

## IMPROVEMENTS FOR PERFORMING AND FACILITATING THE RECOVERY AFTER HEMATOPOIETIC STEM CELL TRANSPLANTATION

The present Technology developed by researchers from CIBER, CIEMAT and FIIS-FJD provides a method for enhancing hematopoietic recovery after hematopoietic stem cell transplantation (HSCT)

### The Need

HSCT is the recommended treatment for several life-threatening conditions such as leukemia and rare blood cell diseases among others.

Main bottlenecks of HSCT are HSC donor shortage and HSCT failure by infusing a reduced number of donor HSC.

### The Solution

The present invention relates to an estrogen for use in enhancing hematopoietic reconstitution after HSCT or hematopoietic progenitor cell transplantation in a subject.

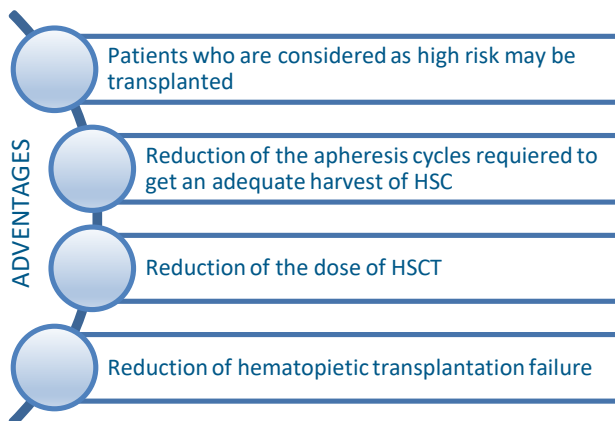
Furthermore, a method for increasing the number of hematopoietic progenitor cells and/or hematopoietic stem cells in a culture is provided.

### Innovative Aspects

The main innovative aspect is related to low doses of estrogens that can be used to enhance hematopoietic reconstitution after HSCT in a subject.

The method is also able to increase the number of hematopoietic progenitor cells and/or HSC in a culture. reconstitution in a cell culture where donor cells are being cultured.

Furthermore, the method can enhance hematopoietic reconstitution of HSC or hematopoietic progenitor cells previously treated with an estrogen for use in transplantation.



### Intellectual Property

❖ PCT application filed

### Aims

Looking for a partner interested in a license and/or collaboration agreement to develop and exploit this asset

### Contact details