



Nothobranchius furzeri: A new model organism of alpha-synucleinopathy

Nothobranchius furzeri are short-lived fish from Zimbabwe and Mozambique (Africa) that inhabit ephemeral water bodies. Their captive lifespan is 12 to 40 weeks. Previous experiments have demonstrated lifespan extension by ambient temperature reduction, dietary restriction, resveratrol-treatment, hermetic small molecule inhibition of mitochondrial complex I, and, as presented here, NT-020-treatment. NT-020 is a proprietary mixture that has been demonstrated to stimulate stem cell proliferation and retard neurodegeneration in rats and humans. Western blotting of Nothobranchius brain extracts using the SNL-4 antibody showed an accumulation of monomeric and oligomeric α -synuclein (asyn) protein. Neurodegeneration was confirmed with the observation of (NF)NT-020-treated (n)4 rats. [Biography](#)

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