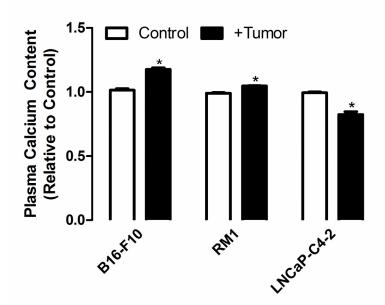
SUPPLEMENTARY MATERIAL

	C57BL/6	RM1	B16-F10	NOD/SCID	LNCaP-C4-2
BV/TV	0.081±0.003	0.148±0.013	0.124±0.002	0.064 ± 0.007	0.094±0.010
		<i>p</i> <0.005	<i>p</i> <0.005		<i>p</i> =0.028
Tb.Th (um)	45.85±0.139	50.34±0.396	50.23±0.390	47.88±0.917	51.09±0.824
		<i>p</i> <0.005	<i>p</i> <0.005		<i>p</i> =0.027
Tb.Sp (um)	191.35±9.00	141.26±5.27	160.69±4.93	168.58±3.13	147.12±6.47
		<i>p</i> <0.005	<i>p</i> =0.038		<i>p</i> =0.020
Tb.N (1/mm)	1.77±0.066	3.19±0.115	2.47±0.056	1.46±0.020	1.97±0.196
		<i>p</i> <0.005	<i>p</i> =0.005		<i>p</i> =0.031
$BSA (mm^2)$	10.06±0.631	14.34±1.33	14.99±0.126	3.77±0.406	5.67±0.700
		<i>p</i> <0.005	<i>p</i> =0.006		<i>p</i> =0.028

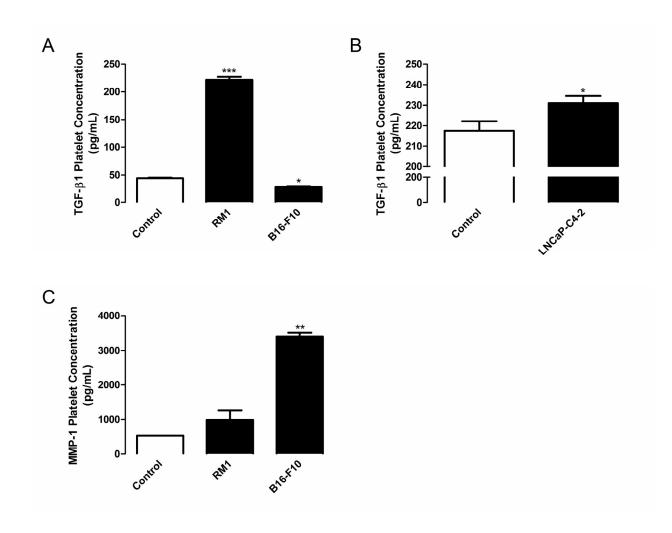
Supplementary Table 1. Bone Structural Indices at the Final Scan Time Point. Tumor cells were implanted subcutaneously into male mice: B16-F10 murine melanoma $(2x10^6 \text{ cells in } C57BL/6 \text{ mice}, 9 \text{ wks of age})$, RM1 murine prostate cancer $(4x10^5 \text{ cells in } C57BL/6 \text{ mice}, 9 \text{ wks of age})$, and LNCaP-C4-2 human prostate cancer $(4x10^5 \text{ cells encapsulated in matrigel in NOD/SCID mice, 8 wks of age})$. Corresponding control mice were injected with PBS (for C57BL/6 mice) or matrigel (NOD/SCID mice). Tibial bones were scanned using microCT upon experimental termination *ex vivo*: 9 days (B16-F10), 12 days (RM1), or 19 days (LNCaP-C4-2) after tumor implantation. Bone morphometric changes were measured using a GE eXplore Locus MicroCT scanner with 360 X-ray projections collected at 1° increments and projected images reconstructed into 3D volumes at 20µm resolution as previously described for bone volume: total volume ratio (BV/TV), bone surface area (BSA), average trabecular thickness (Tb.Th), average trabecular spacing (Tb.Sp) and average trabecular number (Tb.N). Values are represented as mean \pm SEM (*n*=5). Statistics shown are vs. C57BL/6 or NOD/SCID control mice by paired Student's *t* test.

