Differential Involvement vs Differential Expression (Smoker Controls to COPD Patients **ECLIPSE COPDGene GABPA** ⊕ELK1 E2F4 GABPA ELK4 NRF1 30-ELK1 ZBTB33 ĘLK4 E₂F₁ -log(p-value) ESR1 E2F4 INSM1 EBF1 MYOD1 NRF1 TCF3 ZBTB33 RFX2 RFX5 **CTCF** ZNF263 ment, **CEBPB** BCL6 GATA3 GATA3 0.01 Involver LGRC LTCOPD 0.00 RFX1 **GABPA** RFX2 -0.01 -0.02 ELK4 Differential ⊖ELK1 ESR1 E2F4 PLAG1 EBF1 E2F4 NRF1 ZBTB33 **CTCF** JUNB INSM1 TFAP2A NR2C2 10-FOXH1 GF11 MEIS1 **₽MZF1** ESR2 E2F3 ZNF143 **ERG** GABPA USF2 RUNX 1 HSF₁ **GATA3** RUNX2 0.0 2.5 Differential Expression, LIMMA -log(p-value) 12.50.0 10.0 12.5