**Supplementary file 3. Association between interacting cell density and clinical characteristics**

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|  |  |  | **Interacting cells density (D8)** |
|  |  | **Spearman r** | **95% confidence interval** | **P value** |
| Age (yrs.) | -0,17 | [-0.50 to 0.20] | 0,34 |
| Body-mass index (kg/m2)Pack years (no.)**LFT** FEV1 (% pred.) FEV1/FVC ratio (%) FVC (% pred.) RV (% pred.) TLCO (% pred.)**Six-minute walk test distance (m)****Arterial blood gases**PaO2 (mm Hg)PaCO2 (mm Hg)**CT parameters**Bronchi:WA4%WT4 (mm)WA5%WT5 (mm)Emphysema:LAA (%)Air trapping:MLA E (HU)MLA I (HU)MLA I-E (HU)Pulmonary Vessels%CSA<5%CSA5-10CSN<5CSN5-10 | -0,130,22-0,38-0,37-0,270,15-0,50-0,250,250,360,040,020,110,170,30-0,39-0,380,02-0,39-0,22-0,32-0,39 | [-0.47 to 0.24][-0.16 to 0.55][-0.65 to -0.02][-0.64 to -0.02][-0.57 to 0.10][-0.22 to 0.48][-0.74 to -0.16][-0.60 to 0.18][-0.13 to 0.57][-0.01 to 0.64][-0.36 to 0.43][-0.38 to 0.41][-0.30 to 0.49][-0.24 to 0.53][-0.08 to 0.60][-0.69 to 0.026][-0.66 to 0.001][-0.40 to 0.43][-0.66 to -0.02][-0.54 to 0.16][-0.61 to 0.06][-0.66 to -0.02] | 0,480,23**0,03****0,04**0,130,41**0,005**0,240,180,050,830,930,580,410,110,06**0,04**0,92**0,03**0,240,09**0,03** |
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