

Supplementary Materials: Loss of Stromal Galectin-1 Enhances Multiple Myeloma Development: Emphasis on a Role in Osteoclasts

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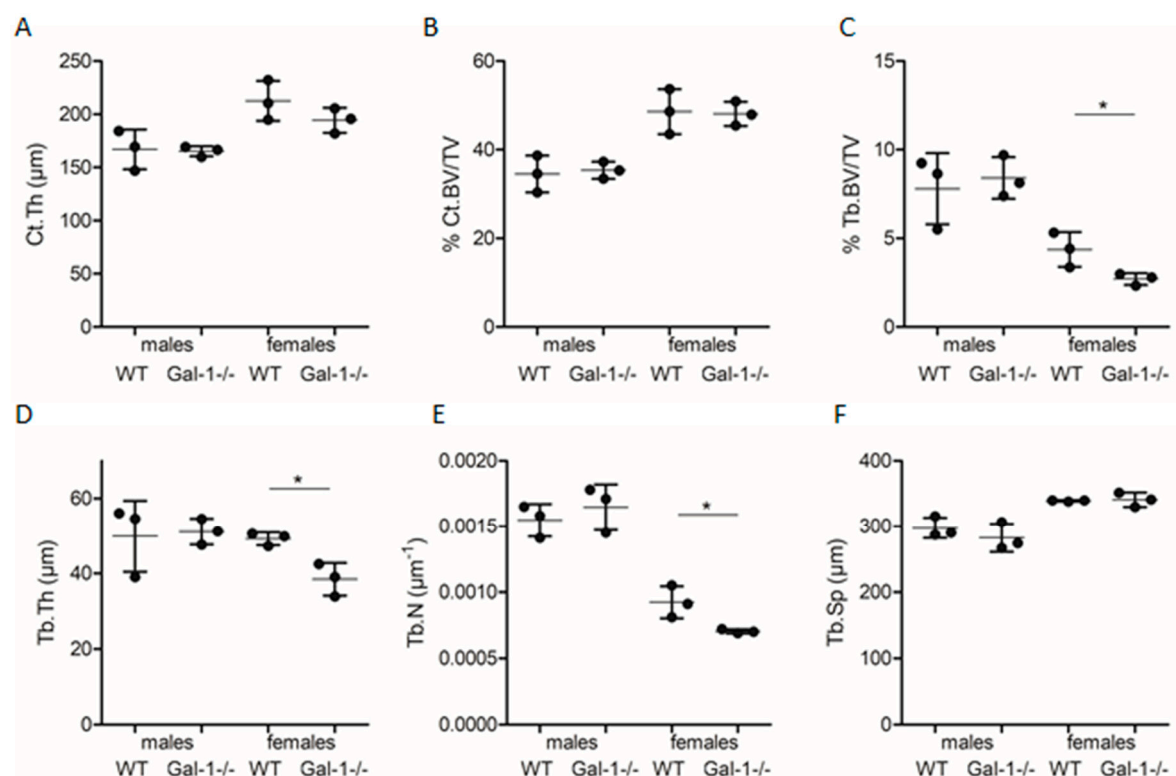


Figure S1. Bone μ CT analysis of C57BL/6 WT and gal-1^{-/-} MM-bearing mice. (A) Cortical thickness (B) Cortical bone volume (C) Trabecular bone volume (D) Trabecular thickness (E) Trabecular number (F) Trabecular separation. Data shown are the mean \pm standard error of three mice, and all results shown are representative of three independent experiments. * $p < 0.05$.

