

North et al., Tyrosine 450 in the BK channel pore-forming (slo1) subunit mediates cholesterol protection against alcohol-induced constriction of cerebral arteries, *J Pharmacol Exp Ther*

**Supplementary Movie 1. Time-lapse confocal fluorescence imaging of rat middle cerebral artery segment following anti-BK beta1 immunostaining (red).** Imaging reflects focal plane movement (z-stacking, step size set at 1  $\mu\text{m}$ ) along a randomly picked cross-section of the artery (40x magnification). Cellular nuclei are stained with blue DAPI. Myocyte nuclei have a perpendicular orientation, while endothelial nuclei are oriented parallel to the artery side.

**Supplementary Movie 2. Time-lapse confocal fluorescence imaging of rat middle cerebral artery segment following anti-CD31 immunostaining (green).** Imaging reflects focal plane movement (z-stacking, step size set at 1  $\mu\text{m}$ ) along a randomly picked cross-section of the artery (40x magnification). Cellular nuclei are stained with blue DAPI. Myocyte nuclei have a perpendicular orientation, while endothelial nuclei are oriented parallel to the artery side.