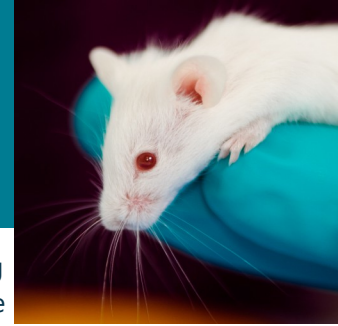


ALZET RESEARCH SUMMARY — ICV Infusion



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 intracerebroventricular (ICV) administration. In fact, the ALZET bibliography contains over **3,800 publications** on this research application. The table below summarizes examples of recent research using ALZET pumps for ICV infusion in mice and rats. For additional references, please contact ALZET Technical Services.

Target	Species	Coordinates*	Depth	Cannula	Adhesive	Citation
Lateral Ventricle	Mice	0.2 mm posterior 0.8 mm lateral	2.5 mm	ALZET BIK 3	Cyanoacrylate	E. Minakova, <i>et al.</i> PLoS One 2019;14(1):e0210389
Lateral Ventricle	Mice	0.3 mm posterior 1.0 mm lateral	3.0 mm	ALZET BIK 3	Cyanoacrylate	S. Krishnamurthy, <i>et al.</i> J Clin Neurosci 2019;62:207-211
Third Ventricle	Mice	-1.0 mm anteroposterior to midline	3.0 mm	ALZET BIK 2	Cyanoacrylate	H. Jiang, <i>et al.</i> J Cell Physiol 2019;234(5):7062-7069
Lateral Ventricle	Mice Rat	0.5 mm posterior 1 mm lateral -1 mm posterior 1.5 mm lateral	Not Stated	ALZET BIK 3	Cyanoacrylate	V.V. Senatorov, <i>et al.</i> Sci Transl Med 2019;11(521):eaaw8283
Lateral Ventricle	Rat	1.0 mm caudal 1.4 mm lateral	Not Stated	ALZET BIK 2	Cyanoacrylate	N.R. Laferriere, <i>et al.</i> Neurotoxicology 2019;71:16-30
Lateral Ventricle	Rat	-1.0 mm anteroposterior 2.0 mm mediolateral	3.5-4.0 mm	ALZET BIK 2	Dental Cement	K. Farrell and J.D. Houle. J Neurotrauma 2019;36(21):2964-2976
Lateral Ventricle	Rat	1.2mm posterior -1.8mm laterolateral from sagittal suture	0.5 mm	ALZET BIK 2	Cyanoacrylate	T. Zera, <i>et al.</i> Auton Neurosci 2019;217:49-57

*All coordinates are relative to bregma to unless indicated otherwise

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