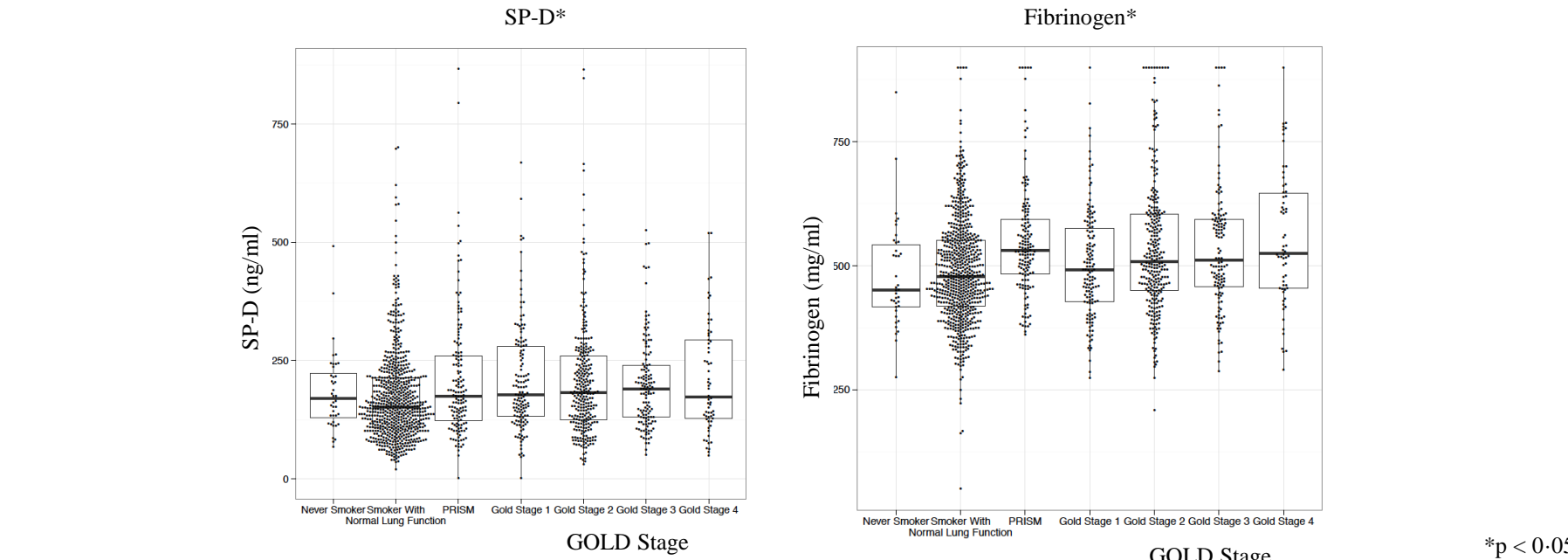
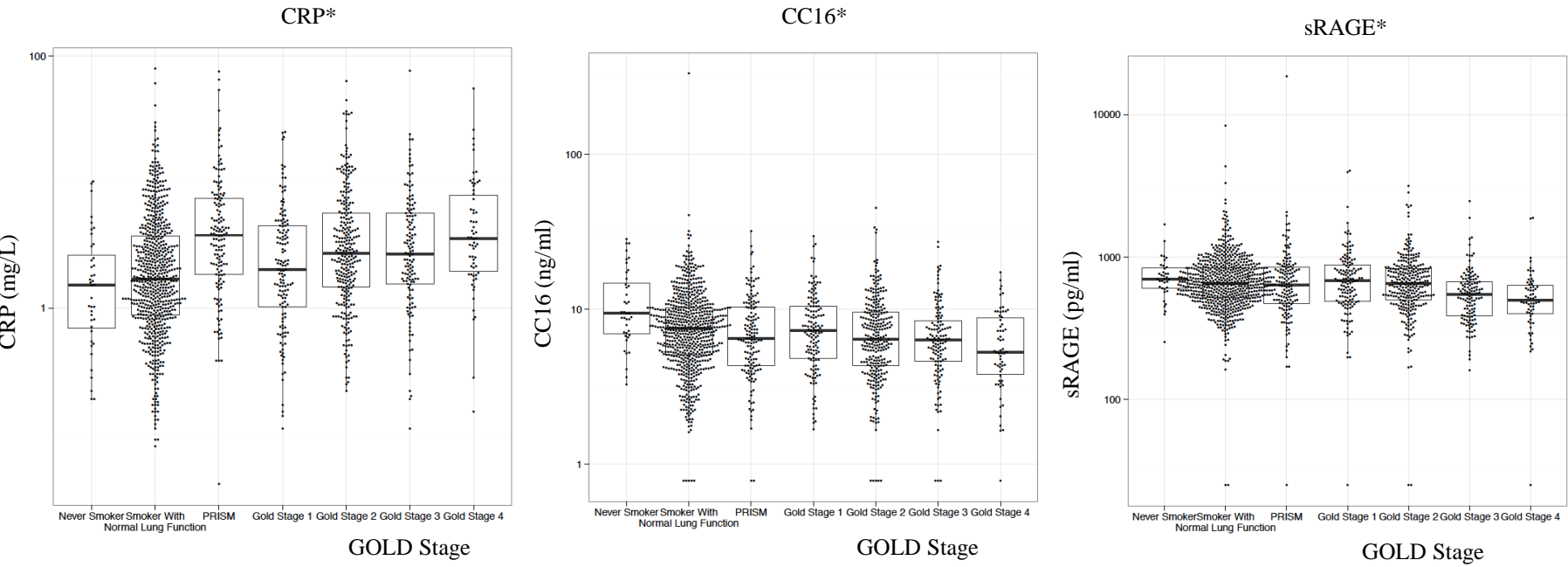
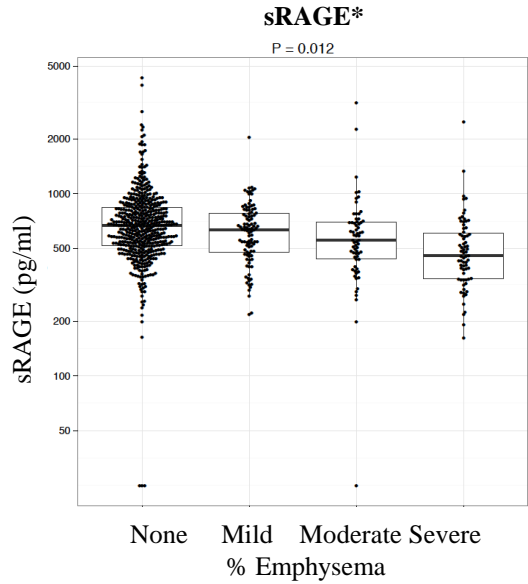


**Supplemental Figure 1. Relationship Between Individual Biomarkers and FEV<sub>1</sub>.**



\*p < 0.05

**Supplemental Figure 2. Relationship Between Individual Biomarkers and Emphysema.** Analysis performed by ordinal logistic regression. Covariates were FEV<sub>1</sub>, age, smoking status, gender and BMI. % Emphysema defined as % of voxels with HU < -950. \*p<0.01.



**Supplemental Fig. 3. Distribution of Biomarkers: COPDGene.** Biomarkers are Log Normally Distributed.

