Bone-loss discovery points to potential treatment for osteoporosis, rheumatoid arthritis
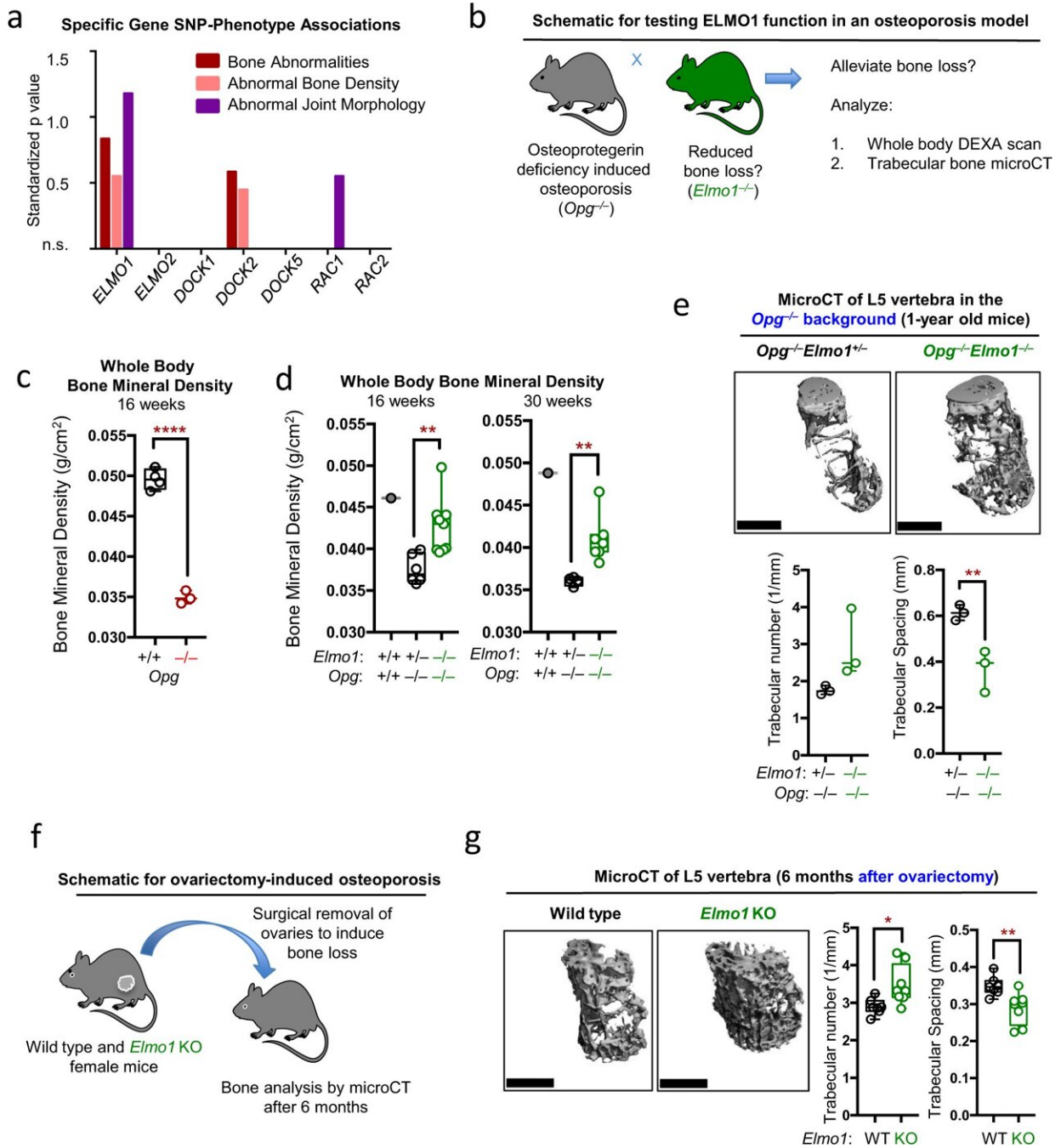
September 22 2021, by Josh Barney

Fig. 1: Elmo1$^{-/-}$ mice have reduced bone erosion in two models of osteoporosis. a Single-nucleotide polymorphisms (SNP)-disease and phenotype associations discovered via search of the GWASdb SNP-Disease and six other SNP-phenotype association databases. The data are plotted using a standardized p value. Databases used and specific SNPs are indicated in Supplementary Table 1. b Schematic for testing ELMO1 function in alleviating bone loss caused by

osteoprotegerin (OPG) deficiency. c Whole-body bone mineral density in wild type (black, n = 4) and Opg$^{-/-}$ (red, n = 3) mice measured by DEXA scanning. Each symbol represents a mouse. Data are presented in a Box and Whiskers format with the box indicating 25th–75th percentile, all data points shown and median indicated. ****p

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