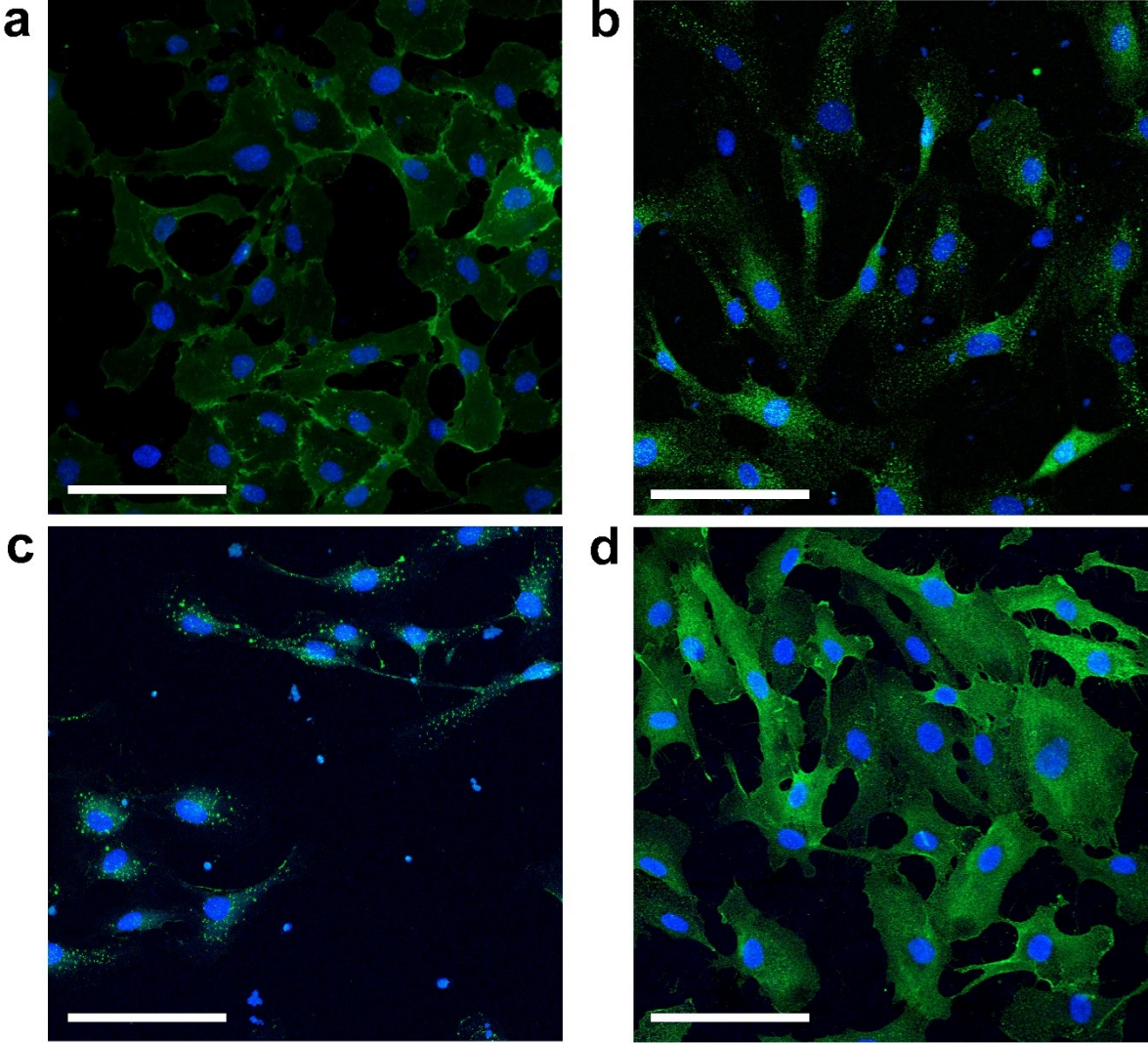
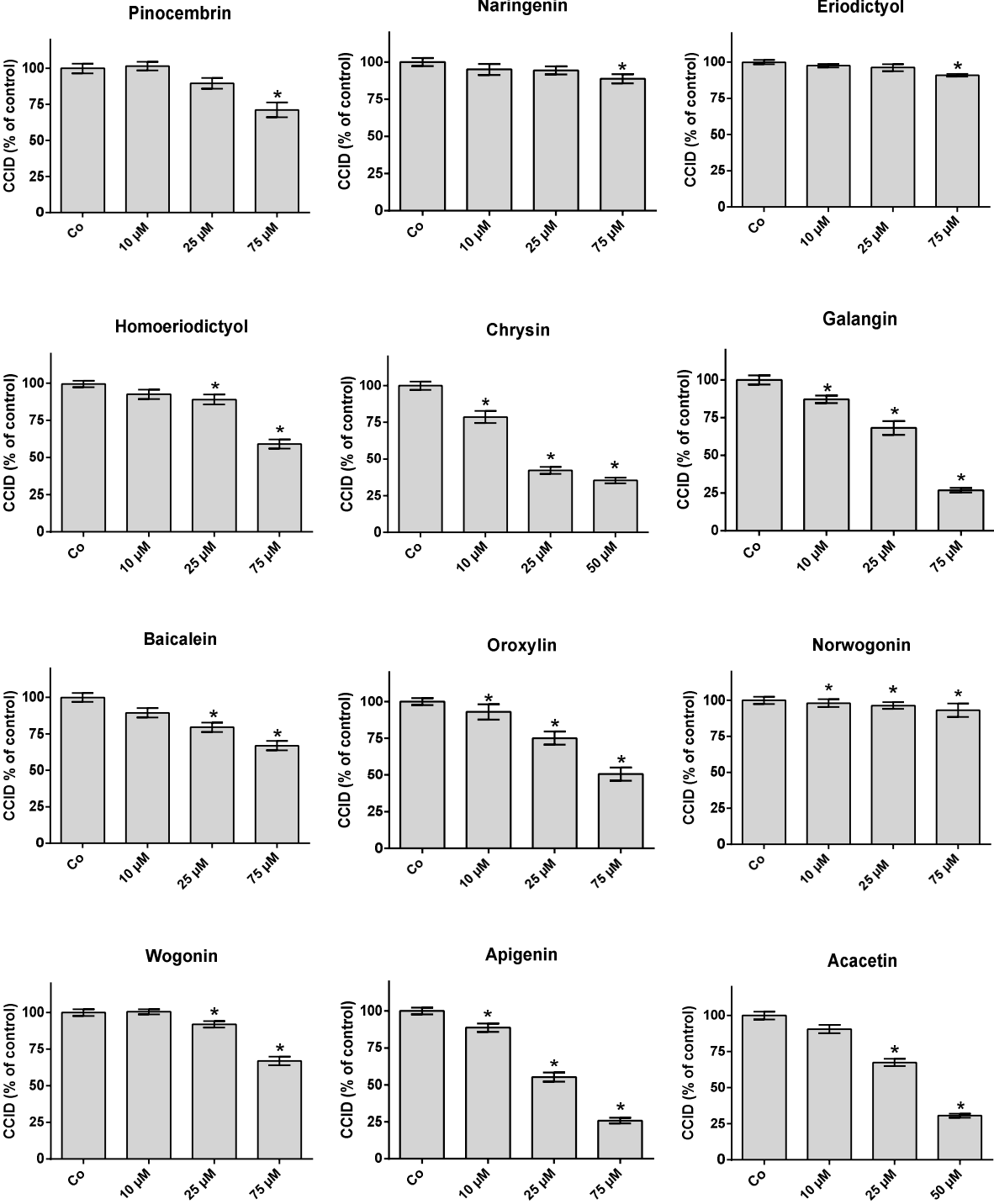


