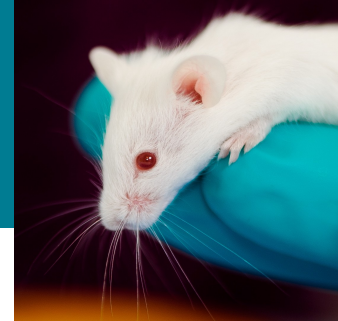


ALZET RESEARCH SUMMARY — CNS (Mice)



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 **1000 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
SRT2104 (Sirtuin-1 Agonist)	β-Cyclodextrin	12 days	1002	Hippocampus	C.M. Duan, <i>et al.</i> Behav Brain Res 2020;378:112296
9.2.27-PE38KDEL Immunotoxin; ABT-737 (Bcl-2 Inhibitor)	PBS; Captisol; Mouse Serum Albumin	3 days	1007D	Tumor	X. Yu, <i>et al.</i> PLoS One 2019;14(1):e0210608
mut-proBDNF, Recombinant Mouse	PBS	5 days	1007	Primary Visual Cortex	E. Baho, <i>et al.</i> J Neurosci. 2019;39(23):4489-4510
Platelet Factor 4	PBS; Bovine Serum Albumin	7 days	1007D	Hilar Region of Hippocampus	O. Leiter, <i>et al.</i> Stem Cell Reports 2019;12(4):667-679
Melanotan	PBS	14 days	1002	Paraventricular Nucleus of Hypothalamus	B.P. Tooke, <i>et al.</i> Mol Metab 2019;20:194-204
Apelin-F13A; Anti-VEGFR2 Antibody	Artificial CSF	14, 28 days	1002; 2004	Tumor	G. Mastrella, <i>et al.</i> Cancer Res 2019;79(9):2298-2313
O-1602	Artificial CSF; Ethanol	14 days	1002	Hippocampus	J.D. Hill, <i>et al.</i> Brain Behav Immun 2019;76:165-181
GP120; tat	Artificial CSF	14 days	1002	Hippocampus	J.D. Hill, <i>et al.</i> J Neuroimmune Pharmacol 2019;14(3):375-382
Smoothened Agonist	Saline	7 days	1007D	Cortex	R.V. Allahyari, <i>et al.</i> Sci Rep 2019;9(1):565

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