

## Reprogramming the Immune System for the Establishment of Tolerance

FP6 Integrated Project Number: 512090 IP [www.risetfp6.org](http://www.risetfp6.org)

**Introduction:** Riset is a five year project , funded by the European Commission under the FP6 programme, which commenced in March 2005. The aim of the project is to develop safe and efficient *diagnostic tools* and *therapies* to induce long-term tolerance in transplanted patients, in the absence of any immunosuppression, and to achieve this by using a long-term, integrated, multistep approach. The consortium consists of 22 partners from 10 EU countries, divided into five work packages:

<b>WP1: Diagnostic Tests for Transplantation Tolerance</b>	<b>WP2: Inducing Allograft Tolerance</b>	<b>WP3: Pilot Clinical Studies</b>	<b>WP4: Dissemination, Dialogue, Ethical and Societal Issues</b>	<b>WP5: Project Management</b>
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**Pilot Clinical Studies** are currently being carried out in Kiel, Germany; Milan, Italy, and Brussels, Belgium:

**Study1:** *Lymphocytes are taken from the blood of recipients and cultured to make them tolerant and then replaced in the patient*

**Study 2:** *Immature bone marrow stem cells from the donor are treated and given to the patient*

**Study 3:** *Part of the white blood cells called monocytes are taken from the recipient, treated and replaced*

### Potential Impact of the project

- ❖ Improving health status and quality of life of organ transplant recipients
- ❖ Saving health-care costs related to transplantation
- ❖ Creating an innovative European task force to translate transplantation tolerance into clinical practice
- ❖ Building a new partnership between academia and the private sector to promote industrial activities in transplantation tolerance
- ❖ Disseminating information and providing training and education and involving patient associations and stakeholders in innovative therapies