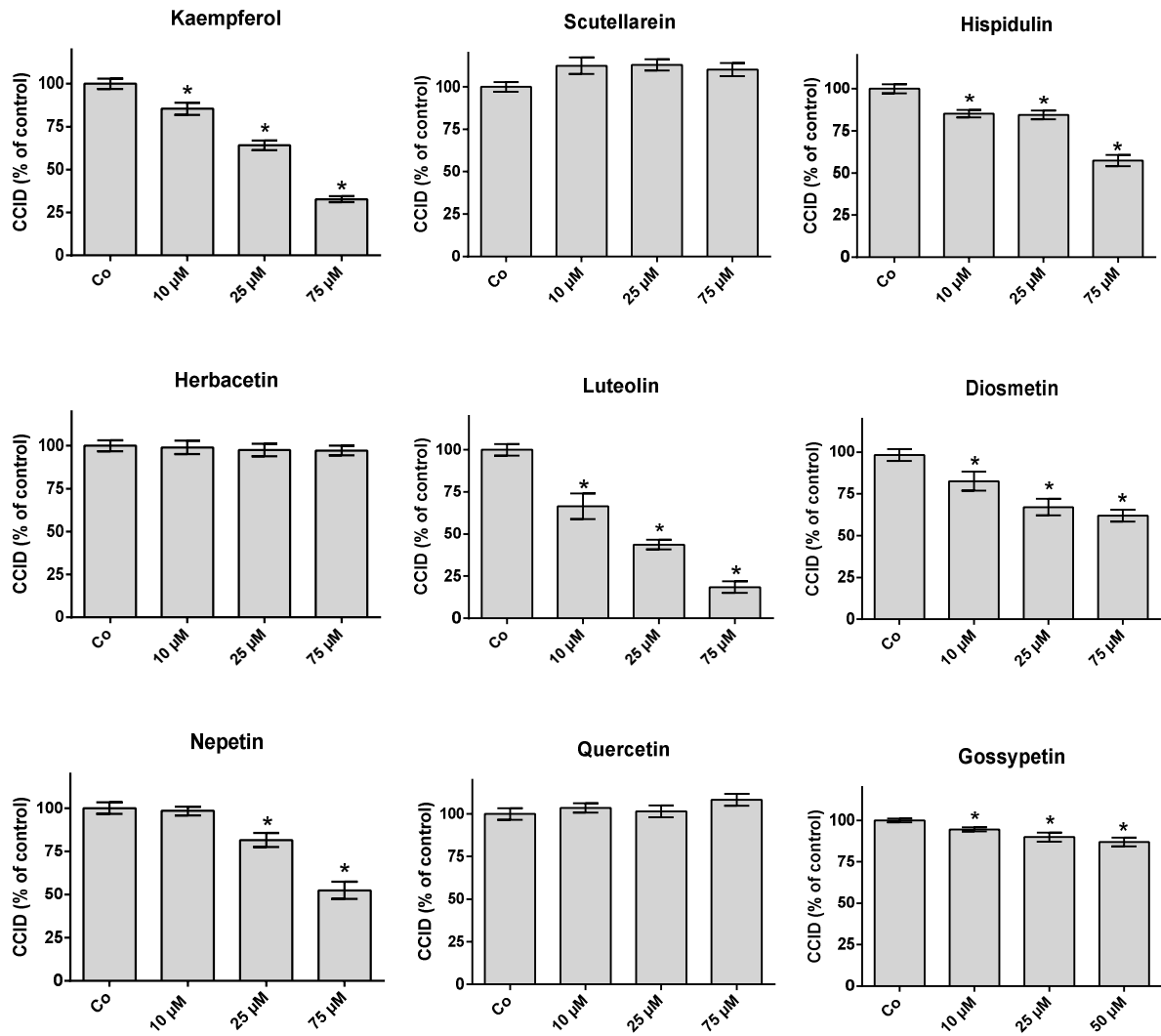
Supplemental figure 1: Lymph-endothelial marker expression in LEC



