

Table 3

Comparisons with other measured quantities for the human body.

Description (abbreviation)	Osteocytes/bone	Other organs
Total tissue volume	1.75 L of bone tissue	1.2 L of brain tissue
Total number of cells	42 billion osteocytes	86 billion neurons [39]
Total dendritic process length (Tt.DP.L)	175,000 km	150,000–180,000 km (brain) [40]
Total number of osteocyte connections (Tt.N.Ot.Cx)	23 trillion	150 trillion neural cortex synapses
Total lacuno-canalicular system surface area (Tt.LCN.S)	215 m ²	118 m ² (Lung) [62] 32 m ² (Gastrointestinal tract) [63] 2 m ² (Skin) [64]

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