Adhesion of human pathogenic bacteria to endothelial cells is facilitated by fibronectin interaction

- Supplementary information -

Diana J. Vaca [a ǁ], Fabienne Frenzel [a ǁ], Wibke Ballhorn [a], Sara Garcia Torres [a], Matthias S. Leisegang [b, c], Stefan Günther [d], Daniela Bender [e], Peter Kraiczy [a], Stephan Göttig [a], Volkhard A. J. Kempf [a] *

[a] Institute of Medical Microbiology and Infection Control, Goethe University, Paul Ehrlich Straße 40, 60596 Frankfurt, Germany
[b] Institute for Cardiovascular Physiology, Goethe University, Theodor-Stern-Kai 7, 60590 Frankfurt, Germany
[c] German Center of Cardiovascular Research (DZHK), Partner site RheinMain, Theodor-Stern-Kai 7, 60590 Frankfurt, Germany
[d] Max Planck Institute for Heart and Lung Research, Parkstraße 1, 61231 Bad Nauheim, Germany
[e] Federal Institute for Vaccines and Biomedicines, Department of Virology, Paul Ehrlich Institute, Paul-Ehrlich-Straße 51-59, 63225 Langen, Germany

Table S1. Antibodies (IgG) and staining chemicals used in this study.

Antibody	Concentration	Provider/reference
Primary antibodies		
mouse anti-cellular Fn	1:100 (IFM; CLSM)	MAB1940, Sigma-Aldrich
mouse anti-Fn	1:100 (IFM; CLSM); 1:1,000 (ELISA)	610077, Becton Dickinson
rabbit anti-Fn	1:2,000 (WB)	F3648, Sigma-Aldrich
mouse anti-ß-actin	1:500 (WB)	A5441, Sigma-Aldrich
Alexa 488 conjugated rabbit anti-laminin	1:100 (IFM)	NB300-144AF488, NOVUS
Alexa 647 conjugated rabbit anti-collagen V	1:100 (IFM)	SC-166155AF647, Santa Cruz
rabbit anti-A*. baumannii* (SY0372)	1:1,000 (ELISA); 1:200 (IFM; CLSM)	this study
rabbit anti-*B. henselae*	1:1,000 (ELISA); 1:1,000 (IFM; CLSM)	[17]
rabbit anti-*B. burgdorferi*	1:1,000 (ELISA); 1:1,000 (IFM; CLSM)	18-783-77370, GenWay
rabbit anti-*S. aureus*	1:2,000 (ELISA); 1:2,000 (IFM; CLSM)	ab20920, abcam
Secondary antibodies		
HRP conjugated anti-rabbit IgG	1:2,000 (ELISA, WB)	P0217, Dako
HRP conjugated anti-mouse IgG	1:2,000 (ELISA)	P0260, Dako
Alexa 488 conjugated anti-rabbit IgG	1:200 (IFM; CLSM)	111-545-045, Dianova
Alexa 647 conjugated anti-mouse IgG	1:200 (CLSM)	115-175-062, Dianova
Staining chemicals		
4',6-diamidino-2-phenylindole (DAPI)	1 µg/ml (IFM; CLSM)	1.24653, Merk
Alexa 555 phalloidin	1:400 (IFM; CLSM)	A34055, Invitrogen

IFM: immunofluorescence microscopy; CLSM: confocal laser scanning microscopy; ELISA: enzyme linked immunosorbent assay, WB: Western blotting

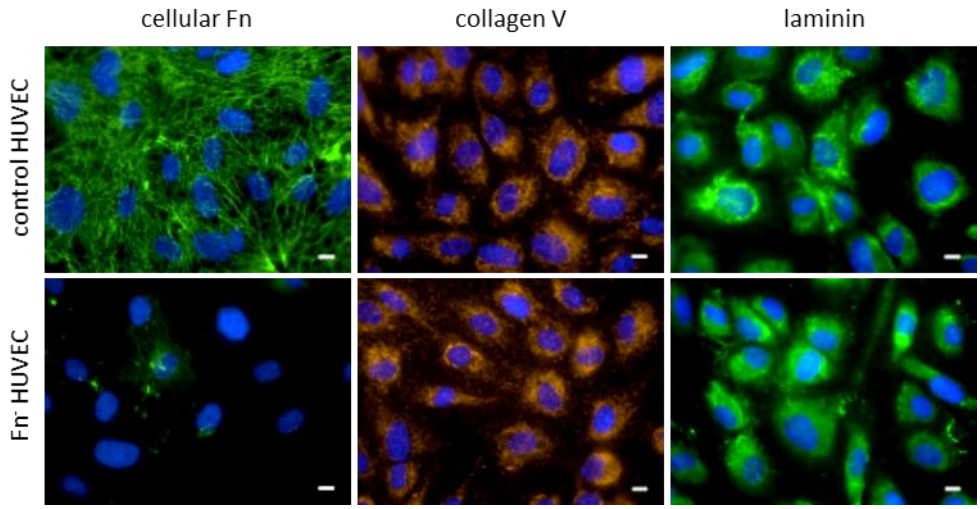

Fig. 1S Immunofluorescence microscopy of CRISPR Cas-mediated Fn knockout endothelial cells (HUVECs). Control HUVEC (cells expressing *FN1*) and Fn$^-$ HUVEC (*FN1* knockout HUVEC, EC 3) were used. Cellular Fn, collagen V, and laminin were stained in control HUVEC and Fn$^-$ HUVEC to exclude an impact on collagen and laminin arrangement in the pericellular environment (Fn or laminin: green; collagen V: orange; nuclei: blue). Scale bar: 10 µm.