Immunofluorescence: Cells were grown on glass chamberslides and fixed with 2% paraformaldehyde for 20 min at 20°C. After rinsing in phosphate-buffered saline and blocking with 5% goat serum the cells were stained with primary antibody against (a) CD31 to verify endothelial cell type, and (b) LYVE-1, (c) PROX1 and (d) podoplanin to demonstrate the lymphendothelial origin. Scale bar 100 μ M

Supplemental figure 2a: Treatment of the MCF-7/LEC model with flavonoids

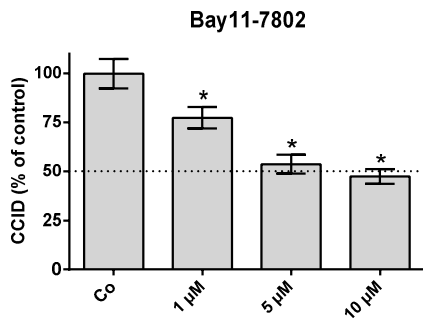




Analysis of flavonoids on CCID formation

MCF-7 spheroids were placed on LEC monolayers and treated with solvent (DMSO, Co) or with the indicated flavonoid concentrations for 4 h when CCID areas were measured using an Axiovert microscope and Zen little 2012 software. At least 12 replicates were analyzed. Error bars indicate means \pm SEM and asterisks and rhomboids significance ($p < 0.05$; ANOVA and Tukey's post hoc test).

Supplemental figure 2b: Treatment of the MCF-7/LEC model with Bay11-7802



Analysis of NF- κ B inhibitor Bay11-7802 on CCID formation

MCF-7 spheroids were placed on LEC monolayers and treated with solvent (DMSO, Co) or with the indicated concentrations Bay11-7802 for 4 h when CCID areas were measured using an Axiovert microscope and Zen little 2012 software. At least 12 replicates were analyzed. Error bars indicate means \pm SEM and asterisks and rhomboids significance ($p < 0.05$; ANOVA and Tukey's post hoc test).

Supplemental Figure 3: Correlation of logP values (o/w) and pIC50 values of 13 flavonoids which showed activity in the CCID assay

