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Lutz, P. L., Rosenthal, M., & Sick, T. J. (1985). Living without oxygen: Turtle brain as a model of anaerobic metabolism. *Molecular Physiology*, 8(3), 411-425.

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Lutz, PL, McMahon, P, Rosenthal, M, Sick, TJ (1984) Relationships between aerobic and anaerobic energy production in turtle brain in situ. Am J Physiol Regulatory Integrative Comp Physiol 247 R740 - R744

### **Anoxia Tolerant Brains - Göran E. Nilsson, Peter L. Lutz, 2004**

Comparison of the relationship between brain tissue oxygen tension (tPO<sub>2</sub>) and cytochrome a<sub>3</sub> oxidation in the turtle and rat (Lutz et al., 1985) [Open in new tab](#) [Download slide](#). Fig. 1. ... P. L. Lutz, S. Leone-Kabler, L. Manuel, and J. G. Brechin. 2001.

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Brain Without Oxygen P L Lutz, G E Nilsson, H M Prentice It is well known and researched, that deprivation of oxygen to the brain can quickly result in irreversible damage and death. What is less well known, is that some vertebrate species are exceptionally tolerant of brain hypoxia. The Brain Without O...

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A number of these mechanisms were identified and explored using anoxia-tolerant turtles as the model system, particularly from the research contributions made by Dr Peter L. Lutz in his explorations of the mechanisms of neuronal suppression in anoxic brain.

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BAT and brain are both highly oxygen-dependent organs and they are both organs that need to retain considerable metabolic activity during torpor. ... Lutz, P. L. and Prentice, H. M. (2006). Gene transcription of neuroglobin is upregulated by hypoxia and anoxia in the brain of the anoxia-tolerant turtle *Trachemys scripta*. *J. Biomed. Sci.* 13, 509 ...

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Constitutive factors for anoxia survival. Although the turtle brain initiates an elaborate defense strategy when it encounters anoxic conditions, the normoxic brain also has features that predispose it to tolerate hypoxia (a more likely routine event; Lutz, 1992) and that also prime it to assist in immediate survival in an anoxic crisis. Some of these factors include high-energy stores ...

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