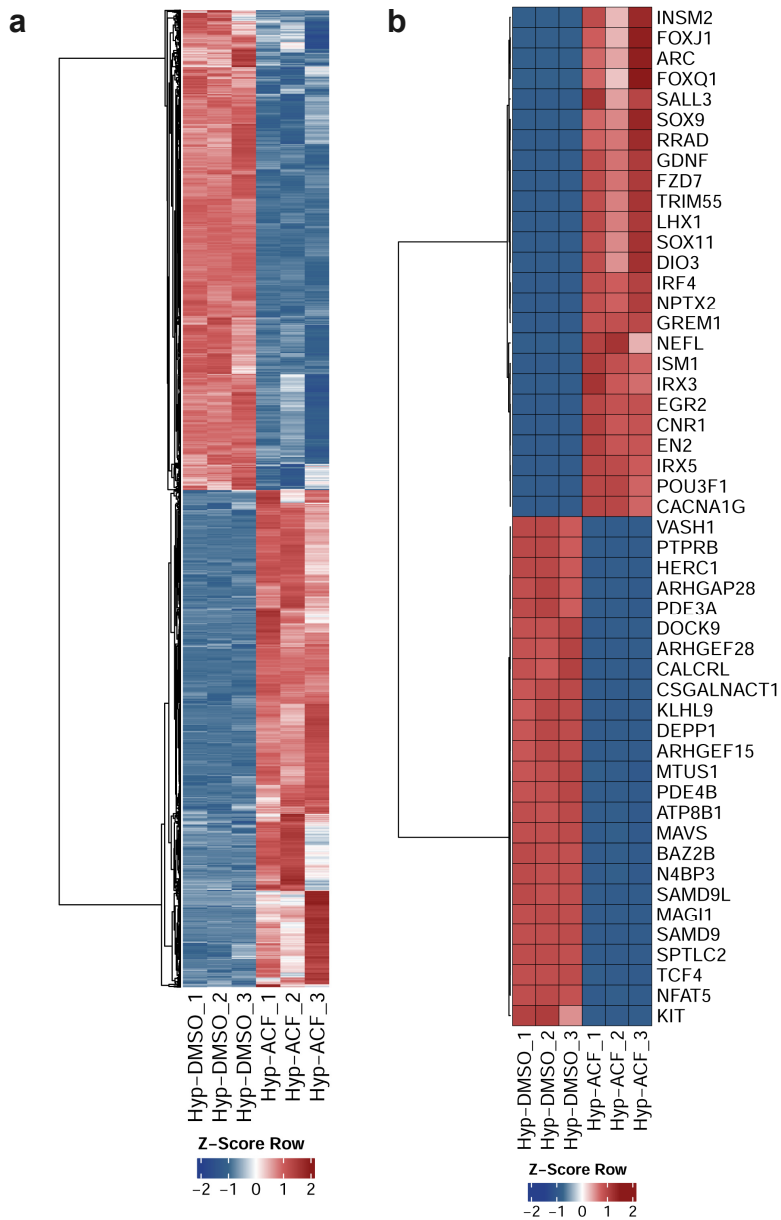


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Supplemental information

