



BROKERAGE FOR HEALTH

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Project idea/ Company expertise

PROJECT IDEA: The proposal aim is the realization of digital and personalized bio-model to monitor health status of individual patients, providing overall actionable insights at the point of care and improve quality of life during and after the cancer treatment. In detail, we will focusing on the impact of crosstalk of gut microbiome (with associated/correlated immune response) and treatment in patient psychological stress (anxiety and depression).

EXPERTISE: Characterization of the correlation between **immune response** of the host and **microbiota** in the genesis of inflammatory-related diseases, such as **Colorectal Cancer**, Celiac Disease, Inflammatory Bowel Disease, Becet Disease and Amyotrophic Lateral Sclerosis.

These pathologies are related to the key role of the Tregs and their distribution and functionality with respect to the effector T cells. The laboratory of Prof. Amedei has the facilities needed for the study of cellular/molecular immunology and microbiome.

Involvement in previous/ongoing projects in the area: Topic SC1-BHC-03-2018 - Type of Action RIA - Call Identifier H2020-SC1-BHC-2018-2020

Proposal title: MEDICaTe: MicrobiomE DiagnostiC Tools Topic

Topic

Call - Digital transformation in Health and Care

SC1-DTH-01-2019: Big data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment

As partner I'm interested also in

SC1-DTH-05-2019: Large scale implementation of digital innovation for health and care in an ageing society

And in ... Better Health and care, economic growth and sustainable health systems

Personalised medicine: SC1-BHC-01-2019: Understanding causative mechanisms in co- and multimorbidities combining mental and non-mental disorders

Infectious diseases and improving global health: SC1-BHC-14-2019: Stratified host-directed approaches to improve prevention, treatment and/or cure of infectious diseases; SC1-BHC-19-2019: Implementation research for maternal and child health

Innovative health and care systems: SC1-BHC-25-2019: Demonstration pilots for implementation of personalised medicine in healthcare

Decoding the role of the environment: SC1-BHC-28-2019: The Human Exposome Project: a toolbox for assessing and addressing the impact of environment on health

Keywords: Immune Response, Microbiome, Cancer, Infectious Diseases, Autoimmunity, Neurodegenerative Diseases

Requested partners

A consortium already exists and provides:

- Spanish Clinical partners (to enroll cancer patients)
- French cutting-edge digital technologies company

Requested partners (academic or company) with expertise in

- Next generation sequencing or Nanopore sequencing; Nanostring technology; Bioinformatic analysis
- Evaluation of the psychological/stress status of the patients (including some mental exercises to reduce the stress such mindfulness and cardiac coherence)
- Assessment of social conditions, level of education, country of origin and relative healthcare/welfare system
- Legal and Ethical expert (GDPL; patients' rights, field testing, etc) to support in the data protection and security aspects and in the definition of the ethics assessment at field testing level
- European project management in datascience



Contact details

Thank you!

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