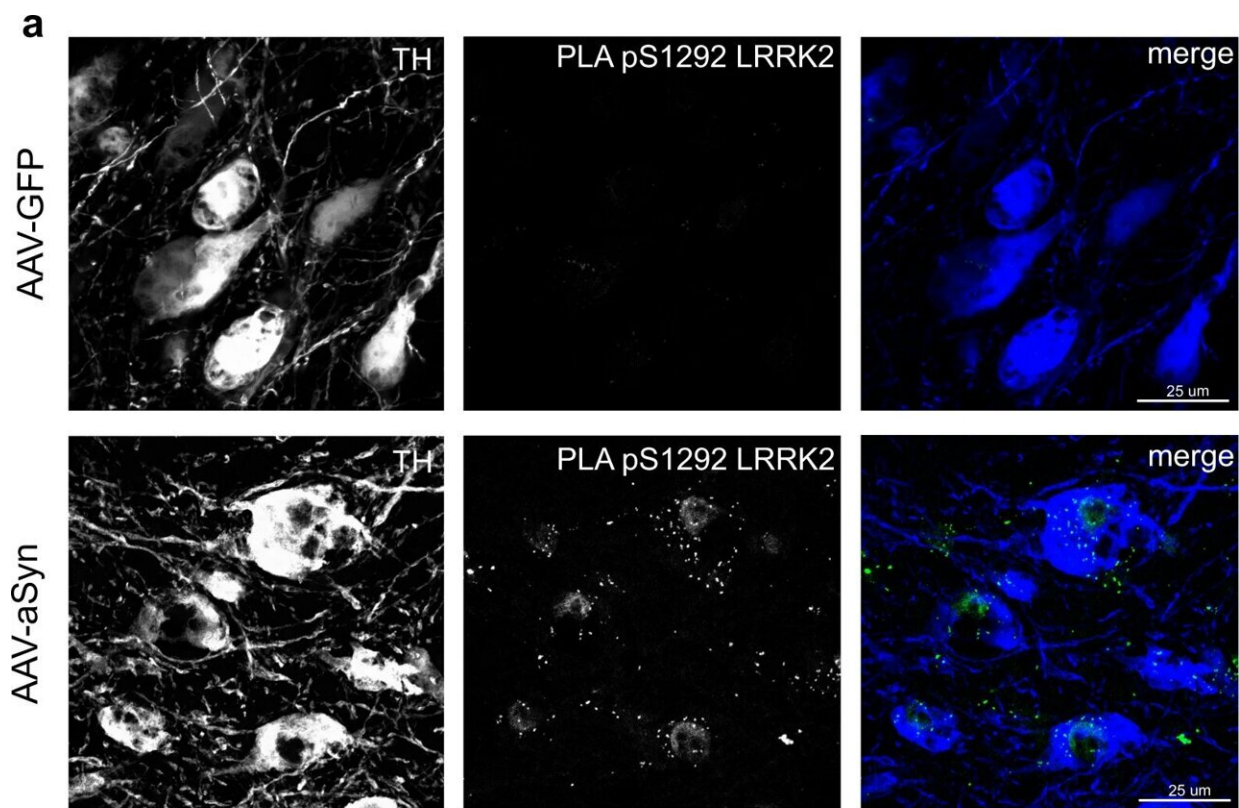


Risk factors for Parkinson's disease: Study proves the protective function of the RIT2 gene

May 25 2023



In vivo aSyn overexpression increases endogenous LRRK2 activity, which is prevented by Rit2 co-expression. **a** PLA analysis of AAV-GFP, AAV-A53T-aSyn and AAV-A53T-aSyn + AAV-Rit2 injected mice in TH-positive neurons in the SNc. **b** Quantification of PLA counts in TH-positive neurons shows a significant increase of endogenous LRRK2 kinase activity with AAV-A53T-aSyn injection. The increase is completely prevented by co-injection of AAV-

Rit2 with AAV-A53T-aSyn (AAV-GFP = 6 animals, AAV-A53T-aSyn = 6 animals, AAV-A53T-aSyn + AAV-Rit2 = 5 animals). Data represented as mean \pm SEM. **p*

Citation: Risk factors for Parkinson's disease: Study proves the protective function of the RIT2 gene (2023, May 25) retrieved 24 April 2024 from <https://medicalxpress.com/news/2023-05-factors-parkinson-disease-function-rit2.html>

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