|  |  |  |  |
| --- | --- | --- | --- |
|  | TRP | KYN | 3HK |
| *Bone biomechanics* |
| Stiffness | r = 0.254NS | r = 0.155NS | r = 0.030NS |
| Yield load | r = 0.372NS | r = 0.351NS | r = 0.098NS |
| Displacement at the yield load | r = 0.152NS | r = 0.047NS | r = 0.003NS |
| Ultimate load | r = 0.123NS | r = 0.423NS | r = 0.199NS |
| Displacement at the ultimate load | r = -0.319NS | r = -0.135NS | r = 0.024NS |
| Work to fracture | r = -0.185NS | r = -0.102NS | r = -0.190NS |
| *Bone geometry* |
| Tibial weight | r = 0.287NS | r = 0.295NS | r = 0.185NS |
| Tibial length | r = 0.154NS | r = 0.149NS | r = 0.193NS |
| Anterior-posterior periosteal diameter | r = 0.287NS | r = -0.193NS | r = 0.160NS |
| Medial-lateral periosteal diameter | r = 0.086NS | r = 0.514p = 0.029 | r = 0.294NS |
| Anterior-posterior endosteal diameter | r = 0.223NS | r = -0.419NS | r = -0.172NS |
| Medial-lateral endosteal diameter | r = 0.384NS | r = -0.154NS | r = -0.167NS |
| Wall thickness | r = 0.182NS | r = 0.318NS | r = 0.108NS |
| Cortical index | r = -0.168NS | r = 0.315NS | r = 0.229NS |
| Cross-sectional area | r = 0.291NS | r = 0.118NS | r = 0.034NS |
| Cross-sectional moment of inertia | r = 0.372NS | r = -0.067NS | r = 0.003NS |
| Mean relative wall thickness | r = -0.072NS | r = 0.388NS | r = 0.290NS |
| *Bone mass density* |
| Archimedes’ density | r = 0.158NS | r = 0.048NS | r = 0.216NS |

**Table S1.** The association between tryptophan (TRP), kynurenine (KYN), and 3-hydroxykynurenine (3HK) concentrations in the cerebellum and bone properties in 5/6 Nx rats.

NS, not significant.