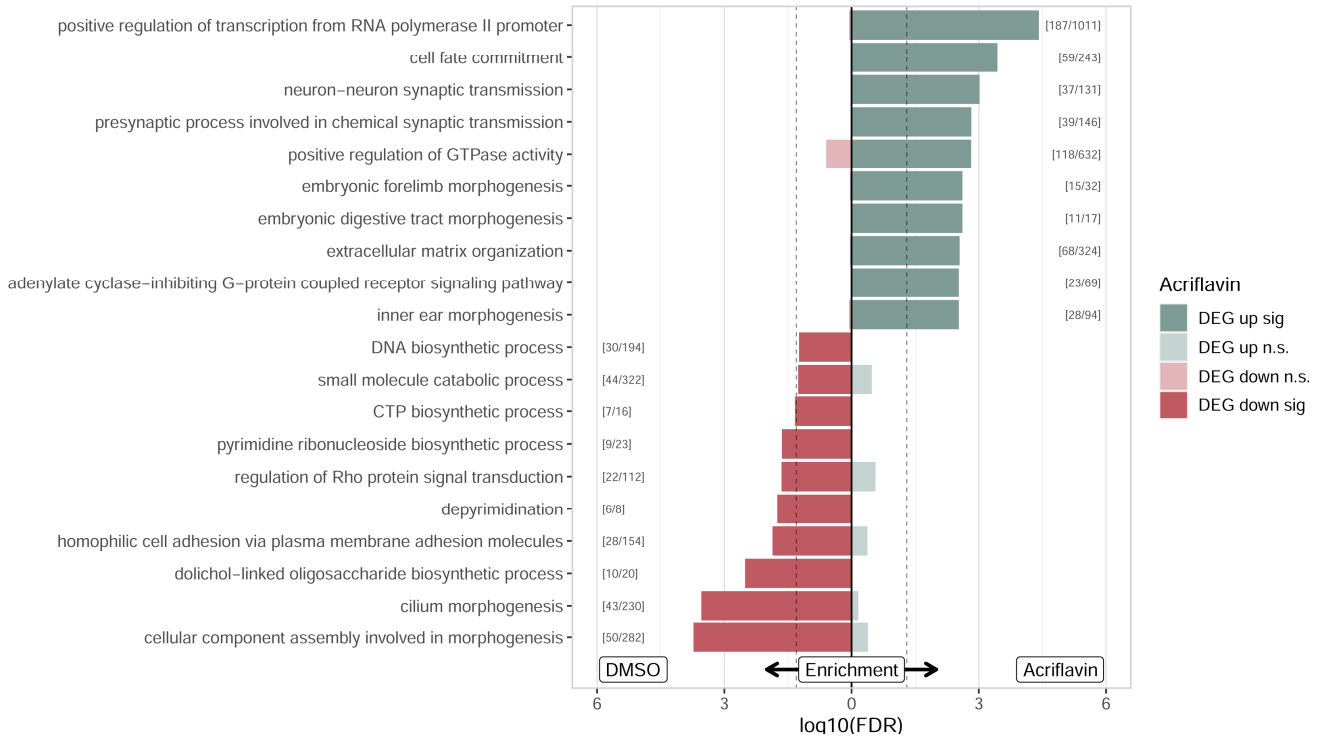
DNA topoisomerase inhibition with the HIF inhibitor acriflavine promotes transcription of lncRNAs in endothelial cells

