Objective

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.
Field of Science

/medical and health sciences/basic medicine/physiology
/social sciences/economics and business
/engineering and technology/nanotechnology/nano-materials
/natural sciences/biological sciences/molecular biology
/social sciences/economics and business/business and management/commerce
/engineering and technology/nanotechnology
/medical and health sciences/basic medicine/toxicology

Programme(s)

H2020-EU.1.3.3. - Stimulating innovation by means of cross-fertilisation of knowledge

Topic(s)

MSCA-RISE-2015 - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE)

Call for proposal

H2020-MSCA-RISE-2015

See other projects for this call

Funding Scheme

MSCA-RISE - Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE)

Coordinator

VRIJE UNIVERSITEIT BRUSSEL

Address

Pleinlaan 2
1050 Brussel
Belgium

Activity type

Higher or Secondary Education Establishments

EU Contribution

€ 162 000

Website

Contact the organisation

Participants (4)
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<th>EU Contribution</th>
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<td>Italy</td>
<td>€ 162 000</td>
<td>Via 8 Febbraio 2 35122 Padova</td>
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