**Table S3.** The association between tryptophan (TRP), kynurenine (KYN), and 3-hydroxykynurenine (3HK) concentrations in the frontal cortex and bone properties in 5/6 Nx rats.

|  |  |  |  |
| --- | --- | --- | --- |
|  | TRP | KYN | 3HK |
| *Bone biomechanics* |
| Stiffness | r = 0.366NS | r = 0.391NS | r = 0.412NS |
| Yield load | r = 0.315NS | r = 0.432NS | r = 0.338NS |
| Displacement at the yield load | r = 0.001NS | r = -0.107NS | r = -0.053NS |
| Ultimate load | r = 0.203NS | r = 0.542p = 0.020 | r = 0.203NS |
| Displacement at the ultimate load | r = 0.263NS | r = -0.057NS | r = -0.577p = 0.012 |
| Work to fracture | r = 0.386NS | r = 0.153NS | r = -0.206NS |
| *Bone geometry* |
| Tibial weight | r = 0.091NS | r = 0.474p = 0.047 | r = 0.338NS |
| Tibial length | r = 0.166NS | r = 0.492p = 0.038 | r = 0.321NS |
| Anterior-posterior periosteal diameter | r = 0.174NS | r = 0.021NS | r = 0.198NS |
| Medial-lateral periosteal diameter | r = 0.128NS | r = 0.641p = 0.004 | r = 0.324NS |
| Anterior-posterior endosteal diameter | r = -0.165NS | r = -0.255NS | r = 0.052NS |
| Medial-lateral endosteal diameter | r = -0.152NS | r = 0.045NS | r = 0.487p = 0.040 |
| Wall thickness | r = 0.569p = 0.014 | r = 0.571p = 0.013 | r = 0.027NS |
| Cortical index | r = 0.350NS | r = 0.324NS | r = -0.196NS |
| Cross-sectional area | r = 0.536p = 0.022 | r = 0.492p = 0.038 | r = 0.335NS |
| Cross-sectional moment of inertia | r = 0.414NS | r = 0.368NS | r = 0.315NS |
| Mean relative wall thickness | r = 0.455NS | r = 0.509p = 0.031 | r = -0.028NS |
| *Bone mass density* |
| Archimedes’ density | r = 0.207NS | r = 0.461NS | r = 0.538p = 0.021 |

NS, not significant.