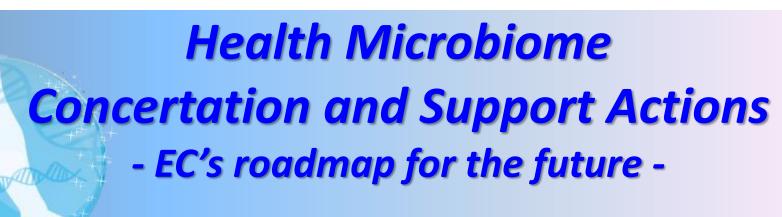


Italian National Committee for Biosafety, Biotechnology and Sciences of Life

November 26 Digital meeting - "Implementation Action Plan" (IAP) of the Italian initiative on Microbiome.



Joël Doré & Emmanuelle Maguin- INRAE, France







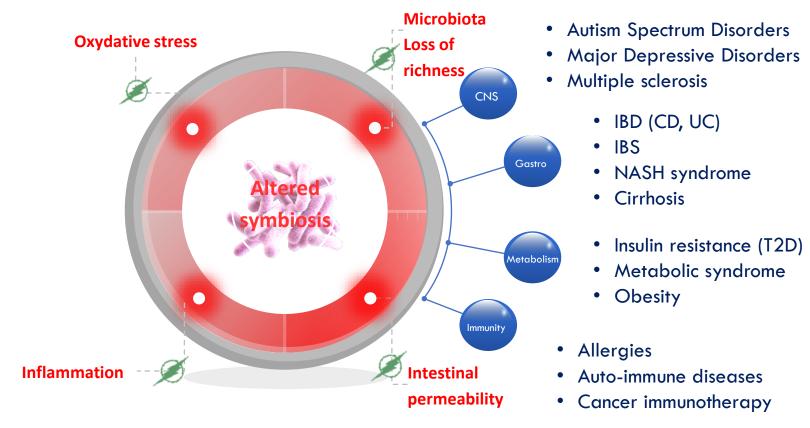


Altered host-microbes symbiosis in chronic conditions

with circular causalities

... at least
4 actionnable
levers
for:

- diagnostic,
- Monitoring,
- prediction,
- prevention
- therapy



Where nutrition targeted microbiota ...
Where medicine targeted symptoms and mainly inflammation...

Doré *Thérapie* 2017 Van de Guchte *Microbiome* 2018 Van de Guchte *Microbiome* 2020

... an urgent paradigm shift; huge opportunities towards personalized holistic approaches



International Human Microbiomes Concertation and Support Action

IHMCSA, overall mission

Joël Doré, Emmanuelle Maguin (INRAE) & Mani Arumugam (UCPH)

keep Europe at the forefront of microbiome research and innovation and maximize its impact by ensuring coherence and harmony in the way microbiome research is and will be performed

- Bringing together leading EU and international players (partners and members of its Strategic Steering Committee and Stakeholders' Advisory Board).
- Collectively developing international synergies for research and knowledge transfer in the microbiome field at EU and international levels
- Providing instruments to support a robust usage of microbiome knowledge to tackle the epidemics of chronic diseases.

International Human Microbiomes Concertation and Support Action IHMCSA approach & Key outputs

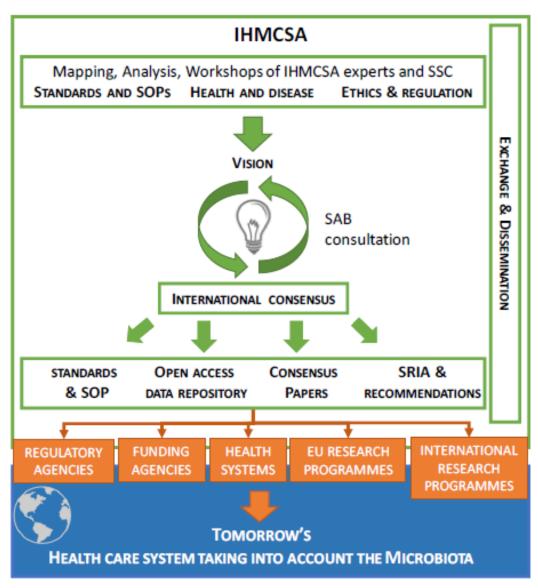
European and international stakeholders

build consensus in the field of human microbiome,
in direct collaboration with International Human

Microbiome Consortium (IHMC)

KEYS OUPUTS.

