



## **Taurine 4: Taurine and Excitable Tissues: Taurine and Excitable Tissues No. 4 (Advances in Experimental Medicine and Biology)**

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Mitochondria from mammalian tissues possess an elaborate system for  $Ca^{2+}$  transporting  $Ca^{2+}$  across their inner membrane which consists of  $Ca^{2+}$  import,  $Ca^{2+}$  via the  $Ca^{2+}$  uniporter, in response to the mitochondrial membrane  $Ca^{2+}$  potential  $\Delta\psi$  and of  $Ca^{2+}$  release by an antiport system in exchange for  $H^{+}$ ,  $Na^{+}$  (see Fig. 1). Because the uniporter is dependent upon the external  $Ca^{2+}$  concentration ( $[Ca^{2+}]_o$ ), mitochondria accumulate  $Ca^{2+}$  until the  $[Ca^{2+}]_o$  decreases to the level at which the uniporter activity balances the  $Ca^{2+}$  efflux. The  $[Ca^{2+}]_o$  at which the uniporter and efflux activities are equal is defined as the "setpoint" and corresponds to values between 0.3-3  $\mu M$ . Figure 1. The  $Ca^{2+}$  transport system of the inner membrane of mammalian mitochondria. U,  $Ca^{2+}$  uniporter. I, Na<sup>+</sup>-independent efflux mechanism or  $Ca^{2+}/2H^{+}$  exchanger. D, Na<sup>+</sup>-dependent  $Ca^{2+}$  efflux mechanism or  $Ca^{2+}/2Na^{+}$  exchanger. PTP, permeability transition pore. FP, flavoprotein.  $\Delta\psi$  membrane potential.  $\Delta pH$  gradient. Adapted from .

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