



**Online Resource 1 Isolation of HUVECs on Matrigel, fibronectin and gelatin.** Cells were harvested by sequential short trypsinization and seeded on coated vessels (passage 0, p0). Four hours after isolation, cells have attached to all substrates and are already spreading. Forty hours after seeding, cells are extensively spread and show characteristic elongated-polygonal shape on every coating. Scale bar (applicable to all the panels): 100  $\mu\text{m}$