



Preclinical Models of Graft-versus-host Disease (GVHD)

Graft-versus-host Disease (GVHD)

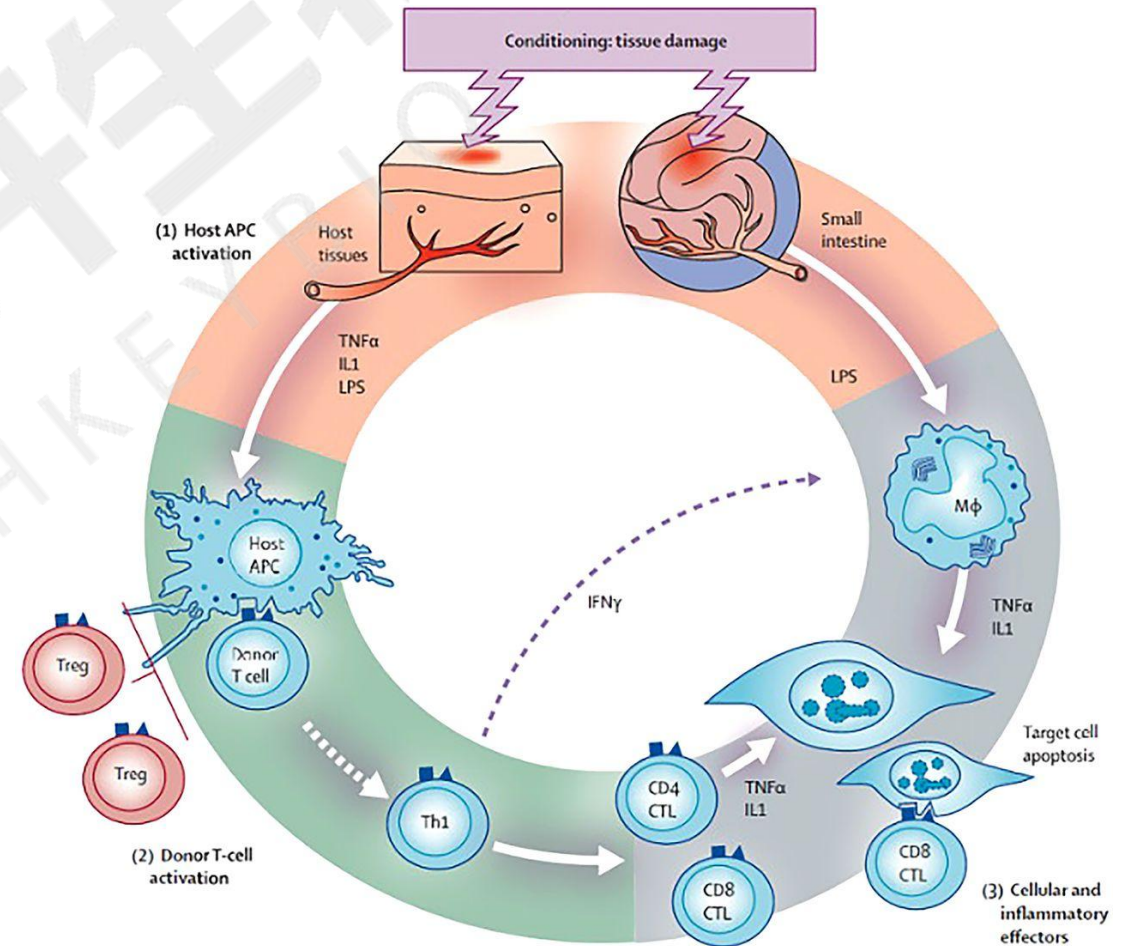
Symptoms and Causes

Depending on which organs the immune system attacks, GvHD can cause symptoms ranging from rash, diarrhea, and hepatitis to potentially life-threatening bacterial, fungal, viral, or parasitic infections.

Haemopoietic-cell transplantation (HCT) is an intensive therapy used to treat high-risk haematological malignant disorders and other life-threatening haematological and genetic diseases. The main complication of HCT is graft-versus-host disease (GVHD), an immunological disorder that affects many organ systems, including the gastrointestinal tract, liver, skin, and lungs.

