

Università degli Studi di Padova

nanoBAT - Enhanced brown adipose tissue activity using nanotechnology approaches MSCA-RISE

The use of nanotechnology and nano-materials in biological applications is being widely explored and is considered a valuable approach to ameliorate human wellbeing. Specifically, nanoparticles and carbon nanotubes are of great scientific interest as they are currently used clinically as delivery systems for a wide range of drugs. An interdisciplinary approach that considers knowledge in chemistry, nano-materials, toxicology, physiology, molecular biology is vital for the progress of these devices and for the development of new procedures to create a novel market-ready prototype to boost human metabolism, fighting obesity and cardio-metabolic disease. An inter-sectoral approach is also required to put together Academic's technical capabilities and facilities to conduct R&D activities with SMEs' business expertise and viable supply chain to develop the prototype post project and to exploit the product in the market. Therefore, two academic (VUB and UniPD) and three industrial (INOC, IMED, ARTIA) European participants will create an interdisciplinary and inter-sectoral co-operation (nanoBAT) to design and construct a novel nanostructured delivery-L-menthol system prototype for brown adipose tissue activation. During its four years duration, nanoBAT aims to achieve research and innovation objectives via staff exchanges of experienced and early-stage researchers throughout a series of activities like: networking, research and training, workshop, innovation, dissemination, and outreach.

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Department: Medicine

Coordinator: Vrije Universiteit Brussel (Belgium)

Other Participants:

Imedica Sa (Romania)

Artia Nano - Engineering & Consulting Ike (Greece)

Inocure Sro (Czech Republic)

Università di Padova (Italy)

Total EU Contribution: Euro 864.000,00

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Project Duration in months: 48

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Find out more: http://cordis.europa.eu/project/rcn/205653 it.html