











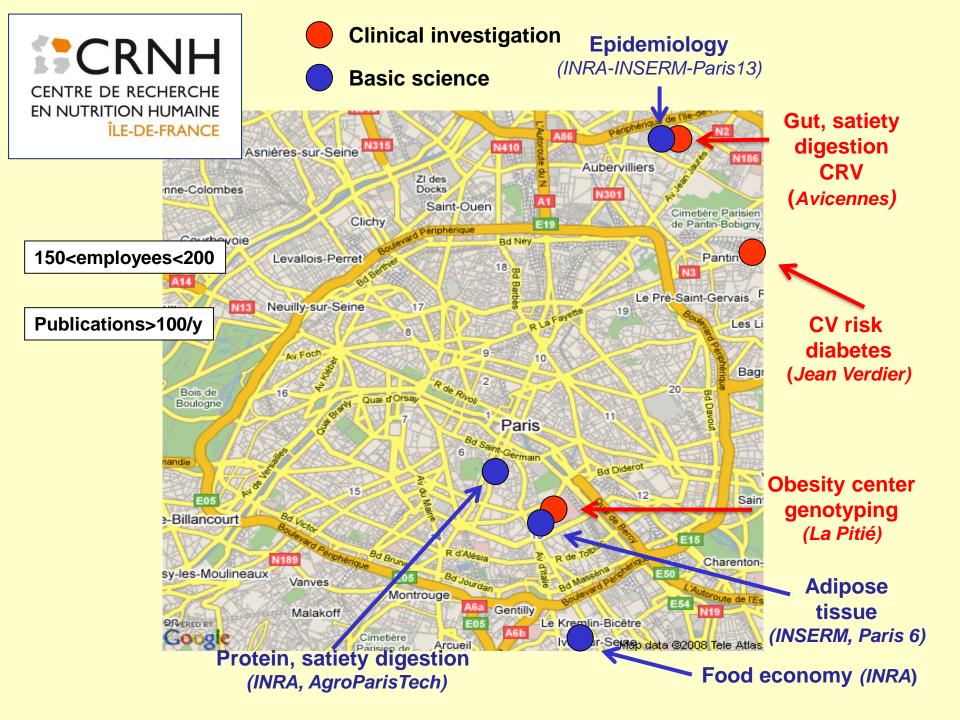
Le CRNH-IdF

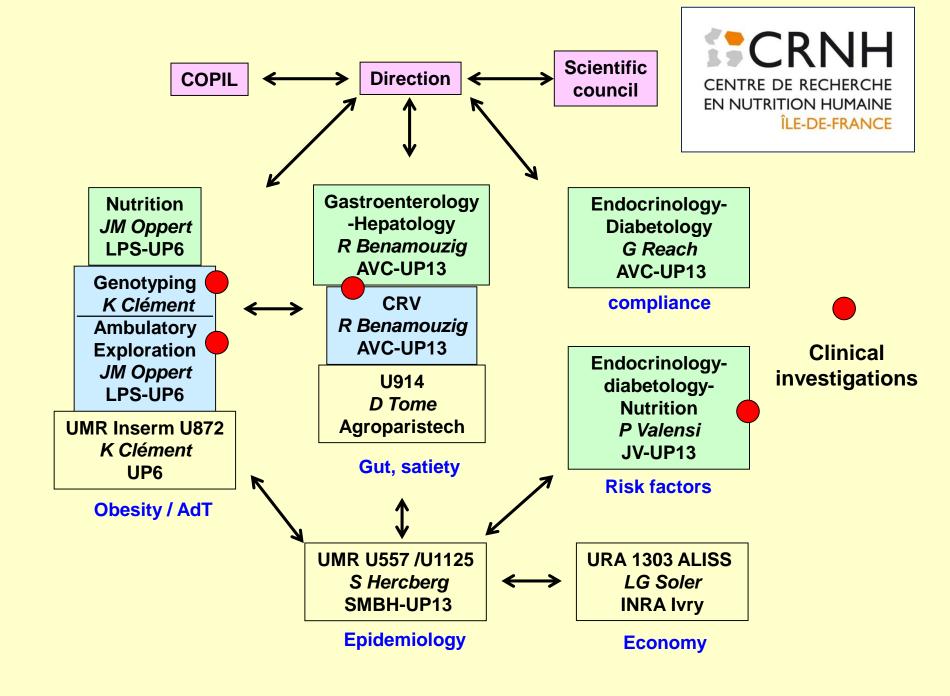
Centre de Recherches en Nutrition Humaine d'Ile de France