Models in place:

- **Allograft lymphocyte transplantation
Induced cGVHD Model**

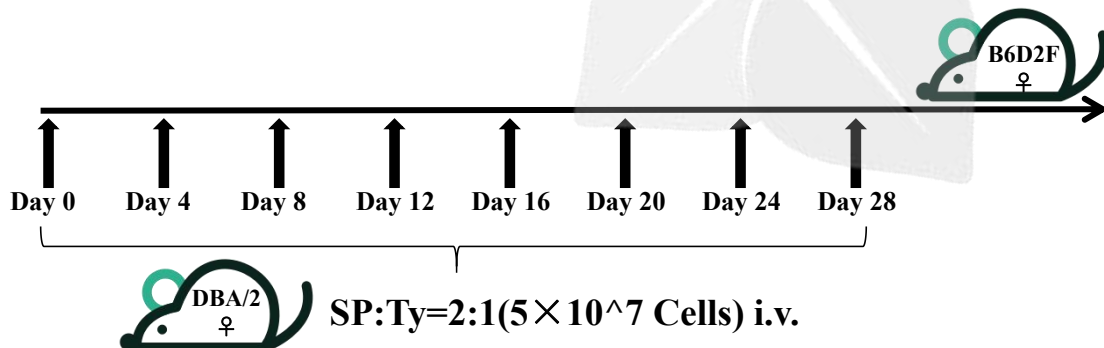


DBA/2 lymphocyte Induced B6D2F1 cGVHD Model

■ Mechanism

Autoantibody-mediated (lupus-like) cGvHD models, which exhibit a pathology similar to that of lupus, are manifested by nephritis, biliary cirrhosis, salivary gland fibrosis, lymphadenopathy, splenomegaly, autoantibody production and, to a lesser extent, skin pathology. These models are MHC mismatched and classically involve parent-to-F1 transplants that result in mixed chimerism. The most commonly studied autoantibody model is the DBA/2 → B6D2F1 model. This model results in expansion of recipient B cells, leading to lymphadenopathy, splenomegaly and autoantibody production.

■ Allograft Lymphocyte Transplantation Induced cGVHD Model



Animal	B6D2F1
Evaluation	Clinical: Body weight, survival
	Cytokine&cell: dsDNA, IgG
	Pathology: NA

