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Volume 34, No. 3 **September 2010**

SHOCK® is abstracted and/or indexed in *Index Medicus*, MEDLINE, Current Contents®/Life Sciences, Science Citation Index®, SciSearch®, Research Alert®, the Biochemistry & Biophysics Citation Index™, and Reference Update
Current Impact Factor 2.871

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COVER: 17β-Estradiol prevents hemorrhagic shock (HS)-induced decrease in mitochondrial transmembrane potential. Under control conditions, JC-1 fluoresced the mitochondria red (Cy3) and the cytoplasm green (FITC), indicating an intact mitochondria. Hemorrhagic shock for 60 min MAP at 40 mmHg followed by 60 min of resuscitation induces the collapse of membrane potential, allowing diffusion of the red (Cy3) fluorescence into the cytoplasm. 17β-Estradiol pretreatment 10 min before HS prevents the decrease in membrane potential. See Childs et al., pages 229–235, 2010.