

DISTINCT FUNCTIONAL ROLES OF CARDIAC MITOCHONDRIAL SUBPOPULATIONS REVEALED BY 3D SIMULATION MODEL

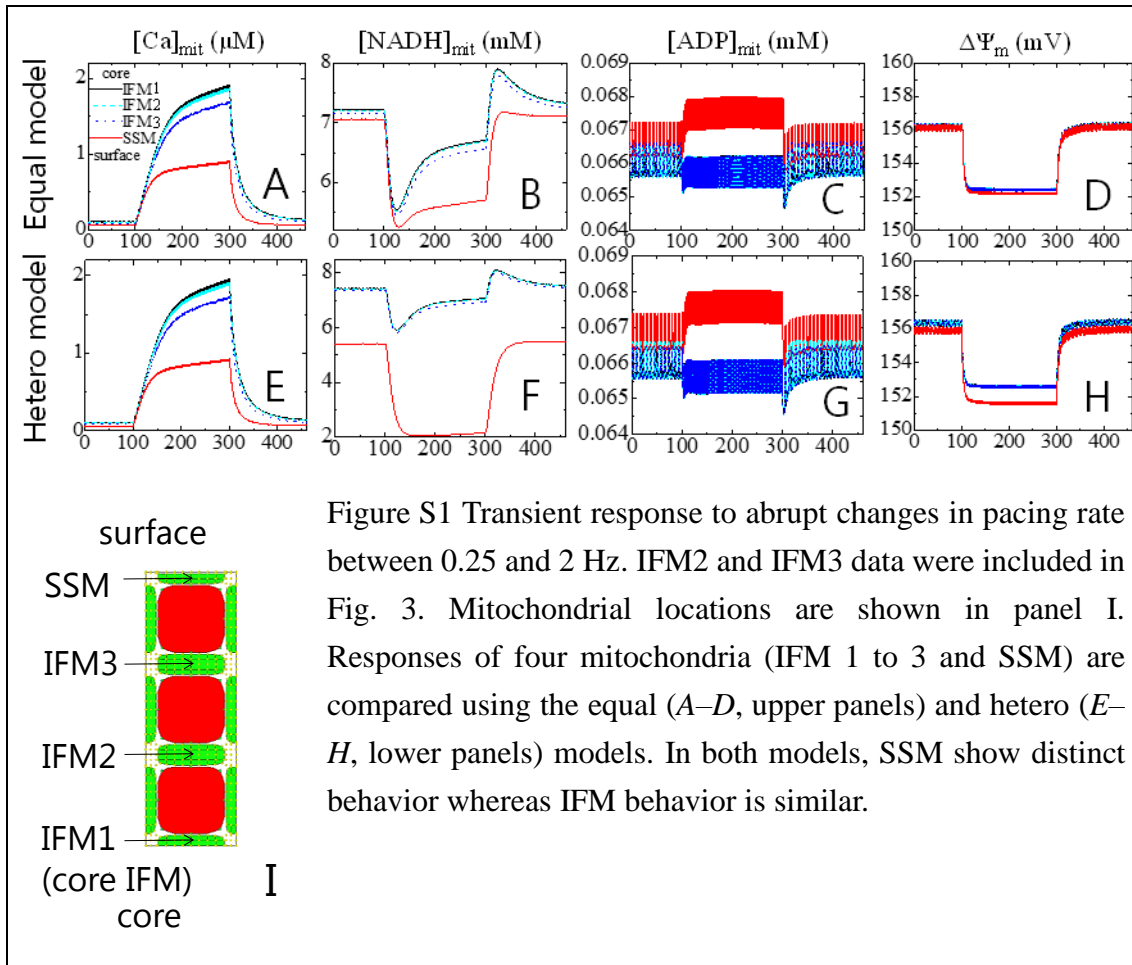
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SUPPORTING MATERIAL



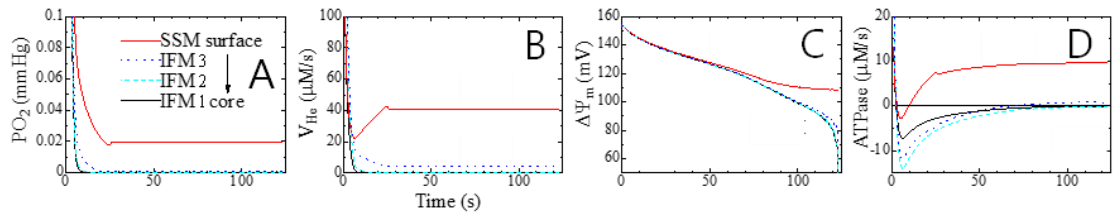


Figure S2 Response to step decreases in extracellular PO_2 from 40 to 1 mmHg. IFM2 and IFM3 data were included in the upper panels of Fig. 4. Mitochondrial locations are indicated in panel I of Fig. S1. Responses of four mitochondria (IFM 1 to 3 and SSM) are compared. (A) local PO_2 ; (B) proton pump activity; (C) mitochondrial inner membrane potential; and (D) mitochondrial ATPase activity. Under hypoxic conditions, SSM show distinct behavior whereas IFM behavior gradually changes from the surface to the core.