DBA/2 lymphocyte Induced B6D2F1 cGVHD Model

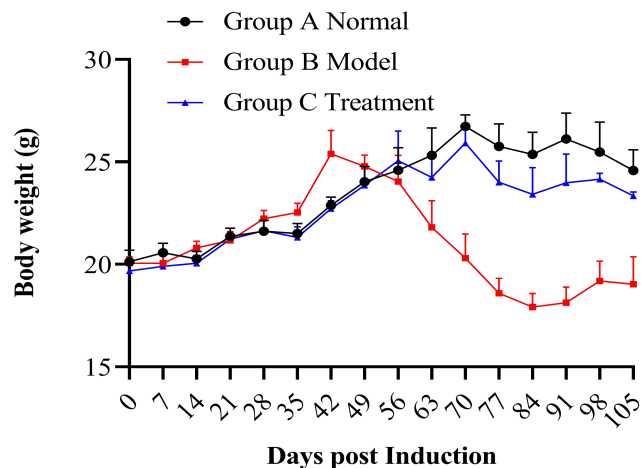


Fig 1 Body Weight

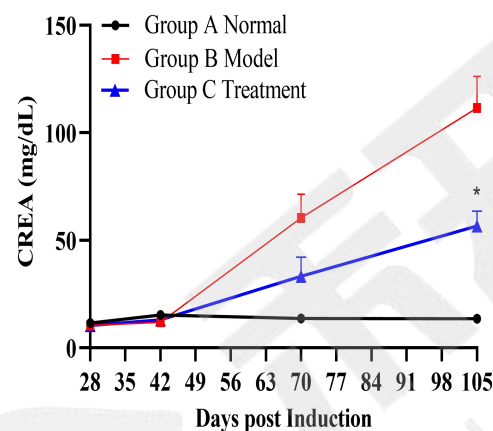


Fig 2 Blood biochemical

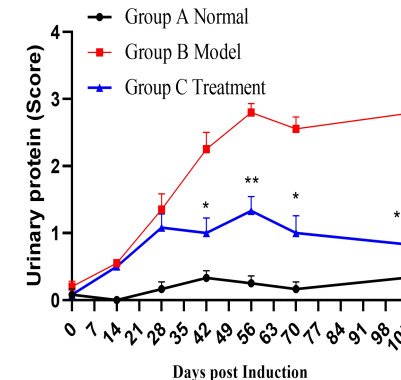
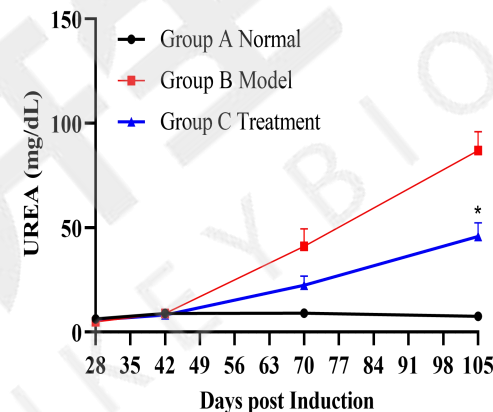


Fig 3 Urinary protein

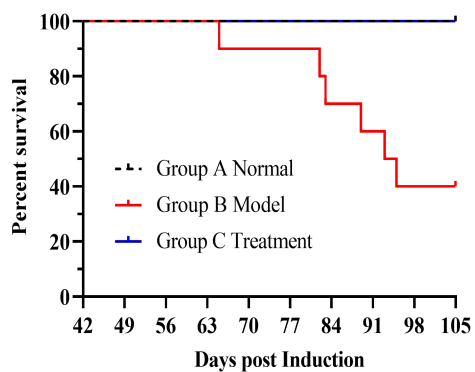


Fig 4 Survival

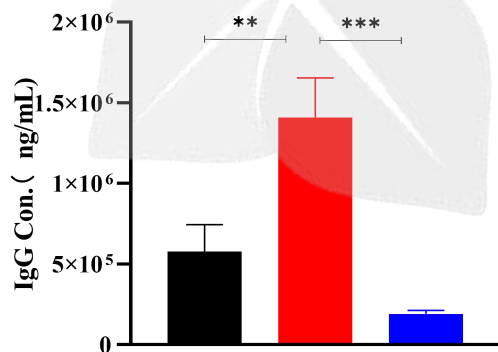


Figure 5 IgG level in serum

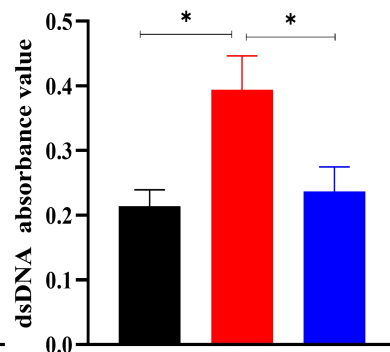


Figure 6 dsDNA level in serum

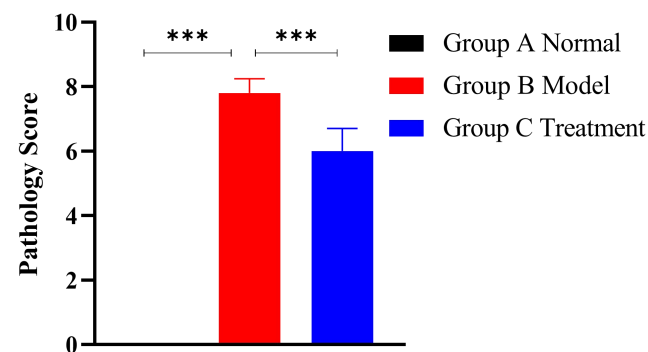
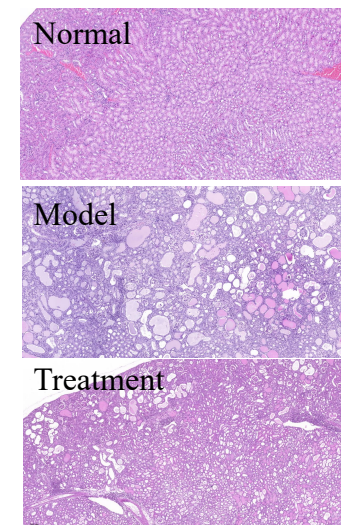


Figure 7 Pathology of kidney





Our Sites

Non-human Private Center: Guangxi
Analysis Center: Suzhou
Rodent Center: Suzhou



WeChat

Hkeybio Tech.

Website: www.hkeybio.com

Email: info@hkeybio.com