MODELS AND METHODS FOR RAPID SCREENING THE EFFICACY OF IMMUNOREGULATING DRUGS

ABSTRACT

The present invention provides a model and method for rapid screening the efficacy of immunoregulatory drugs. The method comprises constructing an animal model containing PVDF capsule tubes, and further comprises analyzing the pharmacodynamic data for the animal model in vivo, phenotype identification by paired flow cytometry and multi-omics data. The PVDF capsule tubes have cells comprising tumor cells and immune cells in a single cell suspension; wherein the tumor cells and immune cells are derived from fresh tumor tissues or body fluids of clinical patients. The animal model constructed according to the present invention can be used for immune system targeting and drug efficacy regulation screening, and drug screening for multiple patients at the same time. It provides a rapid and effective method and model for clinical precision medicine and new drug development.

Figure 1