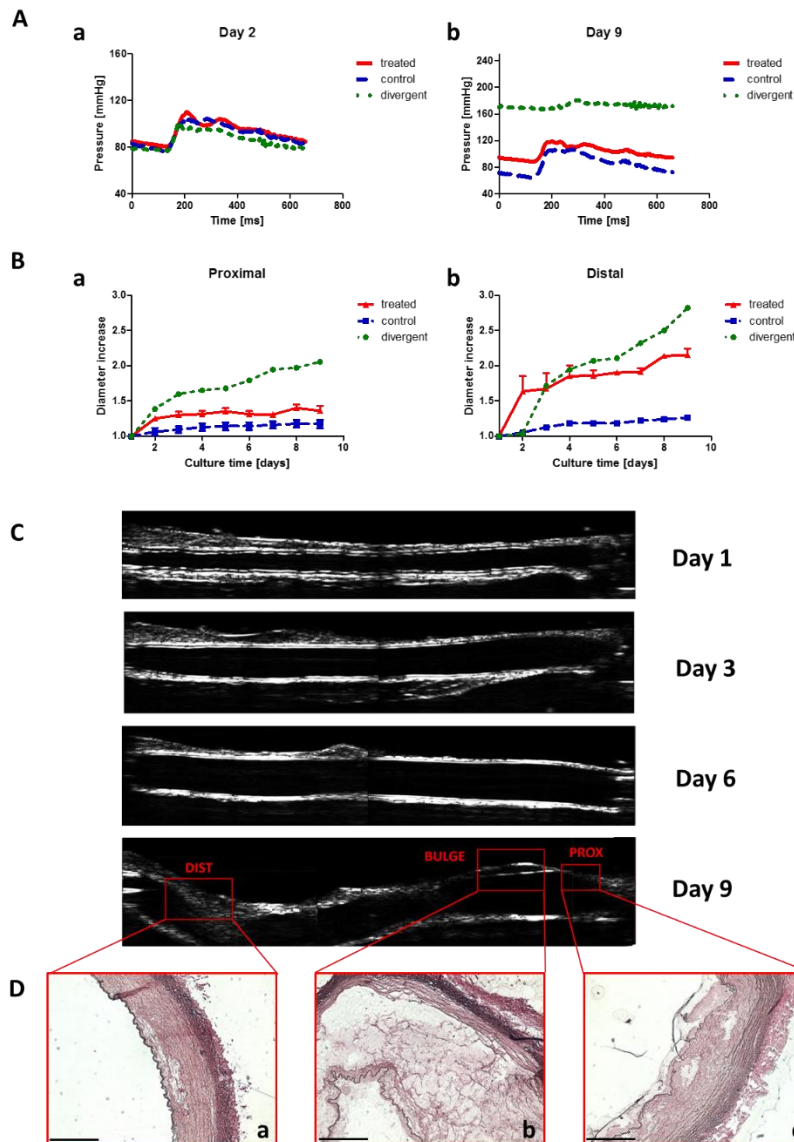


# Development of an *Ex Vivo* Aneurysm Model for Vascular Device Testing

## Supplementary Data



**Fig. S1: Divergent response of one of the treated vessels after 10 days of culture in the *ex vivo* vascular bioreactor**

(A) Pressure curves at day 2 and 9 of the divergent treated artery compared to the other treated and control arteries. (a) No differences are observed at day 2, while (b) a significant increase of mean pressure and loss of pulsatility are shown at day 9. (B) Significant increase of both (a) proximal and (b) distal diameter of this porcine carotid artery during culture compared to treated and control groups. (C) Loss of straight morphology and bulge development visible during culture with ultrasound imaging. (D) VVG staining shows loose wall structure in the distal (a) and proximal (c) segments and (b) bulge with massive extracellular matrix disruption. VVG: Collagen fibers are stained in red, elastin fibers in black; scale bar: 500  $\mu$ m.