**Supplementary Table 3**

**Trabecular bone**

|  |  |  |
| --- | --- | --- |
| **Parameters** | **Control** | **BEZ235** **45 mg/kg/day** |
| **TV** | 0.79 ± 0.07 | 0.93 ± 0.06 |
| **BV** | 0.21 ± 0.01 | 0.25 ± 0.02 |
| **BV/TV** | 26.69 ± 0.79 | 26.83 ± 1.34 |
| **TS** | 6.52 ± 0.3 | 7.45 ± 0.33 |
| **BS** | 11.02 ± 0.82 | 12.44 ± 0.84 |
| **BS/BV** | 45.04 ± 1.01 | 50.76 ± 1.25 |
| **BS/TV** | 14.13 ± 0.3 | 13.51 ± 0.38 |
| **Tb.Th** | 0.07 ± 0.002 | 0.08 ± 0.002 |
| **Tb.N** | 3.75 ± 0.06 | 3.56 ± 0.10 |
| **Tb.Sp** | 0.14 ± 0.003 | 0.15 ± 0.004 |

**Cortical Bone**

|  |  |  |
| --- | --- | --- |
| **Parameters** | **Control** | **BEZ235** **45 mg/kg/day** |
| **TV (mm3)** | 7.14 ± 0.26 | 6.73 ± 0.12 |
| **BV (mm3)** | 4.87 ± 0.24 | 4.51 ± 0.12 |
| **BV/TV (**%) | 68.00 ± 0.90 | 67.00 ± 0.57 |
| **TS (mm2)** | 55.32 ± 0.69 | 55.31 ± 0.62 |
| **BS (mm2)** | 57.21 ± 1.21 | 57.86 ± 0.75 |
| **BS/BV (mm-1)** | 11.86 ± 0.41 | 12.87 ± 0.28 |
| **BS/TV (mm-1)** | 8.05 ± 0.17 | 8.61 ± 0.12\* |
| **CTh(mm)** | 0.24 ± 0.01 | 0.22 ± 0.005\* |

**Histomorphometric parameters of contralateral trabecular and cortical bone in MOS-J osteoblastic osteosarcoma model (C57Nl/6J mice):** TV (tissue volume, mm3). BV (bone volume, mm3). BV/TV (percent of bone volume, %). TS (tissue surface, mm2). BS (bone surface. mm2). BS/BV (bone surface/bone volume ratio, mm-1). BS/TV (bone surface density. mm-1).CTh (cortical thickness, mm). TbTh (trabecular thickness, mm). TbN (trabecular number). TbSp (trabecular spaces, mm). \*P<0.05 compared to the control group.