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Title: Novel tactics for neuroprotection in Parkinson's disease:
Role of antibiotics, polyphenols and neuropeptides

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Highlights

- The review summarizes three novel approaches, the use of which is promising in preclinical studies in Parkinson's disease
- Polyphenols possess neuroprotective properties, on account of their well-established antioxidative and anti-inflammatory actions
- Polyphenols have also influence on protein misfolding and mitochondrial homeostasis
- Experimental evidence supports the potential of antibiotics as neuroprotective agents
- Antibiotics prevent the formation of toxic α -synuclein oligomers and ameliorate mitochondrial dysfunction and neuroinflammation.
- Among neuropeptides, PACAP has a combination of antiapoptotic, anti-inflammatory and antioxidant actions

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