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

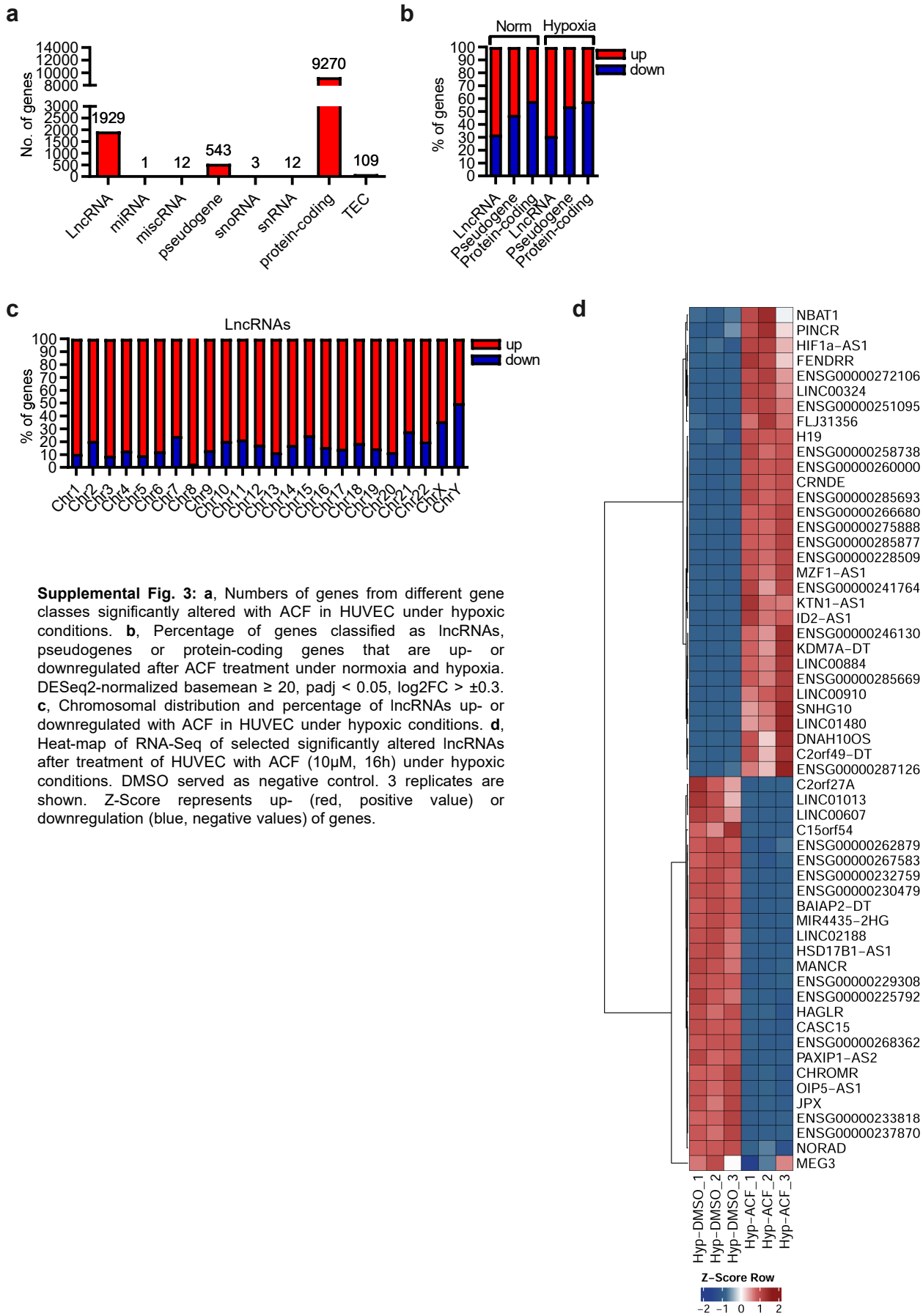


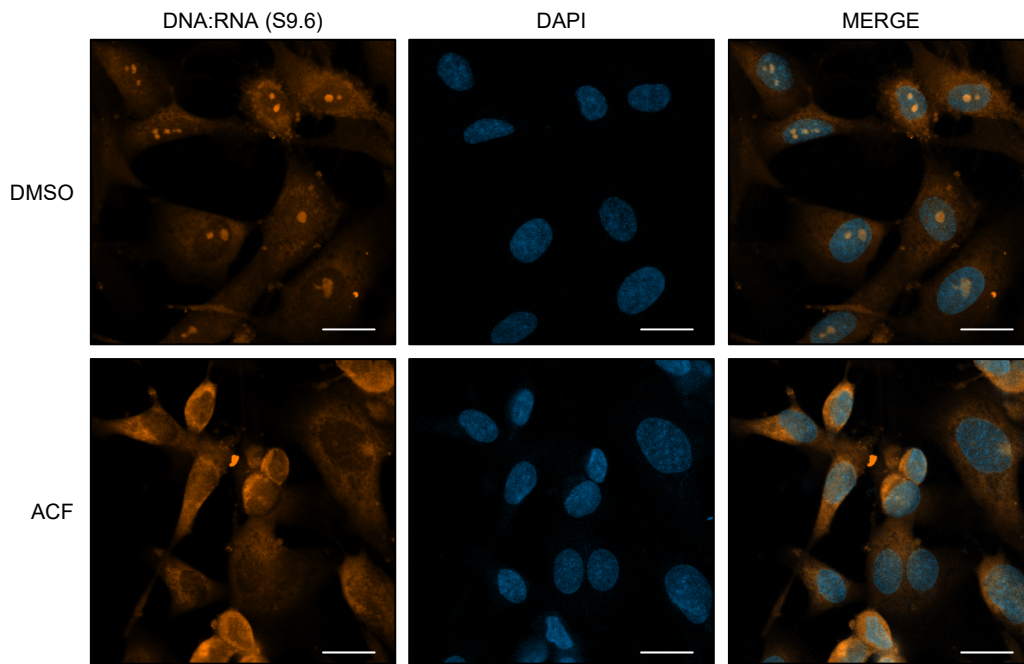
Supplemental Fig. 1: a, Heat-map of RNA-Seq of HUVEC treated with hypoxia (1% O₂, 16h, Hyp) and with or without ACF (10μM, 16h) showing significantly (padj <0.05, log2FC>±0.3) altered protein-coding genes. DMSO served as negative control. 3 replicates are shown. Z-score represents up- (red, positive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