	Control	Tumor Alone	Tumor +	Tumor +
			Platelet	Platelet
			Depletion	Infusion
BV/TV	0.077 ± 0.004	0.116±0.008	0.082±0.005	0.121±0.012
		<i>p</i> =0.005	<i>p</i> =0.56	<i>p</i> =0.01
Tb.Th (um)	45.63±0.118	50.22±0.390	47.04±0.489	50.01±1.45
		<i>p</i> <0.005	<i>p</i> =0.02	<i>p</i> =0.006
Tb.Sp (um)	191.35±8.99	159.29±1.42	183.04±2.24	165.05±2.57
		<i>p</i> =0.02	<i>p</i> =0.35	<i>p</i> =0.02
Tb.N (1/mm)	1.69±0.089	2.41±0.067	1.73±0.117	2.45±0.181
		<i>p</i> <0.005	<i>p</i> =0.79	<i>p</i> =0.009
$BSA (mm^2)$	8.87±1.29	14.25±0.744	10.27±0.759	14.38±0.767
		<i>p</i> =0.02	<i>p</i> =0.413	<i>p</i> =0.01

Supplementary Table 2. Bone Structural Indices at the Final Scan Time Point. B16-F10 $(2x10^6)$ tumor cells were implanted subcutaneously in 9 wk old C57BL/6 mice. Control mice were injected with PBS. After tumor implantation, mice were treated with rat anti-mouse GPIba (PLT Depletion) or rat IgG (Tumor Alone and Control) (2 µg/g body weight, each, Emfret Analytics, Eibelstadt, Germany) by tail vein injection. Injections were repeated every 3 days. Platelets (~3x10⁹) from two donor mice in resuspension buffer were injected into a single recipient WT mouse just prior to B16-F10 implantation via the tail vein. Platelet infusion was repeated every 5 days until experimental termination. Tibial bones were measured using microCT 9 days after tumor implantation *ex vivo*. Bone morphometric changes were measured using a GE eXplore Locus MicroCT scanner with 360 X-ray projections collected at 1^o increments and projected images reconstructed into 3D volumes at 20µm resolution for bone volume: total volume ratio (BV/TV), bone surface area (BSA), average trabecular thickness (Tb.Th), average trabecular spacing (Tb.Sp) and average trabecular number (Tb.N). Values are represented as mean ± SEM (*n*=4). Statistics shown are vs. control samples by paired Student's *t* test.



Supplemental Figure 1. Calcium levels in the plasma of mice bearing tumors. Plasma was isolated from control injected mice or mice bearing RM1, B16-F10 or LNCaP-C4-2 tumors upon experimental termination and subjected to a StanBio Total Calcium LiquiColor Procedure No. 0150 Assay (Boerne, TX) to measure the concentration of calcium represented as mean \pm SEM (*n*=2-3). * p<0.05, * p<0.01, and *** p<0.005 vs. control by unpaired Student's *t* test.



Supplemental Figure 2. MMP-1 and TGF- β 1 levels are increased in the platelets of mice bearing tumors. Platelet releasates were isolated from control injected mice or mice bearing RM1, B16-F10 or LNCaP-C4-2 tumors upon experimental termination (B16-F10: 9 days; RM1: 12 days; LNCaP-C4-2: 19 days) and subjected to (A and B) Invitrogen Multi-Species TGF- β 1 ELISA (Camarillo, CA) or (C) MyBioSource Mouse MMP-1 ELISA (San Diego, CA) assays to measure the concentration of proteins represented as mean ± SEM (*n*=2-3) . * p<0.05, * p<0.01, and *** p<0.005 vs. control by unpaired Student's *t* test.