**Table S5.** The association between tryptophan (TRP), kynurenine (KYN), and 3-hydroxykynurenine (3HK) concentrations in the striatum and bone properties in 5/6 Nx rats.

|  |  |  |  |
| --- | --- | --- | --- |
|  | TRP | KYN | 3HK |
| *Bone biomechanics* |
| Stiffness | r = 0.490p = 0.039 | r = -0.003NS | r = 0.320NS |
| Yield load | r = 0.517p = 0.028 | r = 0.255NS | r = 0.148NS |
| Displacement at the yield load | r = -0.052NS | r = 0.134NS | r = -0.303NS |
| Ultimate load | r = 0.385NS | r = 0.197NS | r = 0.195NS |
| Displacement at the ultimate load | r = -0.284NS | r = -0.177NS | r = 0.338NS |
| Work to fracture | r = 0.052NS | r = -0.325NS | r = 0.483p = 0.042 |
| *Bone geometry* |
| Tibial weight | r = 0.585p = 0.011 | r = 0.272NS | r = 0.114NS |
| Tibial length | r = 0.435NS | r = 0.288NS | r = 0.205NS |
| Anterior-posterior periosteal diameter | r = 0.458NS | r = 0.178NS | r = 0.228NS |
| Medial-lateral periosteal diameter | r = 0.282NS | r = 0.368NS | r = 0.047NS |
| Anterior-posterior endosteal diameter | r = 0.329NS | r = -0.091NS | r = 0.253NS |
| Medial-lateral endosteal diameter | r = 0.471p = 0.048 | r = -0.081NS | r = -0.002NS |
| Wall thickness | r = 0.302NS | r = 0.011NS | r = 0.034NS |
| Cortical index | r = -0.113NS | r = 0.051NS | r = -0.086NS |
| Cross-sectional area | r = 0.449NS | r = -0.075NS | r = -0.007NS |
| Cross-sectional moment of inertia | r = 0.701p = 0.001 | r = -0.038NS | r = 0.238NS |
| Mean relative wall thickness | r = -0.073NS | r = 0.141NS | r = -0.199NS |
| *Bone mass density* |
| Archimedes’ density | r = 0.302NS | r = 0.110NS | r = 0.230NS |

NS, not significant.