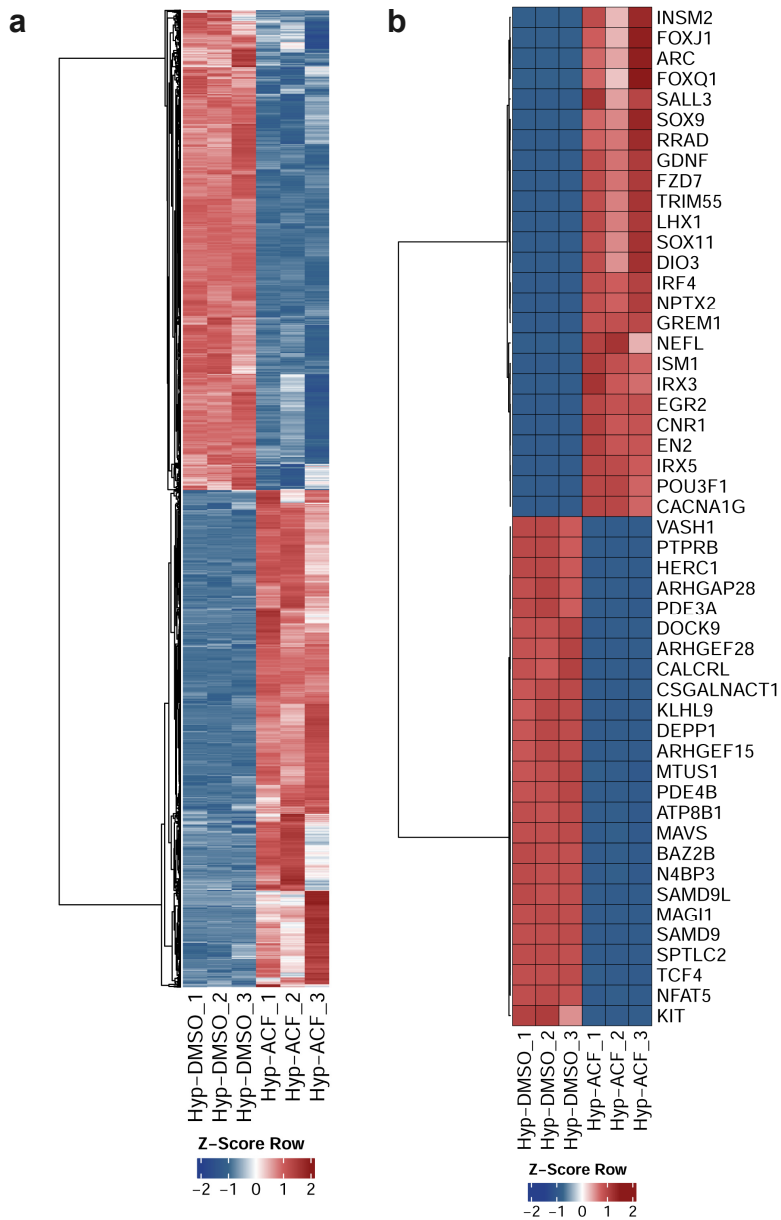


Supplemental information

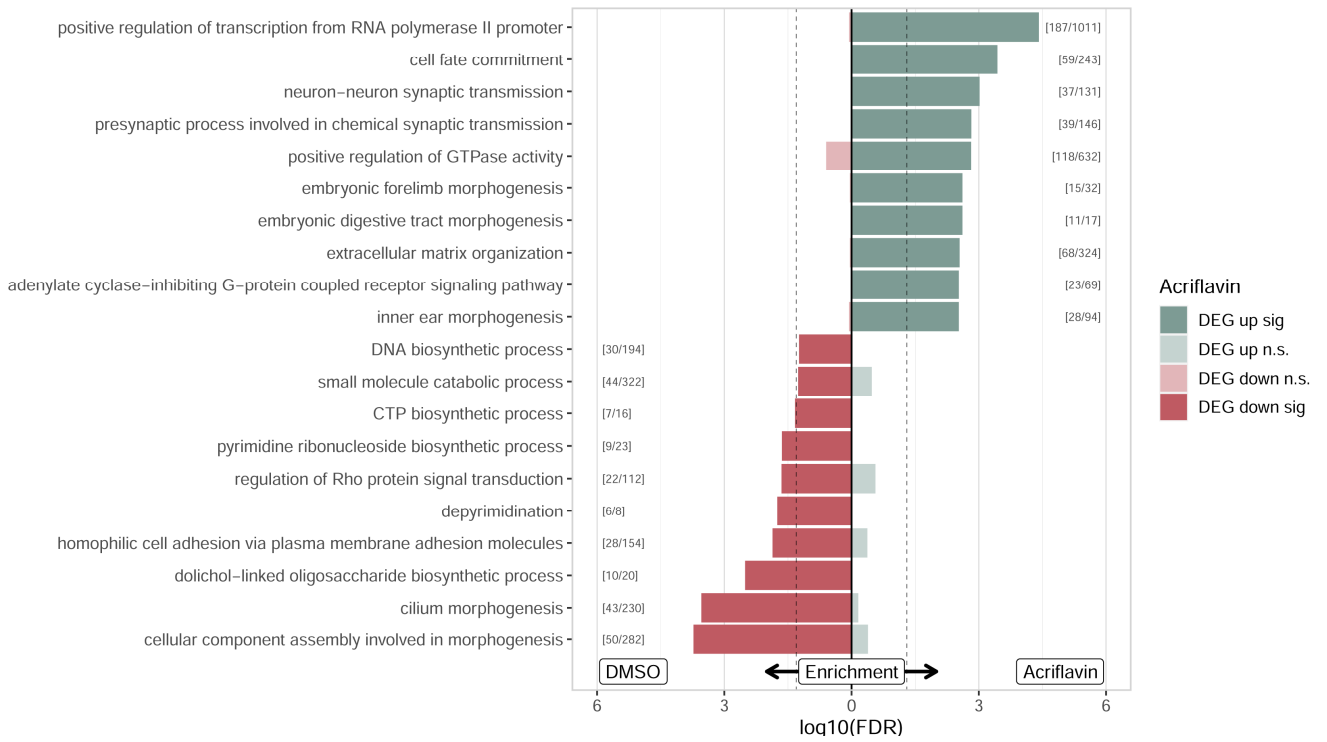
**DNA topoisomerase inhibition with the HIF
inhibitor acriflavine promotes
transcription of lncRNAs in endothelial cells**

Sandra Seredinski, Frederike Boos, Stefan Günther, James A. Oo, Timothy Warwick, Judit Izquierdo Ponce, Felix F. Lillich, Ewgenij Proschak, Stefan Knapp, Ralf Gilsbach, Beatrice Pflüger-Müller, Ralf P. Brandes, and Matthias S. Leisegang