Alain GRYNBERG











Dietary behaviour & food consumption



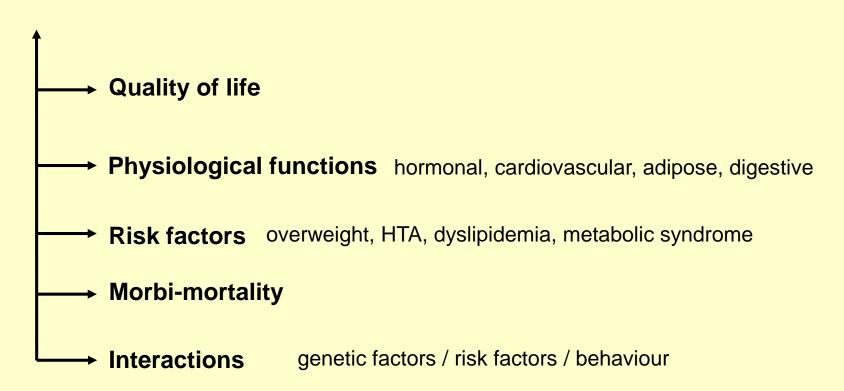


Determinant factors of behaviour on food consumption & nutritional status





Dietary behaviour & health





Prevention strategies



- Effects of information on behaviour & corpulence
- Effects of information and product characteristics on food choices
- Education strategies for health considering population specificities.
- Compliance to nutritional recommendations

Main clinical explorations available in Paris-13 sites





Indirect calorimetry



biphotonic absorptiometry



stable isotope tracers

Avicenne Pr R Benamouzig, Dr G Airinei Gastro-entero-hepatology

- ☐ 300 m2 heavy clinical exploration
- Body composition
- Ambulatory and resting energy expenditure
- Qualitative and quantitative analysis of dietary behaviour
- Metabolic & hormonal profile
- Behaviour study boxes
- ☐ Intestinal perfusion coupled to stable isotope tracers
- Gut motility and gastric emptying (stable isotopes-echography)
- Digestive tract biopsies, faecal and colonic flora

Main clinical explorations available in Paris-13 sites





Arterial compliance endothelial function



Body composition



Microcirculation by laser doppler

Jean Verdier Hospital
Pr Paul Valensi, Pr Emmanuel Cosson
Endocrinology, CV risk factors

- Body composition
- Ambulatory and resting energy expenditure
- Qualitative and quantitative analysis of dietary behaviour
- Metabolic & hormonal profile
- ☐ Insulin-resistance coupled to calorimetry
- Insulin secretion and sensibility to insulin
- Peripheral endothelial function, artery compliance and CV autonomic activity
- CV activity & echocardiography
- Non invasive AGE measurement
- Continuous glycaemic profile (G-Holter)

Main clinical explorations available in Paris 6 site









La Pitié Salpétrière Pr JM Oppert, Pr K. Clément Obesity, adipose tissue

- **☐** Unit of ambulatory exploration in obesity
- Ambulatory and resting energy expenditure
- Body composition
- Qualitative and quantitative analysis of dietary behaviour
- Metabolic & hormonal profile
- Exercice training for obese patients
- Adipose tissue phenotyping
- Functional genomic
- ☐ Genetic epidemiology, mutations & polymorphisms

The Projet: Phenotyping Harmonization



technical protocols & equipment harmonization

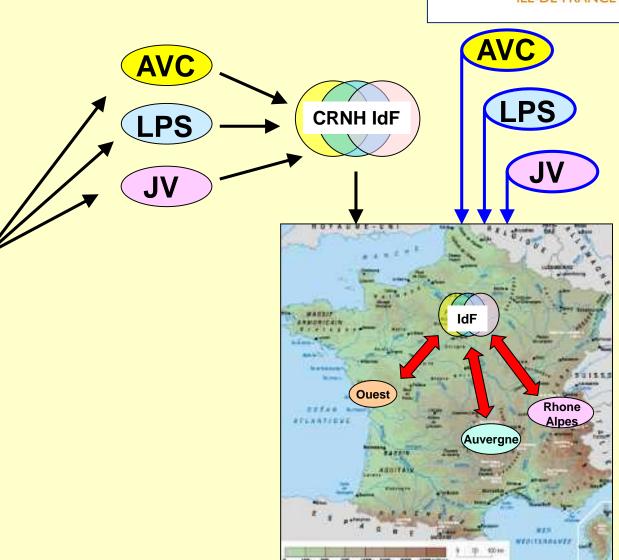
Body composition

Hormonal & metabolic profile

endothelial function

glycaemic profile

Free living investigations



The Projet: Scientific Development



Diabetes, CVD

- Subclinical cardio-vascular changes in the alterations of vagosympathetic balance in prediabetes
- Postprandial changes in the vago-sympathetic balance across the glycemic continuum from normoglycemia to prediabetes and diabetes
- Geographic origin, psycho-social deprivation and diet as predictive factors for gestational diabetes mellitus

Digestion, Satiety

- Microbiota
- Quality of the source of proteins

Obesity

Microbiota