**RESEARCH & DEVELOPMENT REQUEST**

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| **CALL:** ERA Per Med - Call 2019  Joint Transnational Call for proposals (2019) for “Personalised Medicine: Multidisciplinary Research towards Implementation” |
| **Type of project:**  Transnational research projects in the field of Personalised Medicine |
| **Deadlines:**  - Call opening: 09/01/2019  - Deadline for pre-proposal submission : 07/03/2019  - Deadline for full proposals: 17/06/2019  - **Deadline for partner search: 25/02/2019** |
| **Summary of the project idea:**  Italian Research Hospital located in Piedmont Region is preparing a project proposal for the Call ERA Per Med 2019, which aims at improving the cure and methodologies for obese patients. They are looking for companies (notably an SMEs) active in the field of thermographic instrumentation or with clinical expertise in obesity.  ***Brief Description:***  There is some preliminary indirect evidence that cryo-stimulation may yield some therapeutic effects in obesity and that its anti inflammatory and antioxidant action may facilitate adaptive mechanisms of physical exercise in the obese subject. The idea of the project is to evaluate the effectiveness in terms of weight loss, body composition, energy expenditure and functional capacity of exposure to extreme cold with a cryo-chamber in patients with morbid obesity undergoing a multidisciplinary rehabilitation program. Changes in body temperature, sympatric nervous activity, lipid metabolism, inflammatory status, oxydative stress, muscle metabolism will be investigated with state-of-the-art technologies. |
| **Type of Partner Sought (SME, Research Institution, University ...)**   1. SME |
| **Role of Partner Sought:**  -Will provide morbidly obese patients with clinical expertise  -Will contribute with thermographic analyses and functional measurements with state-of-the-art technology at pre-post  -Will provide thermographic instrumentation |
| **Targeted Countries:**  Austria, Belgium, Canada, Croatia, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Israel, Latvia, Luxembourg, Norway, Poland, Romania, Spain, Sweden, Turkey |