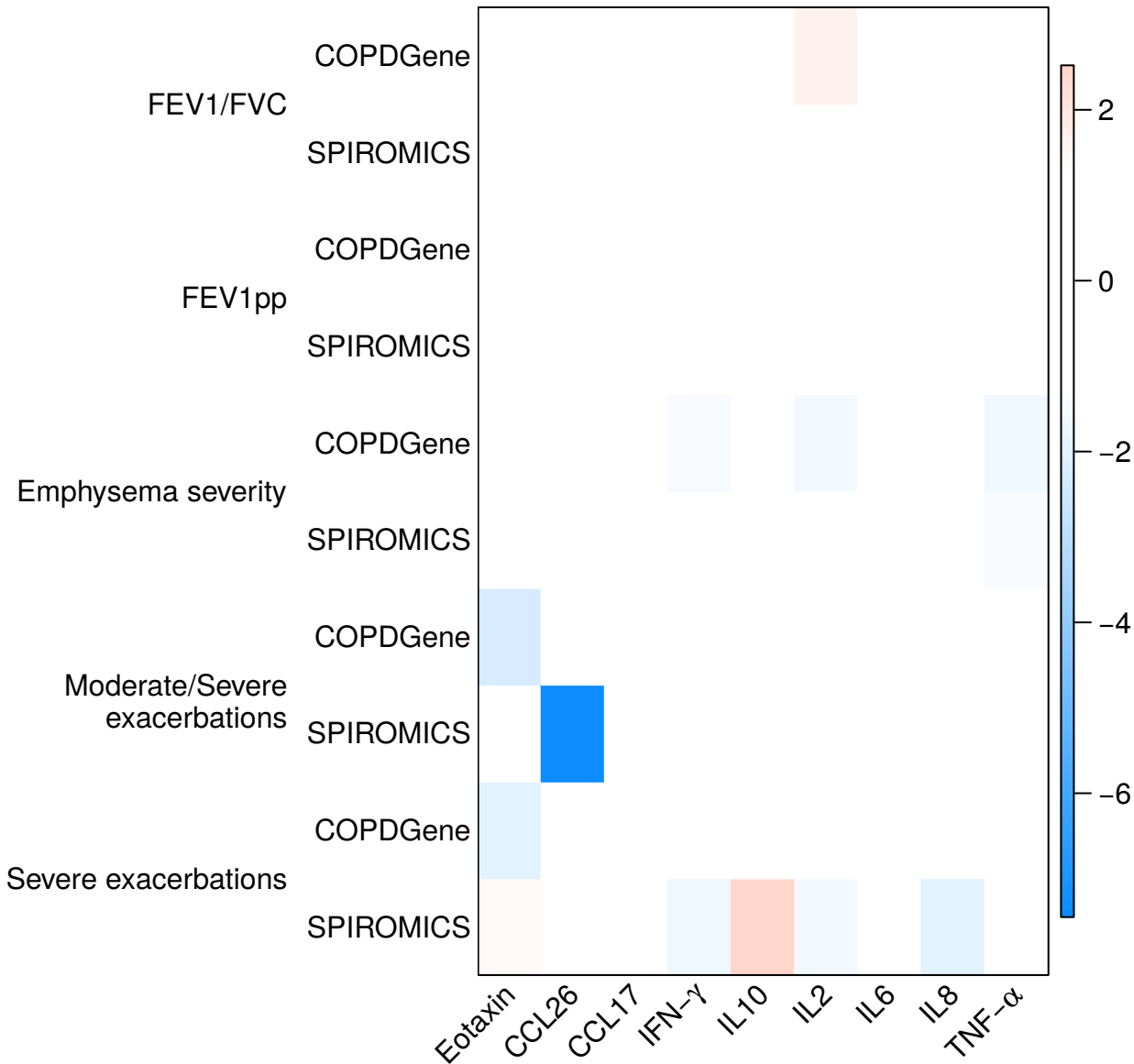
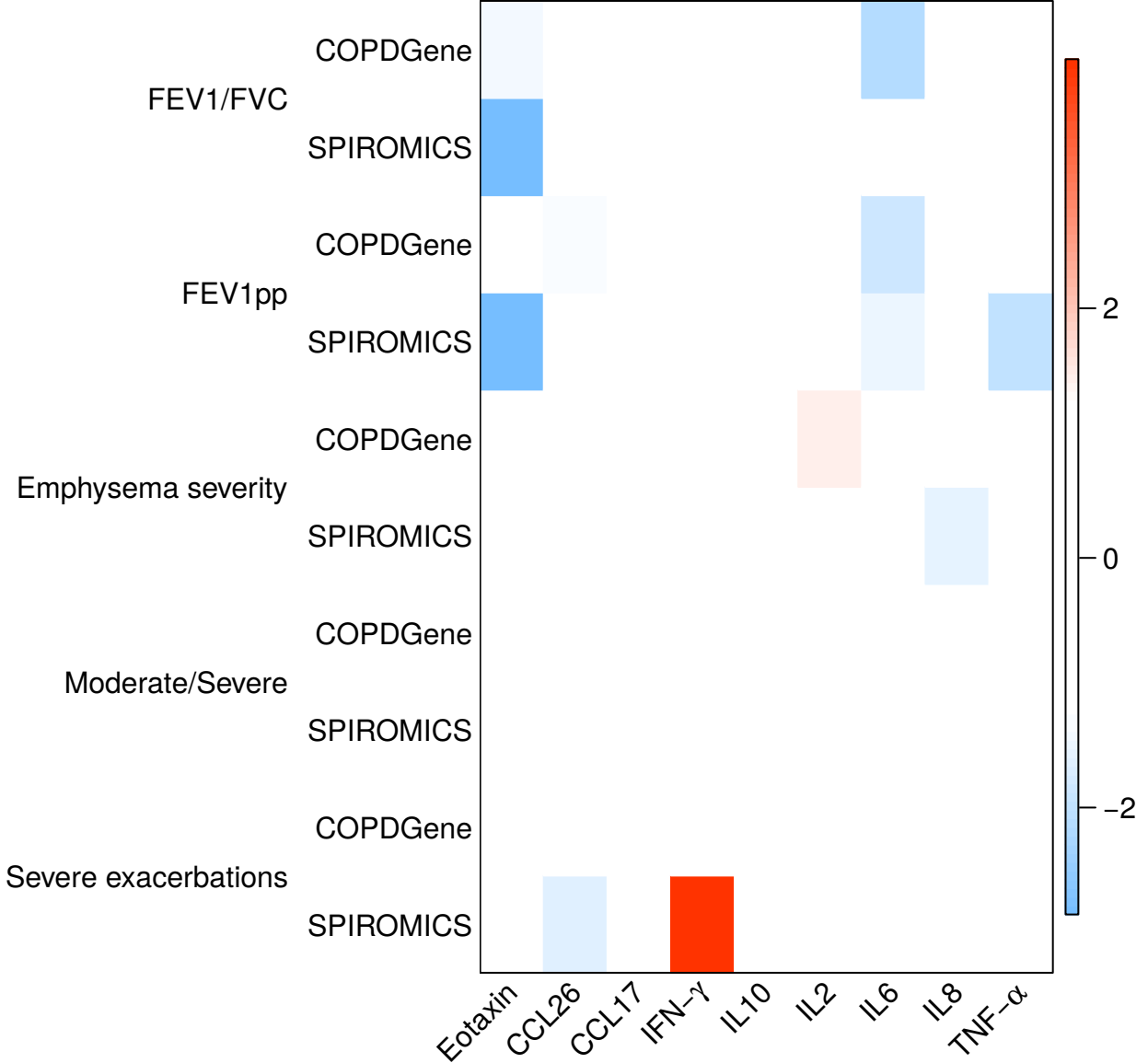


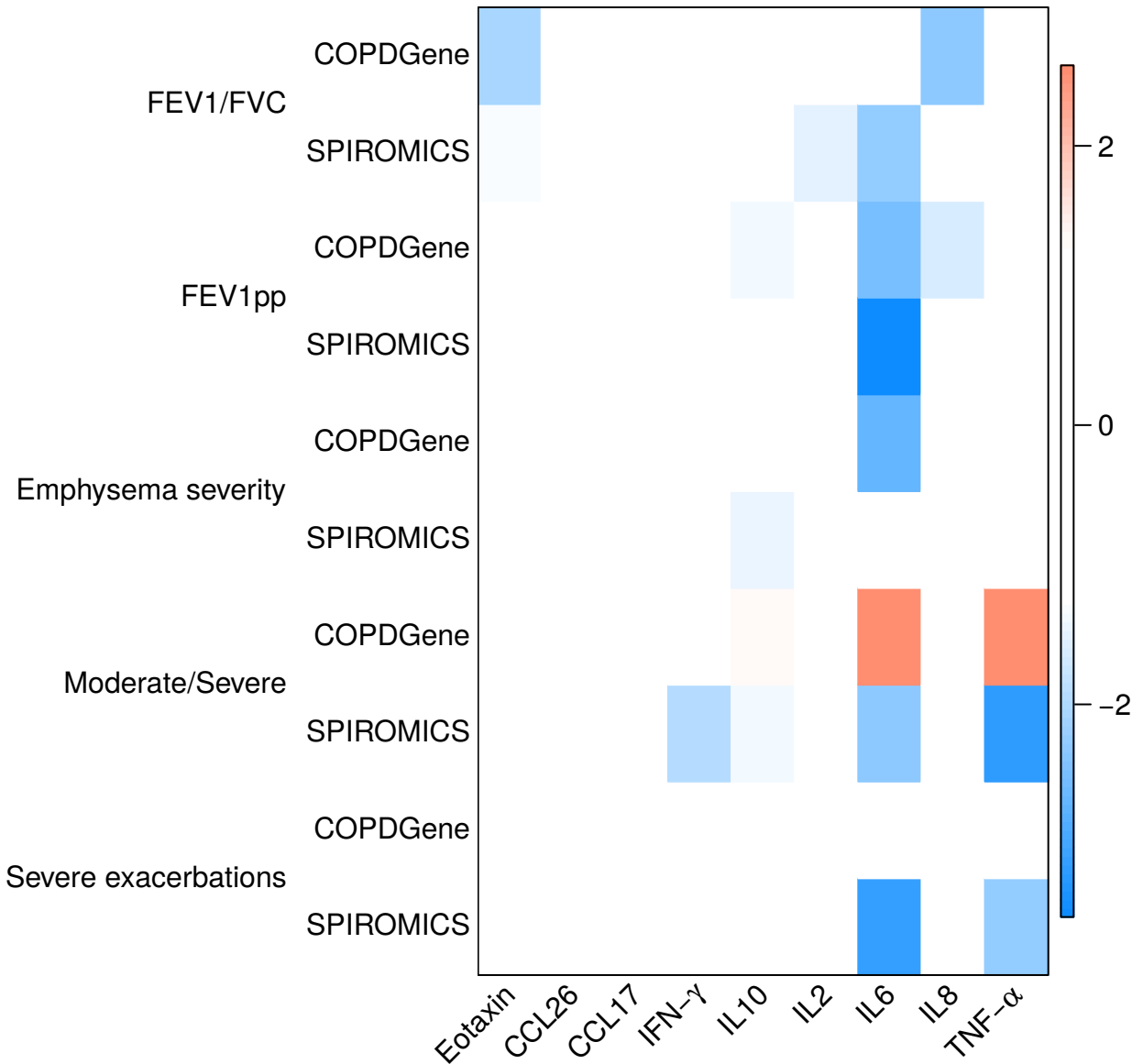
Cross Sectional Associations in COPDGene (N = 112) and SPIROMICS (N = 