



**Supplementary Figure 1: Design of the chamber for measuring GSH/GSSG efflux at the anterior and posterior surfaces of the lens.** (A) Side and (B) overhead view of a representative donor lens placed in the chamber insert. The size of the circular insert was wide enough to allow sufficient exposure of the posterior and anterior surface of the lens to the media. Media would be placed in the bottom compartment, the lens placed in the insert and then the top compartment filled with media. The chamber and lens inserted could then be easily placed within the hypoxic chamber.