**Supplementary file 6. Multivariate analysis of FEV1/FVC**

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| **FEV1/FVC** |
| **Model** | **Explicative****variables** | **Coefficient** | **Standard error** | **T-value** | **P value** |
| R2= 0.39, Adjusted R2= 0.35P = 0.0009F = 9.04Residual standard error = 0.12 | Interacting cells densityDensity of mixed cells clusters | -0.00250.00230 | 0.0006 0.0011  | -4.02.2 | 0.00040.04 |