- Strategic Research and Innovation Agenda towards microbiome-based research and innovations for diagnosis and personalized prevention and treatment
- Sustainability: European Microbiome Centers
 Consortium & IHMCSA repository



International Human Microbiomes Concertation and Support Action IHMCSA Specific objectives

To map the state of play in health and clinical contexts with relevance in different countries and the necessary requirements to progress towards an increase in data comparability

To reach consensus on references across different populations

To propose actions addressing gaps, emerging fields and political priorities

3

To facilitate cooperation and promote synergistic collaboration across existing international human microbiome initiatives

International Human Microbiomes Concertation and Support Action IHMCSA overview

WP9: Coordination & Management

Pillar 1 Standards

WP1: Standardizing clinical metadata

WP2: Standardizing Human microbiome data

WP3: Standardizing analysis methods

WP7

Ethics

&

regulation

Pillar 2 References

WP4: Defining a healthy microbiome

WP5: Defining causility & confounders

WP6: Translation towards personalized clinical applications

WP8: Exchange and coordination

International Human Microbiomes Concertation and Support Action

IHMCSA Core partners

France:







Italy:





Spain:







Germany:





Belgium:



The Netherlands: ¿



Luxembourg:



Denmark:



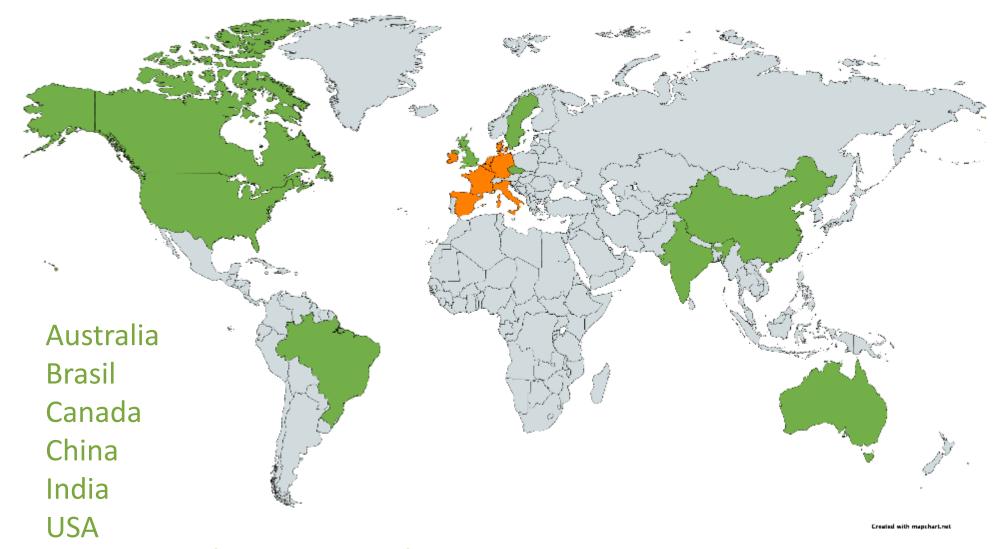


Ireland:





International Human Microbiomes Concertation and Support Action IHMCSA international connections



+ International Human Microbiome Consortium





Towards coordinated microbiome R&I activities in the food system to support international bioeconomy goals

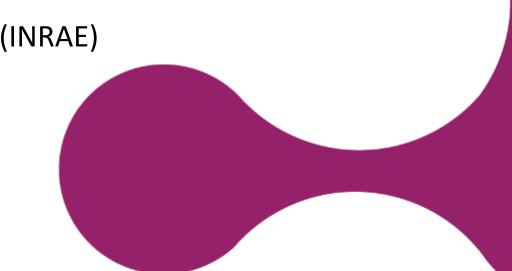
Angela Sessitch (AIT) & Emmanuelle Maguin (INRAE)

