

**Nitroso, nitroxyl and NO: *in-vivo* ESR**

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The recent progress in detection of free radicals *in-vivo* is discussed with regards to nitroso-benzene, nitroxyl radicals and the natural signaling molecule, NO. This paper briefly reviews instrumental aspects as a prelude to a selected set of examples relating to the *in-vivo* monitoring and detection of these radicals or radical precursors. Some of the limitations and comparative advantages/disadvantages with respect to NMR are included. As summarized, the future appears to be bright for *in-vivo* EPR.