**Supplementary Data 1.** RT-PCR analysis (in triplicate) (A, C) and quantification (reported to GAPDH expression) (B, D) of ARN extracted from cauterized corneas treated with sunitinib or not (control) at day 7 (A, B) and at day 21 (C, D). *, P < 0.05; **, P < 0.01.
Supplementary Data 2. Proliferation (A) and tubulogenesis (B) assays using isolated LECs in the presence (+) or absence (-) of macrophage conditioned medium (MΦ Medium) or sunitinib. **, P < 0.01; ***, P < 0.001, n.s., non significant.
**Detry et al., Supplementary Data 3**

**Supplementary Data 3.** Western blot analysis of total or phosphorylated (p) VEGFR-2, Akt and ERK1/2 phosphorylation in isolated LECs. Cells were exposed to macrophage conditioned medium (Mϕ medium), in the presence (+) or not (-) of sunitinib or sVEGFR-1 or sVEGFR-3.