Nov. 2018-Oct. 2022





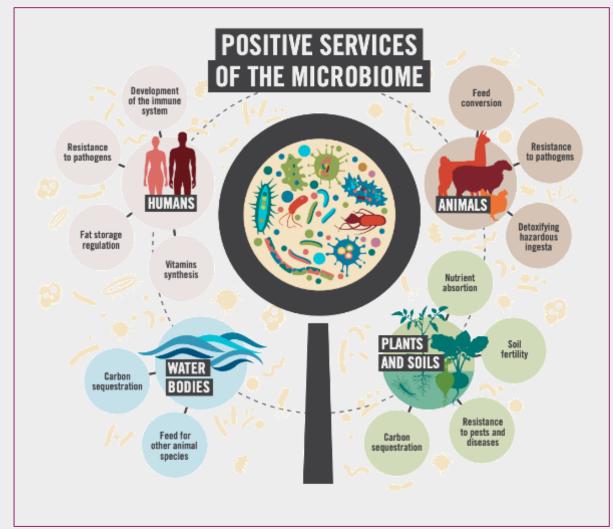


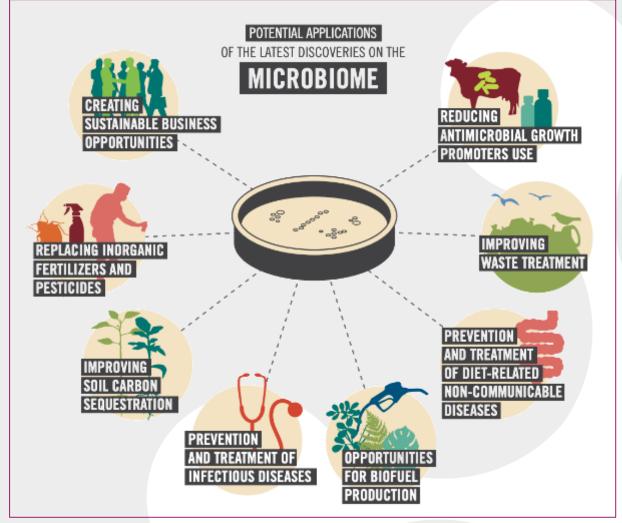




Microbiome services are enablers to transform food systems

towards more sustainability and resilience





http://www.fao.org/3/ca6767en/CA6767EN.pdf

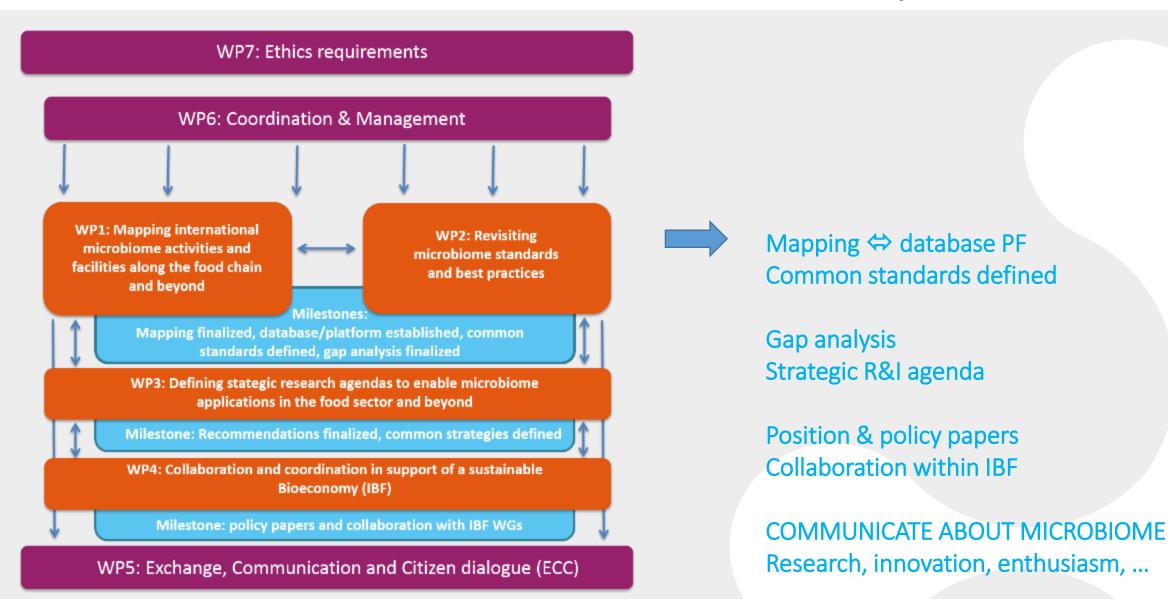


Microbiome services can contribute to the UN SDG, European green deal (Food 2030) and Bioeconomy strategies



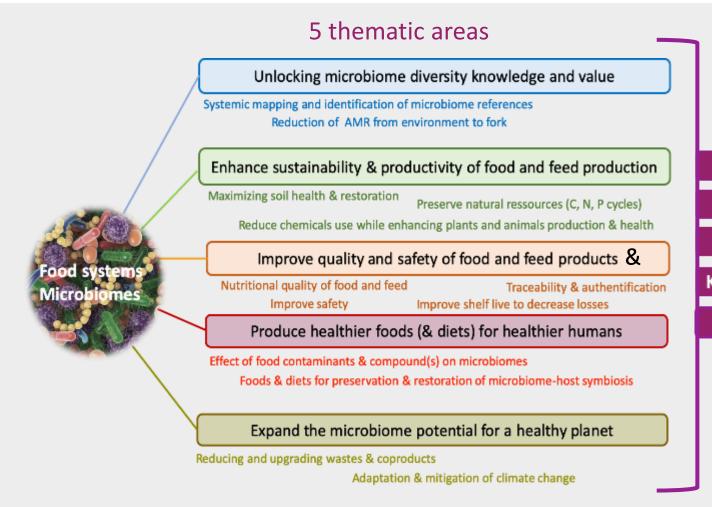


CSA MicrobiomeSupport on microbiomes for the transition to sustainable food systems





Microbiome support SRIA draft



5 transversal issues

Stakeholders and society awareness and capabilities

Open science, data access and sharing

Research infrastructures (data but not only)

Knowledge transfer and innovation (including technology dev PPP)

Regulatory science in support to regulation framework

Consultation will start in January 2021 (microbiomesupport.eu)



MICROBIOMESUPPORT Vision

MICROBIOMESUPPORT will represent THE major, internationally recognized platform for microbiome R&I related to food systems and beyond including relevant stakeholders and will substantially contribute to global bioeconomy goals



Merci de votre attention





MetaGenoPolis (MGP) is an INRAE Unit, expert in gut microbiome research applied to health and nutrition

MGP's expertise in the analysis of the gut microbiome and its implications in health & nutrition has been widely recognized in the international scientific community since 2010

> **PIA laureate: 19 M€ grant (2012-2019)** 5.7 M€ grant (2020-2025)

Launching 2021 *Le* French Gut Program – *Le Microbiome Français* French component of the Million Microbiome of Humans Project





