

**Inside JEB**

**The Hypoxic Brain i; The Hypoxic Brain: A Comparative Perspective i; Mechanisms Involved In Hypoxia Tolerance And Survival ii; Towards A Treatment For Medical Ischemia iii**

**Editorial**

**Lutz, P.** Editorial. 3124

**Review Articles**

**Chen, Q. and Haddad, G. G.** Role of trehalose phosphate synthase and trehalose during hypoxia: from flies to mammals. 3125-3129

**Nilsson, G. E. and Renshaw, G. M. C.** Hypoxic survival strategies in two fishes: extreme anoxia tolerance in the North European crucian carp and natural hypoxic preconditioning in a coral-reef shark. 3131-3139

**Lutz, P. L. and Milton, S. L.** Negotiating brain anoxia survival in the turtle. 3141-3147

**Vannucci, S. J. and Hagberg, H.** Hypoxia-ischemia in the immature brain. 3149-3154

**Drew, K. L., Harris, M. B., LaManna, J. C., Smith, M. A., Zhu, X. W. and Ma, Y. L.** Hypoxia tolerance in mammalian heterotherms. 3155-3162

**LaManna, J. C., Chavez, J. C. and Pichiule, P.** Structural and functional adaptation to hypoxia in the rat brain. 3163-3169

**Acker, T. and Acker, H.** Cellular oxygen sensing need in CNS function: physiological and pathological implications. 3171-3188

**Graham, R. M., Frazier, D. P., Thompson, J. W., Haliko, S., Li, H., Wasserlauf, B. J., Spiga, M.-G., Bishopric, N. H. and Webster, K. A.** A unique pathway of cardiac myocyte death caused by hypoxia-acidosis. 3189-3200

**Ballanyi, K.** Protective role of neuronal  $K_{ATP}$  channels in brain hypoxia. 3201-3212

**Giffard, R. G., Xu, L., Zhao, H., Carrico, W., Ouyang, Y., Qiao, Y., Sapolsky, R., Steinberg, G., Hu, B. and Yenari, M. A.** Chaperones, protein aggregation, and brain protection from hypoxic/ischemic injury. 3213-3220

**Warner, D. S., Sheng, H. and Batinić-Haberle, I.** Oxidants, antioxidants and the ischemic brain. 3221-3231

**Marti, H. H.** Erythropoietin and the hypoxic brain. 3233-3242

**Bickler, P. E.** Clinical perspectives: neuroprotection lessons from hypoxia-tolerant organisms. 3243-3249