

Selected (15) Publications:

1. **SOWA G.**, Liu J., Papapetropoulos A., Rex-Haffner M., Hughes TE., and Sessa WC. Trafficking of Endothelial Nitric-oxide Synthase in Living Cells. QUANTITATIVE EVIDENCE SUPPORTING THE ROLE OF PALMITOYLATION AS A KINETIC TRAPPING MECHANISM LIMITING MEMBRANE DIFFUSION. **Journal of Biological Chemistry** 1999, 274: 22524-22531.
2. **SOWA G**, Pypaert M, Sessa WC. Distinction between signaling mechanisms in lipid rafts versus caveolae. **Proc Natl Acad Sci USA** 2001, 98(24): 14072-77.
3. **SOWA G**, Pypaert M, Fulton D, Sessa WC. The phosphorylation of caveolin-2 on serines 23 and 36 modulates caveolin-1 dependent caveolae formation. **Proc Natl Acad Sci USA** 2003, 100(11):6511-6.
4. **SOWA G***, Xie L, Xu L, Sessa WC. Serine 23 and 36 phosphorylation of caveolin-2 is differentially regulated by targeting to lipid raft/caveolae and in mitotic endothelial cells. **Biochemistry** 2008, 47:101-111.
5. Xie L, Frank PG, Lisanti MP and **SOWA G***. Endothelial cells isolated from Caveolin-2 knockout mice display higher proliferation rate and cell cycle progression relative to their wild type counterparts. **AJP-Cell Physiology**. 2010 Mar; 298(3): C693-701.
6. Xie L, Vo-Ransdell C, Abel B, Willoughby C, Jang S and **SOWA G***. Caveolin-2 is a negative regulator of anti-proliferative function and signaling of transforming growth factor beta in endothelial cells. **AJP-Cell Physiology**. 2011 Nov;301(5):C1161-74.
7. **SOWA G***. Novel Insights into the Role of Caveolin-2 in Cell- and Tissue-Specific Signaling and Function. **Biochemistry Research International**. 2011. doi:10.1155/2011/809259.
8. **SOWA G***. Caveolins in Tumor Angiogenesis. **Current Cancer Research (Springer)**. 2012, 75-90, DOI: 10.1007/978-1-4614-1001-0_6.
9. **SOWA G***. Caveolae, caveolins, cavins and endothelial cell function: new insights. **Frontiers in Vascular Physiology**. 2012; 2:120. doi: 10.3389/fphys.2011.00120.
10. Abel B, Willoughby C, Jang S, Cooper L, Xie L, Vo-Ransdell C and **SOWA G***. N-terminal serine and tyrosine phosphorylation of caveolin-2 are required for anti-proliferative effect of

transforming growth factor beta in endothelial cells. **FEBS Letters**. 2012 Sep 21;586(19):3317-23.

11. **SOWA G***. Regulation of cell signaling and function by endothelial caveolins: implications in disease. **Translational Medicine**. 2012, S8:001. doi: 10.4172/2161-1025.S8-001.
12. **SOWA G***. Role of caveolin proteins in sepsis. **Pediatrics & Therapeutics** 2012, S2:001. doi:10.4172/2161-0665.S2-001.
13. Liu Y, Xie L, Jang S and **SOWA G***. Host deficiency in caveolin-2 inhibits lung carcinoma tumor growth by impairing tumor angiogenesis. **Cancer Research**. 2014 Nov 15;74(22):6452-62. doi: 10.1158/0008-5472.CAN-14-1408. Epub 2014 Sep 30.
14. Liu Y and **SOWA G***. Role of caveolin-2 in subcutaneous tumor growth and angiogenesis associated with syngeneic mouse Lewis lung carcinoma and B16 melanoma models. **Cancer Cell & Microenvironment**. 2014, 1(6). doi: 10.14800/ccm.439.
15. Fernando C, Liu Y, **SOWA G**, Segal SS. Attenuated Rapid-Onset Vasodilation with greater force production in skeletal muscle of caveolin-2^{-/-} Mice. **AJP – Heart and Circulatory Physiology**. 2016 Jun 17:ajpheart.00082.2016. doi: 10.1152/ajpheart.00082.2016.

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