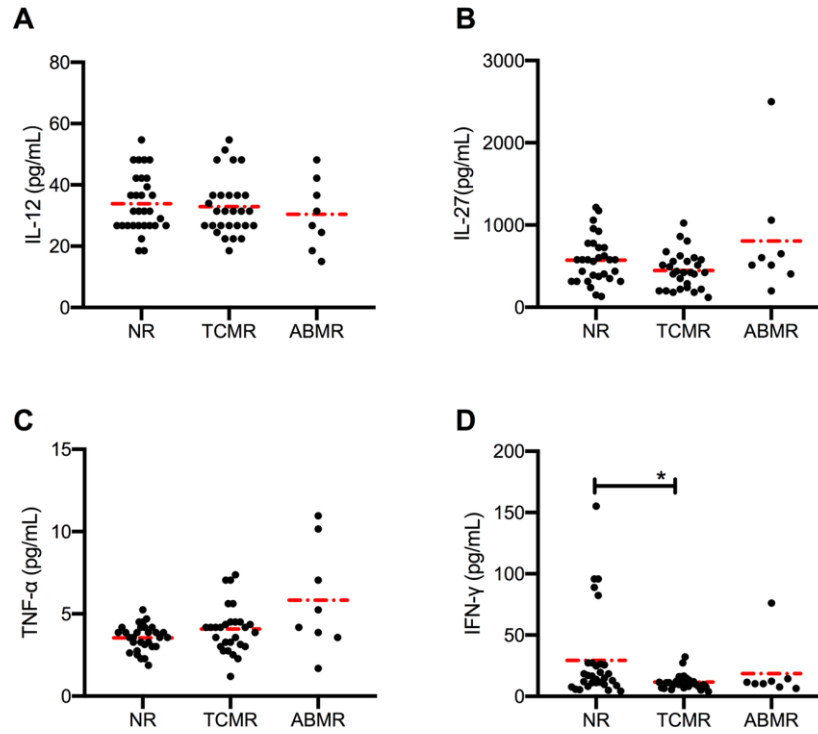
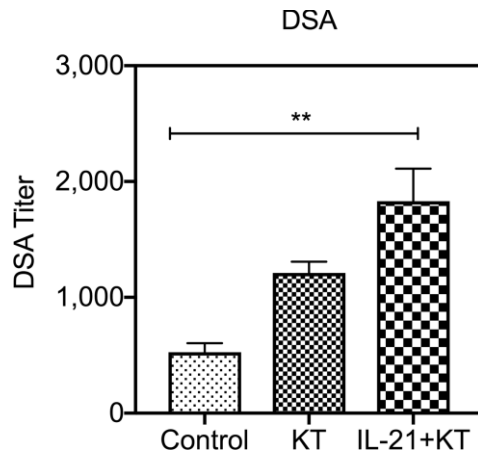


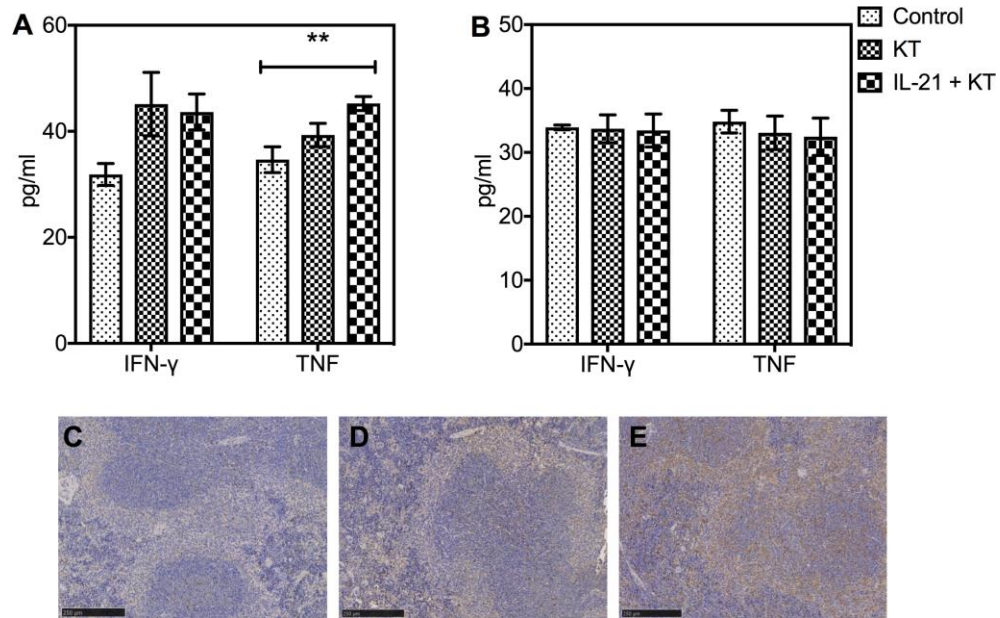
SUPPLEMENTARY FIGURES



Supplementary Figure 1. Serum cytokine levels in transplant recipients. Serum levels of IL-12, IL-27, TNF- α , and IFN- γ (A–D) in patients with NR ($n = 30$), TCMR ($n = 28$), and ABMR ($n = 8$) cohorts were measured before the anti-rejection therapy. Red dash dot line represents the mean value. * $P < 0.05$ compared with NR cohorts. ABMR, antibody-mediated rejection; IFN, interferon; IL, interleukin; TNF, tumor necrosis factor; NR, non-rejection; TCMR, T cell-mediated rejection.



Supplementary Figure 2. Higher DSA titers were observed after IL-21 administration. ** $P < 0.01$ compared with the control. DSA, donor-specific antibody; IL, interleukin; KT, kidney transplant.



Supplementary Figure 3. Exogenous IL-21 alters cytokine and IL-21R expression in mice after kidney transplantation. The levels of IFN- γ and TNF- α in (A) the peripheral blood and (B) spleen on day 7 post-transplantation were measured by CBA. The expression of IL-21R in the spleen of (C) control, (D) KT, and (E) IL-21+KT mice on day 7 post-transplantation. Values represent the mean (\pm SEM). ** $P < 0.01$ compared with the control. CBA, cytometric bead array; IFN, interferon; IL, interleukin; KT, kidney transplant; SEM, standard error of the mean; TNF, tumor necrosis factor.