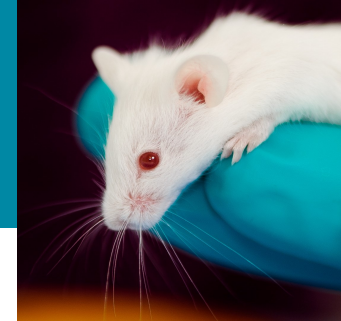


ALZET RESEARCH SUMMARY — CNS (Mice)



ALZET® Osmotic Pumps are a reliable, convenient and cost effective method for continuous dosing of unrestrained laboratory animals, including mice and young rats. These small, implantable pumps are an effective tool for continuous administration to CNS targets. In fact, the ALZET bibliography contains over **1156 publications** on this research application. The table below summarizes examples of recent research using ALZET pumps for CNS infusion to mice. For additional references, please contact ALZET Technical Services.

Agent	Vehicle	Duration	Pump Model	Target	Citation
Pleiotrophin	Saline	2 weeks	1002	Hippocampus	C. Tang & W. Guo STAR Protoc. 2021;2(1):100374
Apelin-36	Saline	7 days	1007D	Substantia Nigra	J. Zhu <i>et al.</i> Brain Res. 2020;1726:146493
Phosphate, sphingosine-1	CSF, artificial	28 days	2006	Subarachnoid Space	H. Tanaka <i>et al.</i> Nat Commun. 2020;11(1):507
MK801; TrkB-Fc	Saline	11 days	1004	Intrathecal	J. Li <i>et al.</i> Neurotherapeutics. 2020;17(3):1016-1030
Cholesterol, methyl- β -cyclodextrin balanced	CSF, artificial	28 days	1004	Corpus Striatum	G. Birolini <i>et al.</i> EMBO Mol Med. 2020;12(10):e12519
SB225002	DMSO	7, 14 days	2001; 2002	Parenchyma	G. Acker <i>et al.</i> Eur J Cancer. 2020;126:106-115
Melanotan	PBS	14 days	1002	Paraventricular Nucleus of Hypothalamus	B. P. Tooke, <i>et al.</i> Mol Metab 2019;20:194-204
Ghrelin; JMV2959	Saline	28 days	1004	Dorsomedial Hypothalamus	L. Hyland <i>et al.</i> Physiol Behav. 2020;220:112882
Immunotoxin, 9.2.27-PE38KDEL; ABT-737	PBS; Captisol; Mouse Serum Albumin	3 days	1007D	Intracranial Tumor	X. Yu <i>et al.</i> PLoS One. 2019;14(1):e0210608
Smoothened Agonist	Saline	7 days	1007D	Cortex	R. V. Allahyari <i>et al.</i> Sci Rep 2019;9(1):565

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