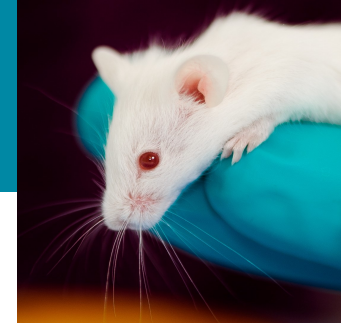


ALZET RESEARCH SUMMARY — Xenograft Models



ALZET® Osmotic Pumps are small, implantable pumps for reliable, convenient and cost effective dosing of unrestrained laboratory animals, including mice and young rats. ALZET pumps have been used successfully in preclinical research, as documented in nearly 21,000 publications. The table below summarizes recent research on the use of ALZET pumps in various xenograft models. For additional references, please contact ALZET Technical Services.

Cancer Model	Cell Line	Mouse/Rat Strain	Agent	Pump	Route	Duration	Citation
Glioblastoma; Lung Cancer	SB28; 344SQ	C57BL/6J; 129S2/SvPasCrl	Auranofin	1002	SC	14 days	L. Freire Boullosa <i>et al.</i> <i>Pharmaceutics</i> . 2022;14(12):2761
Prostate Cancer	PC3	Crl:NU-Foxn1nu	Glycerol	2004	SC	32 days	A. DeGuzman <i>et al.</i> <i>BMC Res Notes</i> . 2022;15(1):101-105
Leukemia	P12-ICHIKAWA	NBSGW	DW0254	2001	SC	7 days	S. Canovas Nunes <i>et al.</i> <i>Blood Cancer J</i> . 2022;12(4):64-78
Oral Squamous Cell Carcinoma	HSC-3	BALB/cAJcl-nu	Mannitol	1004	SC	28 days	S. Yoshimoto <i>et al.</i> <i>Lab Invest</i> . 2021;101(1):38-50
Colon Cancer	CT-26	BALB/c nude	Bisphenol A	1004	SC	28 days	J.H. Jun <i>et al.</i> <i>Food Chem Toxicol</i> . 2021;158:112662
Glioblastoma	GL261	C57BL/6J	Doxorubicin	1002	Brain	14 days	M.A. Harris <i>et al.</i> <i>Sci Adv</i> . 2021;7(49):eabl5872
Rhabdoid Tumors	G401	NU-Foxn1nu	Mithramycin	1003D	SC	3 days	M.H. Chasse <i>et al.</i> <i>EMBO Mol Med</i> . 2021;13(2):e12640
Breast Cancer	MDA-MB-468	Athymic nu/nu	SMI-6	1004	SC	3 weeks	D.C. Borcharding <i>et al.</i> <i>Cancers</i> . 2021;13(11):2662
Oral Squamous Cell Carcinoma	SCC25; Cal27	Nude Mice	Norepinephrine; ICI-118,551	1004	SC	3 weeks	B. Zhang <i>et al.</i> <i>Arch Oral Biol</i> . 2020;113:104712

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