**Supplementary Table 1.** Literature search strategy for berberine in the treatment of AD

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| No. Search Items |
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| 1. Alzheimer Disease[Mesh] |
| 1. dementia[Title/Abstract] |
| 1. cognitive impairment[Title/Abstract] 2. β-amyloid peptide[Title/Abstract] 3. Tau protein[Title/Abstract] 4. amyloid plaques[Title/Abstract] 5. memory impairment[Title/Abstract] |
| 1. 1 OR 2 OR 3 OR 4 OR 5 OR 6 OR 7 |
| 1. Berberine[Mesh] |
| 1. Umbellatine[Title/Abstract] |
| 1. 9 OR 10 |
| 1. 8 AND 11 |