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### 书目

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**Introduction**

Alzheimer's disease (AD) is a progressive and neurodegenerative disorder of the brain characterized by a loss of memory and cognition, which is a common form of dementia among the elderly.<sup>1</sup> Acetylcholinesterase (AChE), one of the most essential enzymes

in the brain, is responsible for the breakdown of acetylcholine, which plays a key role in memory and cognition. It is clear that the deficiency of acetylcholine is associated with AD, therefore, one of the major therapeutic strategies for the treatment of AD is to inhibit the biological activity of AChE, and hence to increase the acetylcholine level in brain. Currently most of the drugs used in clinic for the treatment of AD are AChE inhibitors, such as donepezil and rivastigmine, which are proved to improve the situation of AD patients to some extent.

- 1 Lahiri, D. K., Farlow, M. T., et al., K. Current drug targets for Alzheimer's disease treatment. *Drug Develop Res* 56, 267-281, doi:10.1002/Ddr.10081 (2002).
- 2 Chen, C. L., et al. Identification of potential bladder cancer markers in urine by abundant-protein depletion coupled with quantitative proteomics. *Journal of proteomics* 85, 28-43, doi:10.1016/j.jprot.2013.04.024 (2013).

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