

**Whole-body S-band *in vivo* EPR studies on bioreduction of nitroxides in mice.**

**II. Saturation of murine organism with nitroxides**

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The possibility of saturating the murine organism with nitroxides was examined using whole-body EPR technique. The rates of nitroxide bioreduction and renal clearance were equal to those of its reoxidation and administration only when continuous infusion was applied. The steady nitroxide level depends on the rate of its bioreduction, on the rate of infusion and nitroxide concentration.