





In MetaGenoPolis, the platform called SAMBO is linked to the National Biobank infrastructure and provides its skills and expertise on :

- Project design and clinical trial specifications
- Stool sample management (collection, shipment, aliquoting, storage...)
- DNA extraction and storage

With the increasing demand of epidemiological and nutritional cohort studies as well as clinical trials, SAMBO has the ambition to structure a national fecal biobank.

The strengths of the platform

High quality standards

- Development of standard operating procedures for sample management
- ▶ The reference method worldwide
- ► High quality standards → ensure reliable analysis and results

Collaborative experience

- ► 6 industrial projects (2012-2014)
- ► 4 European projects :

2008-2012 : MetaHIT (UE) 2010-2014 : EvoTAR (UE) 2011-2015 : IHMS (UE) 2012-2017 : MetaCardis (UE)

► 6 ANR projects including MicroObes

Automation

- Automated process at all stages:
 - Collection,
 - Shipment,
 - Aliquoting,
 - Storage,
 - DNA extraction
- ► Sample management (LIMS)

High capacities

- Allowed to store and handle over 1 million samples
- From 20 000 aliquots handled in 2012 to 100 000 in 2014



PARTNERSHIPS







Expert assistance in project design and clinical studies specifications



Collection, shipping, aliquoting and biobanking



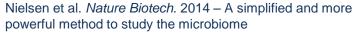
High quality DNA extraction



Collaborative projects



Some significant publications



Junhua Li et al. *Nature Biotech.* 2014 – 9.9M genes catalogue

Le Chatelier E et al. *Nature* 2013 – Richness of human gut microbiome correlates with metabolic markers

Cotillard A et al. *Nature* 2013 – Dietary intervention impact on gut microbial gene richness

Arumugam M et al. Nature 2011 - Discovery of enterotypes;

Qin J et al. Nature 2010 – Microbial genes catalogue, our second genome

Tap J et al. *Environ Microbiol* 2009 – Towards the human intestinal microbiota phylogenetic core

Sokol H et al. PNAS 2008 - F.prausnitzii and Crohn's disease



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