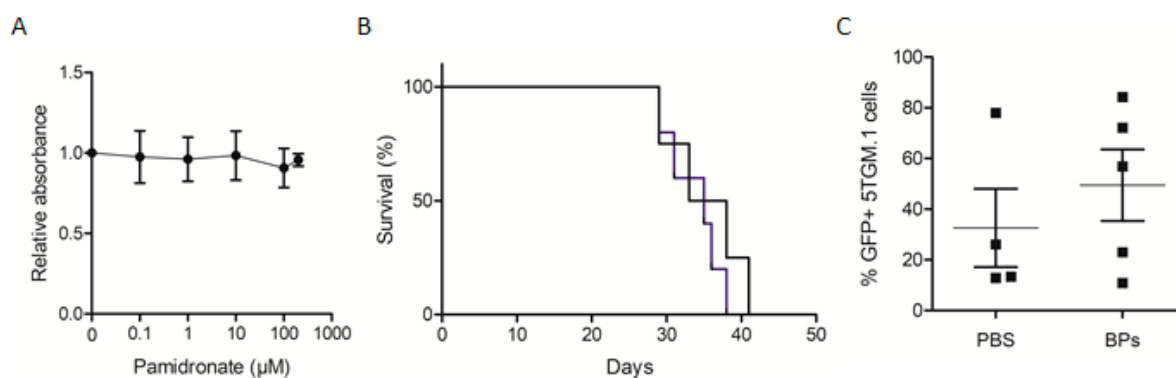


Figure S2. Pamidronate treatment of C57BL/6 gal-1^{-/-} MM-bearing mice. (A) Proliferation assay of pamidronate on 5TGM.1 cells. (B) Survival curve of gal-1^{-/-} MM-bearing mice treated with BPs (blue line) vs. PBS (black line). (C) 5TGM.1 GFP+ bone marrow infiltration of PBS/BPs gal-1^{-/-} MM-bearing mice. Data (in A and C) are represented as mean \pm standard error. All results shown are representative of three ($n = 3$) independent experiments.

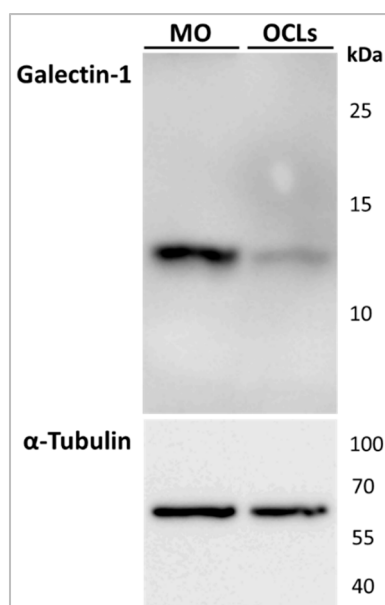


Figure S3. Western blotting analysis of galectin-1 in monocytes (MO) and osteoclasts (OCLs). Galectin-1 monomer expected around 14kDa; α -tubulin, used as an endogenous control, expected around 55kDa. One representative western blot out of three ($n = 3$) independent experiments is shown.

Table S1. Real-time primer sequences.

Gene	Forward	Reverse
<i>Galectin-1</i>	TGTGTGTAACACCAAGGAAGAT	ACCTCTGTGATGCTCCCG
Osteoclast function		
<i>NFATc1</i>	TGAGGCTGGTCTCCGAGTT	CGCTGGGAACACTCGATAGG
<i>Cathepsin K</i>	CAGCAGAGGTGTGTAATG	GCGTTGTCTTATTCCGAGC
<i>TRAP</i>	TCCTGGCTCAAAAAGCAGTT	ACATAGCCCACACCGTTCTC
<i>Calcitonin R</i>	CTTCCATGCTGATCTTCTGG	CAGATCTCCATTGGGCACAA
<i>Integrin α</i>	GGCCTATTGTTTCAGCACAT	GATTCCACAGCCCAAAGTGT
<i>Integrin β3</i>	GTAATCGAGATGCCCCAGAG	CTTCCATCCAGGGCAATATG
References		
<i>β-actin</i>	TCTGGCTCCTAGCACCATG	AAAACGCAGCTCAGTAACAG
<i>β2MG</i>	GCTACGTAACACAGTTCCAC	TGATGCTTGATCACATGTCTCG



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