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Design, synthesis and evaluation of 2-arylethenyl-*N*-methylquinolinium derivatives as effective multifunctional agents for Alzheimer's disease treatment

Chun-Li Xia, Ning Wang, Qian-Liang Guo, Zhen-Quan Liu, Jia-Qiang Wu, Shi-Liang Huang, Tian-Miao Ou, Jia-Heng Tan, Hong-Gen Wang, Ding Li, Zhi-Shu Huang

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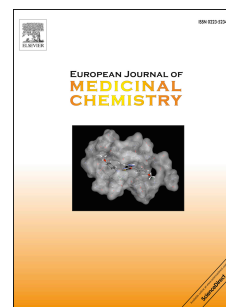
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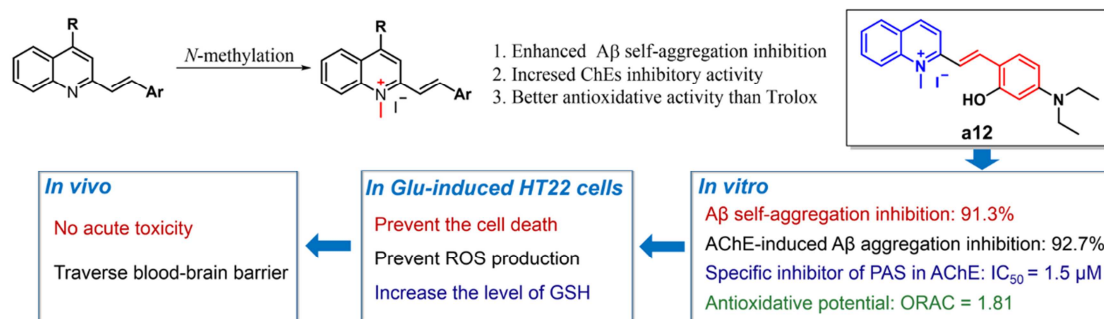
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Graphic Abstract

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A series of compounds with an introduction of methyl group into *N*¹-position to previous reported 2-arylethenylquinoline analogues were synthesized and evaluated. The optimal compound **a12** showed good anti-AD potential.

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