|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Experiment | Phenotype measure | Transform to Gaussian | *ntotal* | *nmale* |
| Activity in new home cage | Total beam breaks due to ambulation | x1/2 | 1905 | 981 |
| Adrenal gland weight | Mean weight of adrenal glands (g) | log10x | 1863 | 960 |
| Context freezing | Time freezing to context (sec) | x1/2 | 1374 | 723 |
| Cue freezing | Time freezing during cue (sec) | x | 1518 | 802 |
| Elevated plus maze | Closed-arm distance (cm) | x | 1850 | 960 |
|  | Open-arm distance (cm) | x1/3 | 1882 | 975 |
| Fear-potentiated startle | Startle response | x1/3 | 1642 | 851 |
| Faecal steroid | Corticosterone (ng/50 mg of faeces) | log10x | 1090 | 560 |
| KI-67 | KI-67 antigen | x | 715 | 381 |
| Open field test | Fecal boli count | x | 1925 | 993 |
| Animal size | Body weight (g) | x1/3 | 1873 | 959 |
|  | Body length (cm) | x | 1885 | 988 |
|  | Body mass index | x | 1869 | 973 |
| Biochemistry | Albumin (g/L) | x | 1735 | 895 |
|  | Alkaline phosphatase (units/L) | x1/2 | 1752 | 904 |
|  | Alanine transaminase (units/L) | log10(x + 3) | 1651 | 863 |
|  | Aspartate transaminase (units/L) | x-1/2 | 1690 | 886 |
|  | Calcium (mM) | x | 1740 | 894 |
|  | Chloride (mM) | x | 1791 | 921 |
|  | Creatinine (mg/dL) | rank of x | 1929 | 996 |
|  | High-density lipoproteins (mM) | x | 1653 | 850 |
|  | Low-density lipoproteins (mM) | log10x | 1701 | 877 |
|  | Phosphorous (mM) | log10(x + 1) | 1536 | 793 |
|  | Total protein (g/L) | x2 | 1629 | 824 |
|  | Triglycerides (mM) | log10x | 1503 | 841 |
|  | Urea (mM) | log10(x + 1) | 1732 | 888 |
| IPGTT | Area Under Curve – Glucose (mg/dL) | x | 1771 | 929 |
|  | Area Under Curve – Insulin (ng/mL) | x1/2 | 1379 | 708 |
|  | Glucose at 0 min (mg/dL) | x1/2 | 1849 | 952 |
|  | Glucose at 75 min (mg/dL) | x1/2 | 1784 | 935 |
| Ear punch | Mean area of hole in ear (mm2) | x-1/2 | 1823 | 942 |
| Full blood count | Basophil count | rank of x | 1929 | 996 |
|  | Hematocrit (%) | x3 | 1583 | 819 |
|  | Hemoglobin (g/dl) | x3 | 1580 | 816 |
|  | Lymphocytes (1000/mm3) | x1/2 | 1554 | 812 |
|  | Mean cellular hemoglobin (g/dL) | x | 1581 | 818 |
|  | Mean cellular volume (um3) | x | 1585 | 821 |
|  | Mean platelet volume (um3) | rank of x | 1929 | 996 |
|  | Monocyte count | rank of x | 1929 | 996 |
|  | Neutrophil count | rank of x | 1929 | 996 |
|  | Plateletcrit (%) | x1/2 | 1552 | 803 |
|  | Platelets (units/microL) | x | 1574 | 814 |
|  | RBC count (1000000/mm3) | x3 | 1580 | 817 |
|  | WBC count (1000/mm3) | log10(x + 1) | 1563 | 816 |
| Immunology | B220+ cells (%) | x1/2 | 1516 | 784 |
|  | CD3+ cells in lymphocytes (%) | x2 | 1515 | 782 |
|  | CD4+ cells in CD3+ cells (%) | x2 | 1514 | 784 |
|  | CD4+ cell intensity | x2 | 1513 | 784 |
|  | CD4+ count | x | 1269 | 673 |
|  | CD8+ cells in CD3+ cells (%) | x-1/3 | 1512 | 782 |
|  | CD8+ cell intensity | x | 1509 | 782 |
|  | CD8+ count | x | 1267 | 671 |
|  | CD4+:CD8+ ratio | x-1/3 | 1510 | 781 |
| Plethysmography | Respiratory rate (baseline) | x | 1812 | 950 |
|  | Tidal volume (baseline) (mL) | x1/3 | 1801 | 939 |