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PPAR $\gamma$  agonist pioglitazone improves cerebellar dysfunction at pre-A $\beta$  deposition stage in APPswe/PS1dE9 Alzheimer's disease model mice

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**PPAR $\gamma$  agonist pioglitazone improves cerebellar dysfunction at pre-A $\beta$  deposition stage in APP<sup>swe</sup>/PS1<sup>dE9</sup> Alzheimer's disease model mice**

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Running title: Pioglitazone for cerebellar phenotype of AD mice

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