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**Medicinal bio-inorganic chemistry: papers from the Third International Summer School of Bioinorganic Medicinal Chemistry, Cagliari, Italy**

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**Iron and other metals in the pathogenesis of Parkinson's disease: Toxic effects and possible detoxification**

Geir Bjørklund<sup>a</sup>, Tim Hofer<sup>b</sup>, Valeria Marina Nurchi<sup>c</sup>, Jan Aaseth<sup>d,e</sup>

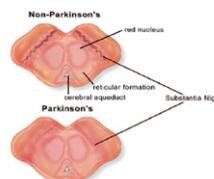
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Parkinson's disease is a degenerative condition characterized by tremor and motor impairment. It is caused by a loss of dopamine-secreting neurons in the substantia nigra of the midbrain.

Research has shown associations between PD progression and increased levels of iron in substantia nigra together with mitochondrial dysfunction.

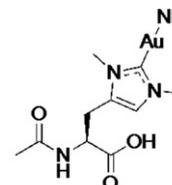
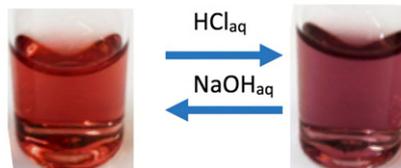
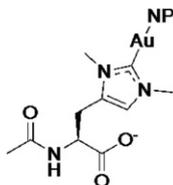


Neuromelanin: the black chelator may protect substantia nigra against reactive oxygen and metal toxicity

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**pH responsive histidin-2-ylidene stabilized gold nanoparticles**

Adam J. Young<sup>a</sup>, Constantin Eisen<sup>b</sup>,  
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