SYSTEM FOR INDUCING AN EXTENDED HYPOMETABOLISM

ALMA MATER STUDIORUM-UNIVERSITY OF BOLOGNA INFN - ISTITUTO NAZIONALE DI FISICA NUCLEARE



lThe invention is a device combined with a composition, able to induce in human body a state of hypemetabolism, without the side effects of the therapeutic hypothermia.

Protection: Italy, with possibility to extend internationally.

Inventors: Matteo Cerri, Antonio Zoccoli, Matteo Negrini, Marco Durante.

INVENTION

The invention refers to a device and/or a combination of substances, able to induce and maintain a **chronic state of metabolic reduction** in people with consequent hypothermia. In this way, hypometabolism conditions can be artificially **maintained for long times**, without the negative physiological effects typical of therapeutic hypothermia.

This state is known as "synthetic torpor".

ANVANTAGES

- Increase in the duration of the state of metabolic reduction.
- Decrease of the negative side effects typical of therapeutic hypothermia.

APPLICATIONS

- Space extoration;
- Treat conditions such as acute radiation syndrome and reduce the side effects of anticancer radiotherapy;
- Organ harvesting.

CONTACTS

Knowledge Transfer Office

www.unibo.it/patents

+39 051 20 80 629 - 672 kto@unibo.it



