

Meningeal lymphatic vessels

In the [aging](#) process and central nervous system (CNS) diseases, the functions of the meningeal lymphatic [vessels](#) (MLVs) are impaired. Alterations in MLVs have been observed in aging-related [neurodegenerative diseases](#), [brain tumors](#), and even [cerebrovascular disease](#). These findings reveal a new perspective on aging and CNS [disorders](#) and provide a promising therapeutic target. Additionally, recent neuropathological studies have shown that MLVs exchange soluble components between the [cerebrospinal fluid](#) (CSF) and [interstitial fluid](#) (ISF) and drain [metabolites](#), cellular [debris](#), misfolded [proteins](#), and [immune cells](#) from the [CSF](#) into the deep cervical [lymph nodes](#) (dCLNs), directly connecting the brain with the peripheral circulation. Impairment and dysfunction of meningeal lymphatics can lead to the accumulation of toxic proteins in the brain, exacerbating the progression of neurological disorders. However, for many CNS diseases, the causal relationship between MLVs and neuropathological changes is not fully clear ¹⁾.

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Jiang H, Wei H, Zhou Y, Xiao X, Zhou C, Ji X. Overview of the meningeal lymphatic vessels in aging and central nervous system disorders. *Cell Biosci.* 2022 Dec 17;12(1):202. doi: 10.1186/s13578-022-00942-z. PMID: 36528776.

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