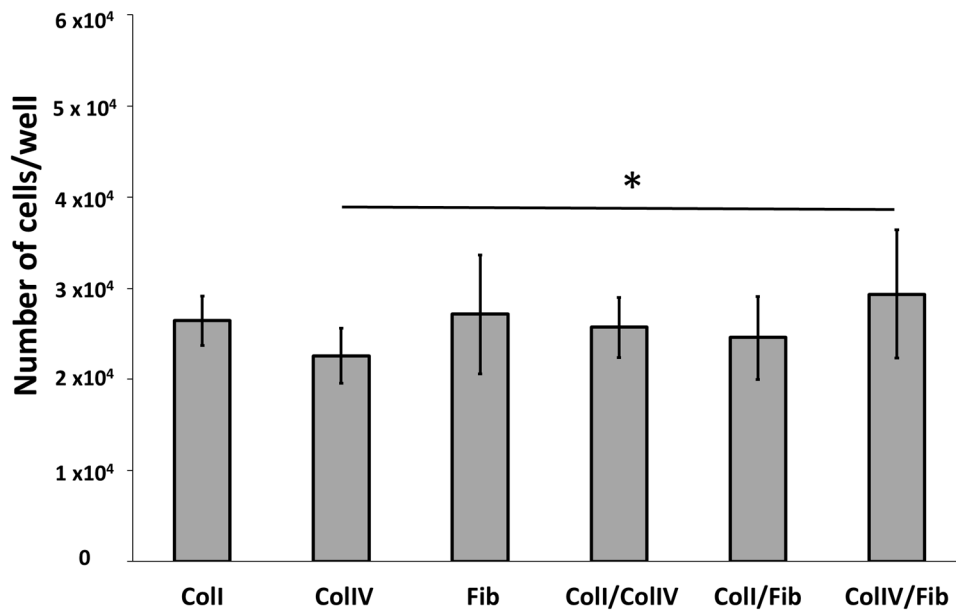


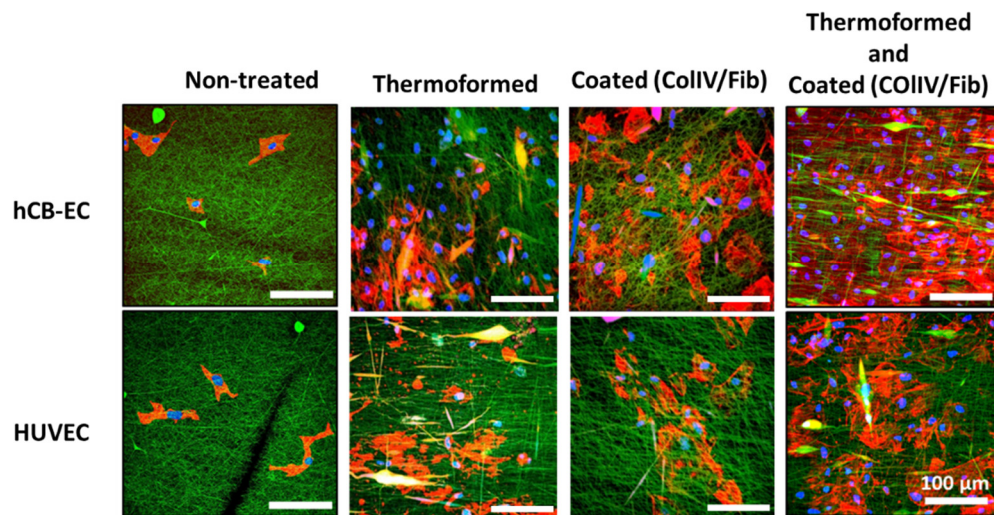
**Table S1.** Detailed information on antibodies.

<b>Antibody</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Concentration</b>	<b>Application</b>
CD31	BD Biosciences	555445	20 $\mu$ L/test	Flow cytometry, immunochemistry
CD45	BD Biosciences	562394	5 $\mu$ L/test	Flow cytometry
CD105	BD Biosciences	562408	5 $\mu$ L/test	Flow cytometry
Intercellular adhesion molecule 1 (ICAM-1)	Abcam	ab2213	1/100	ELISA
Vascular cell adhesion molecule 1 (VCAM-1)	Abcam	ab98954	1/100	ELISA
Endothelial nitric oxide synthase (eNOS)	Abcam	ab76198	1/1000	ELISA
Rabbit anti-mouse secondary antibody	Abcam	ab6728	1/1000	ELISA

ELISA: Enzyme-linked immunosorbent assay.



**Figure S1.** Cell number of hCB-ECs 3 days post seeding on coverslips coated with collagen type I (Coll), collagen type IV (ColIV), fibronectin (Fib), or a 1:1 mixture of Coll and ColIV (Coll/ColIV), Coll and Fib (Coll/Fib), or ColIV and Fib (ColIV/Fib) in 96-well plates. Error bars shown are standard deviations (\*  $p < 0.05$ ;  $n = 6$ ). The combination of collagen IV and fibronectin promotes hCB-EC growth when compared to collagen IV alone.



**Figure S2.** Maximum intensity projection multiphoton images of Human cord blood-derived endothelial cells (hCB-ECs) or human umbilical vein endothelial cells (HUVECs) cultured in non-treated, thermoformed, coated with collagen IV and fibronectin, or thermoformed and coated scaffolds after 7 days of culture (green—scaffolds; blue—nuclei; red—F-actin). Scale bar = 100  $\mu\text{m}$ . The thermoformed and coated scaffolds are the most favorable for cell attachment and cell spreading compared to thermoformed alone or coated alone in both cell types.

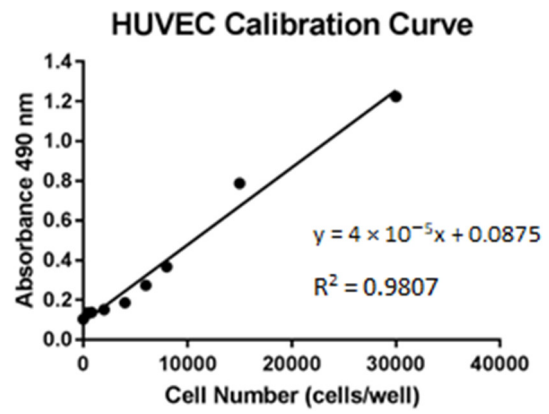
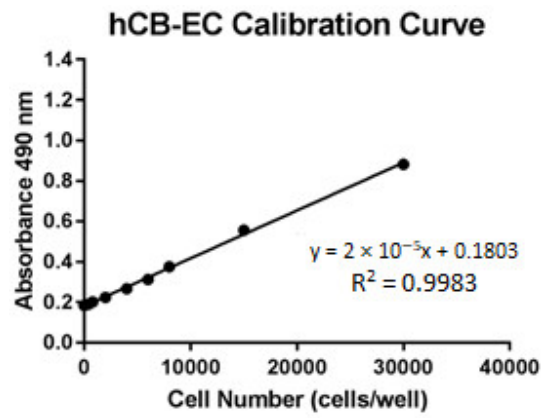


Figure S3. MTS assay calibration curves for hCB-EC and HUVEC ( $n = 6$ ).