   | area/μm <sup>2</sup> | 141.55 ± 4.34    | 139.79 ± 3.89    | 154.35 ± 5.13    | 126.63 ± 8.97    | 139.63 ± 3.81    | 141.60 ± 2.76    |
| Nuclei of erythrocytes                               | area/μm <sup>2</sup> | 24.22 ± 1.36     | 24.14 ± 0.52     | 24.03 ± 0.54     | 23.42 ± 0.53     | 22.31 ± 0.66     | 22.43 ± 0.35     |
| Epithelial cells in renal proximal tubules           | area/μm <sup>2</sup> | 131.49 ± 6.17    | 162.33 ± 3.79    | 121.48 ± 3.33    | 140.50 ± 9.42    | 126.89 ± 3.82    | 149.09 ± 4.82    |
| Nuclei of epithelial cells in renal proximal tubules | area/μm <sup>2</sup> | 26.61 ± 1.19     | 36.00 ± 0.62     | 26.12 ± 0.56     | 33.03 ± 1.46     | 23.83 ± 1.09     | 28.80 ± 0.72     |
| Fibre cross-sections of tail striated muscles        | area/μm <sup>2</sup> | 2900.59 ± 341.10 | 2406.96 ± 116.72 | 4918.92 ± 567.40 | 2023.87 ± 357.94 | 2800.55 ± 266.89 | 1890.05 ± 159.71 |
| Hepatocytes  | area/μm <sup>2</sup> | 487.98 ± 66.45   | 315.25 ± 17.50   | 607.26 ± 84.72   | 292.86 ± 73.61   | 456.65 ± 58.78   | 317.19 ± 26.40   |
| Nuclei of hepatocytes                                | area/μm <sup>2</sup> | 25.05 ± 0.71     | 23.80 ± 0.65     | 30.51 ± 4.40     | 22.57 ± 1.34     | 34.18 ± 3.46     | 25.72 ± 2.42     |
| Duodenal enterocytes                                 | diameter/μm          | 4.88 ± 0.09      | 5.17 ± 0.07      | 4.79 ± 0.07      | 4.83 ± 0.10      | 4.79 ± 0.09      | 4.87 ± 0.09      |
| Nuclei of duodenal enterocytes                       | area/μm <sup>2</sup> | 24.29 ± 0.77     | 26.33 ± 0.95     | 25.14 ± 1.10     | 23.81 ± 1.17     | 23.27 ± 0.74     | 19.86 ± 0.85     |
| Skin epithelial cells                                | diameter/μm          | 6.48 ± 0.17      | 6.78 ± 0.06      | 6.83 ± 0.11      | 6.62 ± 0.17      | 6.27 ± 0.15      | 6.68 ± 0.14      |
| Nuclei of skin epithelial cells                      | area/μm <sup>2</sup> | 25.85 ± 4.26     | 22.58 ± 1.75     | 33.21 ± 3.72     | 21.97 ± 2.63     | 19.29 ± 2.18     | 23.67 ± 2.54     |
| Tracheal chondrocytes                                | area/μm <sup>2</sup> | 158.70 ± 5.28    | 175.93 ± 3.59    | 191.02 ± 12.80   | 175.18 ± 10.18   | 165.12 ± 8.22    | 153.80 ± 7.65    |
| Nuclei of tracheal chondrocytes                      | area/μm <sup>2</sup> | 14.67 ± 0.74     | 13.66 ± 0.47     | 17.16 ± 1.44     | 14.74 ± 0.58     | 12.83 ± 0.96     | 12.90 ± 0.79     |