**Figure S1:** Evaluation for pleural and parenchymal fibrosis. Fibrotic changes in pleura or parenchyma of grafts on week 8 were graded with 0-4 score. (A) MINOR-J, MINOR-N and MAJOR showed comparable pleural fibrotic changes, which presented distributions with higher grades compared to SYN. (B) In parenchymal fibrosis, differences between SYN and MAJOR were observed. Bars indicate medians of values. Asterisks indicate significant differences. MAJOR; major histocompatibility antigen mismatched combination, MINOR; minor histocompatibility antigen mismatched combination, SYN; syngeneic combination.
**Figure S2:** Representative immunohistochemistry of CD3 (T cell, 25x: A, E, I), B220 (B cell: 25x: B, F, J), F4/80 (macrophage: 100x: C, G, K) and NKp46 (NK cell: 100x: D, H, L) of 8 week grafts. Scale bars indicates either 500 µm (A, B, E, F, I, J) or 200 µm (C, D, G, H, K, L). MAJOR; major histocompatibility antigen mismatched combination, MINOR; minor histocompatibility antigen mismatched combination, SYN; syngeneic combination.
**Figure S3:** Analyses of the intensity of positive cells in the immunohistochemistry on the supplemental Figure 2. Both MINOR-J and MAJOR presented distributions of CD3 (A), B220 (B) and F4/80 (C) with higher intensity compared to SYN (p<0.05). The intensities in NKp46 were comparable among the groups. Bars indicate medians of values. Asterisks indicate significant differences. MAJOR; major histocompatibility antigen mismatched combination, MINOR; minor histocompatibility antigen mismatched combination, SYN; syngeneic combination.