From Paramagnetic Imidazolines to Biocompatible Molecular Magnets Based on Metal Complexes with Spin-labled Lidands

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Stable nitroxides attract the increased attention due to their intrinsic paramagnetism. They display in solution a characteristic ESR spectrum that is widely used in molecular biology, biophysics, polymer chemistry, analytical chemistry and other fields. Stable nitroxides are also increasingly used as «building blocks» in the design of molecular ferromagnets. The potential possibility of their using as biocompatible molecular magnets is under discussion.

- 1. L. B. Volodarsky, V. A. Reznikov, and V. I. Ovcharenko, *Synthetic Chemistry of stable Nitroxides*, CRC Press, Inc., Boca Raton, Florida, 1994.
- 2. Kahn, O. Molecular magnetism; VCH: New York, 1993.