

**Table 1.** Pre-clinical applications of ultrasound molecular imaging

Application	Animal model	Molecular target	Imaging mode	Adherent microbubble isolation	Dose (Microbubbles per animal)	Reference
Angiogenesis	Mouse, tumor	VEGFR2	B-mode	Pre-burst minus post-burst	$3.8 \times 10^7$	[20]
Angiogenesis	Mouse, tumor	VEGFR2, $\alpha_v\beta_3$	B-mode	Pre-burst minus post-burst	$5 \times 10^7$	[21]
Angiogenesis	Mouse, tumor	VEGFR2	CPS	Fast dwell-time based method	$5 \times 10^7$	[12]
Angiogenesis	Mouse, tumor	E-selectin	B-mode	Pre-burst minus post-burst	$1 \times 10^6$	[22]
Cancer	Mouse, mammary glands	VEGFR2	CPS	Pre-burst minus post-burst	$5 \times 10^7$	[1]
Cancer	Mouse, pancreas	VEGFR2	Contrast mode	Pre-burst minus post-burst	$5 \times 10^7$	[2]
Inflammation	Rat, heart	ICAM-1	Contrast mode	Pre-burst minus post-burst	$2.5 \times 10^6$	[10]
Inflammation	Rat, heart	Selectins	CPS	Pre-burst minus post-burst	$5 \times 10^6$	[23]
Inflammation	Mouse, heart	P-selectin	CPS	Pre-burst minus post-burst	$1 \times 10^6$	[3]
Atherosclerosis	Mouse, thoracic aorta	VCAM-1	CPS	Pre-burst minus post-burst	$1 \times 10^6$	[4]
Atherosclerosis	Mouse, thoracic aorta	P-selectin, VCAM-1	CPS	Pre-burst minus post-burst	$1 \times 10^6$	[5]

**Table 2.** Overview of microbubble doses used in this study

Microbubbles per mouse	Mouse body weight (g)	Microbubbles per mouse body weight (g)	Phosphatidylcholine (ng) per mouse body weight (g)
$5 \times 10^4$	$28.3 \pm 1.4$	$(1.7 \pm 0.1) \times 10^3$	$(5.3 \pm 0.1) \times 10^{-2}$
$2 \times 10^5$	$28.6 \pm 1.9$	$(7.0 \pm 0.4) \times 10^3$	$(2.1 \pm 0.1) \times 10^{-1}$
$1 \times 10^7$	$29.7 \pm 1.8$	$(3.4 \pm 0.2) \times 10^5$	$(1.0 \pm 0.1) \times 10^1$