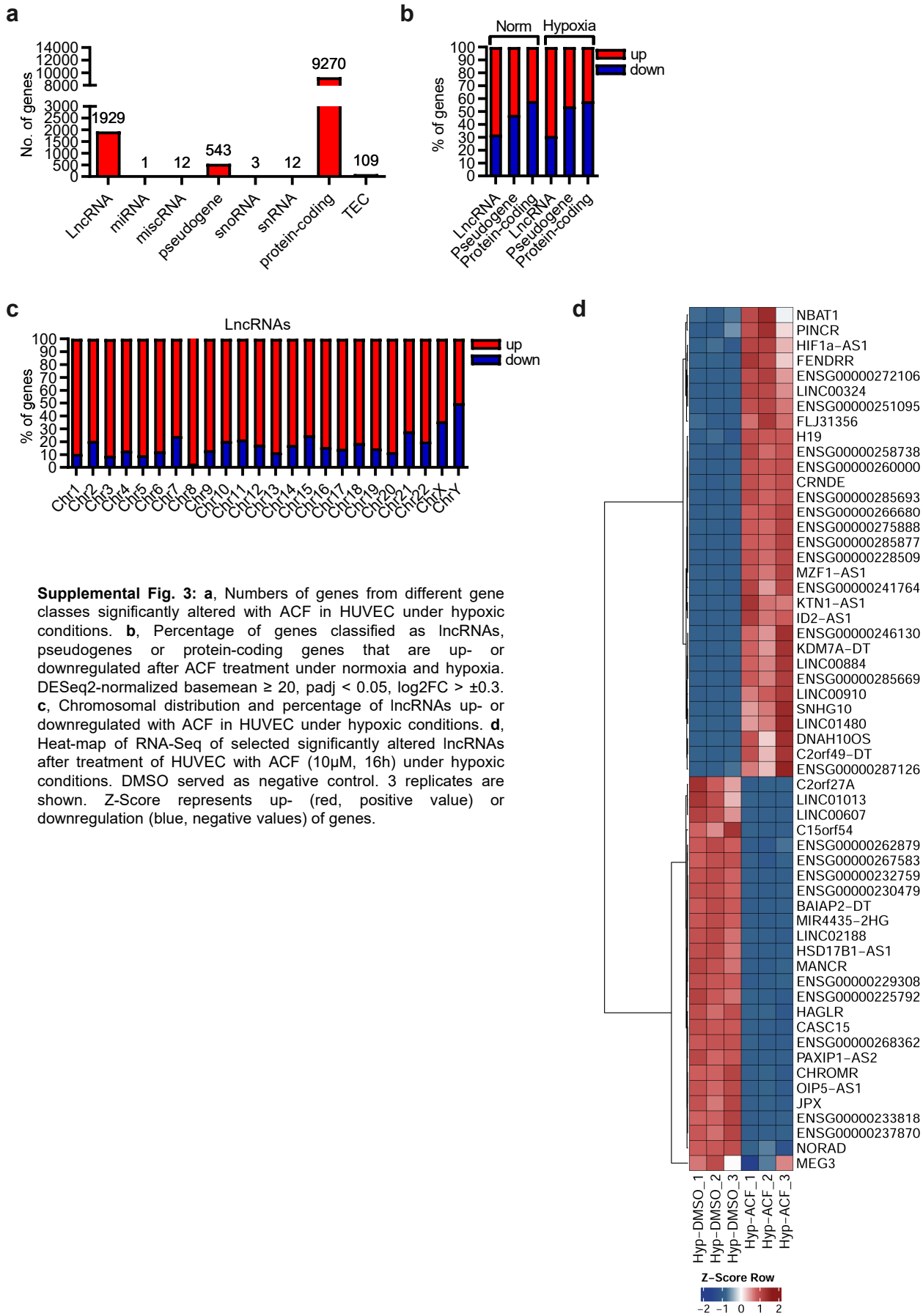


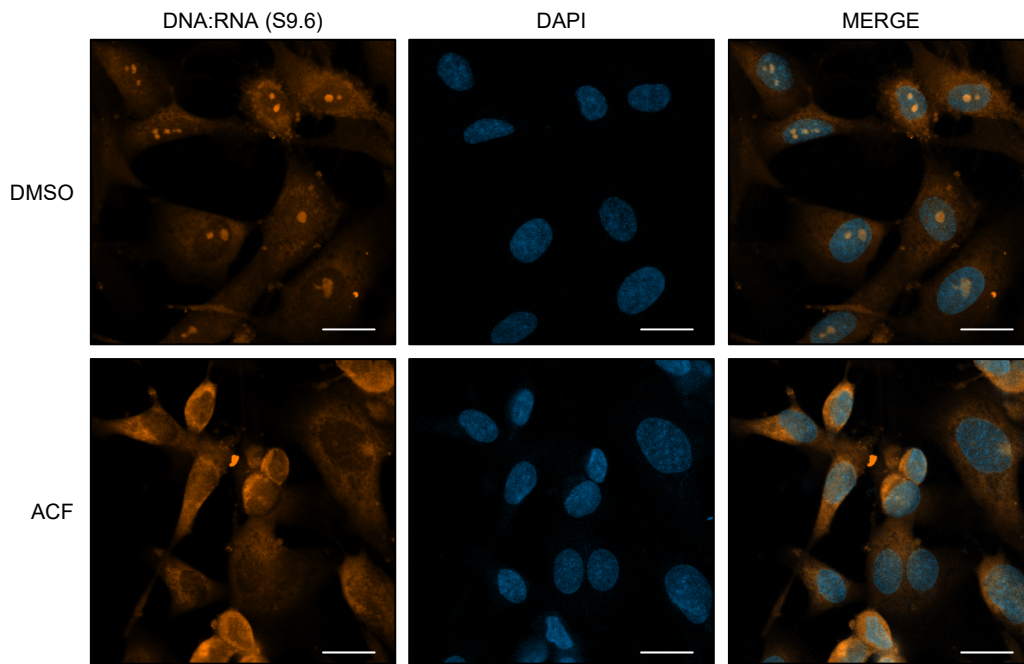
Supplemental Fig. 1: a, Heat-map of RNA-Seq of HUVEC treated with hypoxia (1% O₂, 16h, Hyp) and with or without ACF (10μM, 16h) showing significantly (padj <0.05, log2FC>±0.3) altered protein-coding genes. DMSO served as negative control. 3 replicates are shown. Z-score represents up- (red, positive value) or downregulation (blue, negative values) of genes. **b**, Heat-map as in a. Top25 up- and downregulated protein-coding genes were shown.

Gene set enrichment (FDR<0.2, Top 10 up/down Sets)
DMSO_vs_Acridflavin_Gene_Ontology_FDR



Supplemental Fig. 2: Gene ontology set enrichment of all significantly regulated genes from the RNA-Seq in HUVECs treated with ACF (10 μ M, 16h). DMSO served as negative control. FDR < 0.2, Top10 up/down sets are shown. Error bars are defined as mean +/- SEM. *P<0.05.





Supplemental Fig. 4: Immunofluorescence with an antibody against DNA:RNA Hybrids (S9.6 antibody) in HUVEC treated with ACF (10 μ M, 16h) or DMSO. Nuclei were stained with DAPI. Scale bar indicates 20 μ m.