**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= 0.35  P = 0.0009  F = 9.04  Residual standard error = 0.12 | Interacting cells density  Density of mixed cells clusters | -0.0025  0.00230 | 0.0006  0.0011 | -4.0  2.2 | 0.0004  0.04 |