### Table S1. Description of histological and radiological findings in 34 patients of the AD-ILD group.

| Rheumatic AD (n)                              | Histological finding (n)      | HRCT pattern (n)  |
|----------------------------------------------|------------------------------|------------------|
| Anti-synthetase syndrome (8)                 | NSIP (2)                     | NSIP pattern (7) |
|                                              | Non-classifiable fibrosis (2)|                 |
|                                              | Non-diagnostic (2)           |                  |
|                                              | UIP (1)                      |                  |
|                                              | Other (1)                    |                  |
|                                              |                              | UIP pattern (1)  |
| Interstitial pneumonia with autoimmune features (8) | UIP (4)                     | NSIP pattern (4) |
|                                              | Non-classifiable fibrosis (2)|                 |
|                                              | NSIP (1)                     |                  |
|                                              | Other (1)                    |                 |
|                                              |                              | UIP pattern (3)  |
|                                              |                              | Probable UIP pattern (1) |
| Rheumatoid arthritis (7)                    | UIP (4)                      | UIP pattern (3)  |
|                                              | Non-classifiable fibrosis (1)| NSIP pattern (3) |
|                                              | NSIP (1)                     |                  |
|                                              | Non-diagnostic (1)           | Probable UIP pattern (1) |
| Systemic sclerosis (6)                      | UIP (2)                      | NSIP pattern (3) |
|                                              | NSIP (2)                     |                  |
|                                              | Not available (2)            | UIP pattern (1)  |
|                                              |                              | Indeterminate for UIP pattern (1) |
|                                              |                              | Not available (1) |
| Primary Sjögren’s syndrome (2)               | UIP (1)                      | UIP pattern (1)  |
|                                              | Other (1)                    |                  |
|                                              |                              | NSIP pattern (1)  |
| Condition                                | Other | Pattern           |
|------------------------------------------|-------|-------------------|
| Amyopathic dermatomyositis               | Other | NSIP pattern      |
| Systemic lupus erythematosus             | Other | Probable UIP pattern |
| Eosinophilic granulomatosis with polyangiitis | Other | Probable UIP pattern |

AD: autoimmune diseases, HRCT: high-resolution computed tomography pattern, ILD: interstitial lung disease, NSIP: non-specific interstitial pneumonia, UIP: usual interstitial pneumonia.

Other includes: diffuse alveolar damage, respiratory bronchiolitis, organizing pneumonia, vasculitis.