91) Subjects with Bronchitis and Emphysema



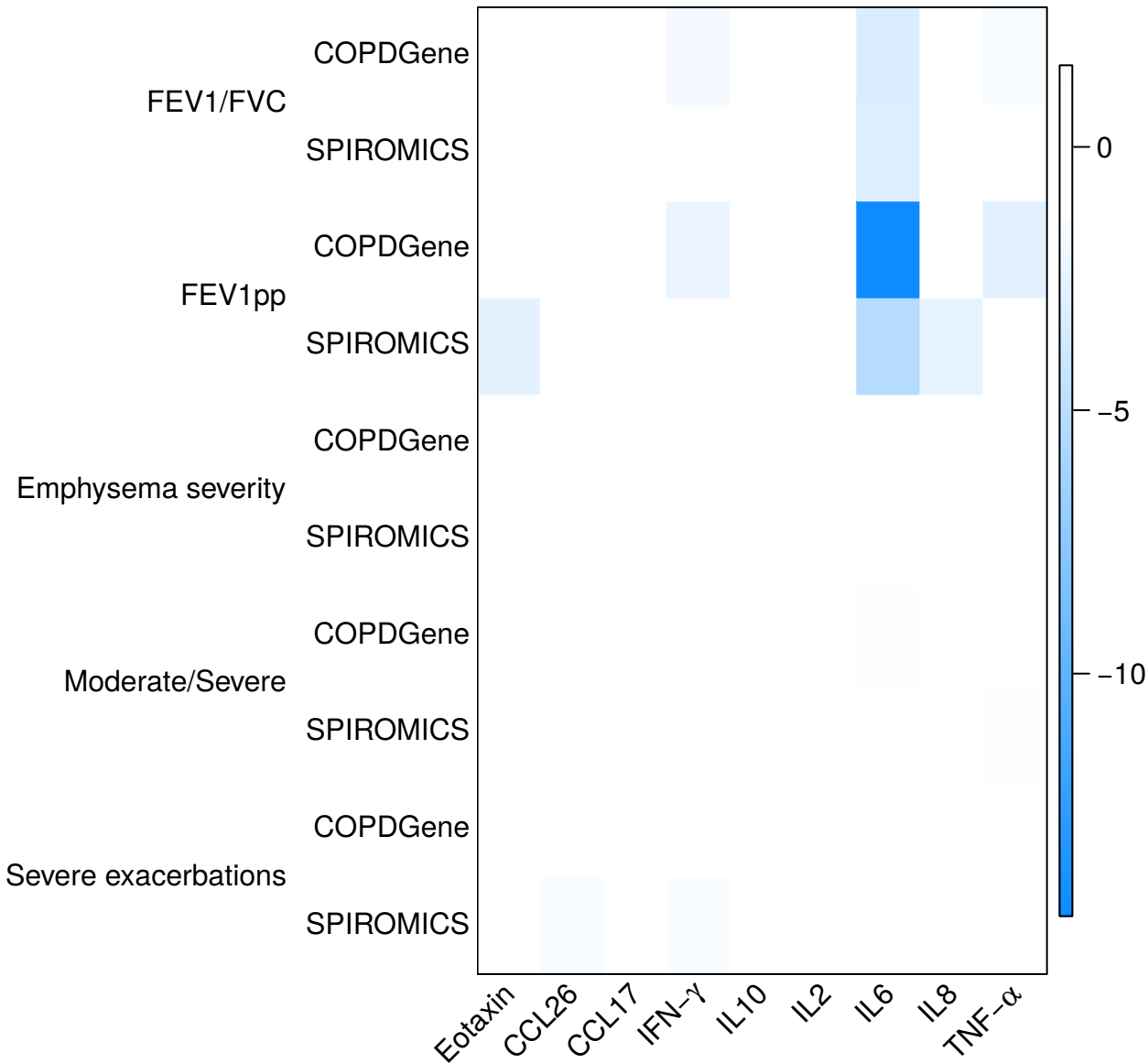
**Cross Sectional Associations in
COPDGene (N = 157) and SPIROMICS (N = 142)
Subjects with Bronchitis and no Emphysema**



**Cross Sectional Associations in
COPDGene (N = 462) and SPIROMICS (N = 293)
Subjects with no Bronchitis and with Emphysema**



**Cross Sectional Associations in
COPDGene (N = 1137) and SPIROMICS (N = 556)
Subjects with no Bronchitis and no Emphysema**



**Cross Sectional Associations in
COPDGene (N = 503) and SPIROMICS (N = 362)
Subjects with no COPD and with Emphysema**

