



Lipids for Industry, SAfety and health



Acquiring further knowledge about LIPIDS and improving the methods of analysis, production, transformation and metabolism requires intensified efforts in both scientific and technological research areas. LISA Institute faces up the challenge to contribute in human health (nutrition, food safety and quality) and to consider the impact of sustainable development requirements (replacement of petrol-based products, reduction of the impact on the greenhouse effect).

LISA Institute drives research projects aiming at developing new knowledge, new technologies, products based on lipids by sharing research resources in order to improve French and European competitiveness or to address major societal needs.

→ Theme areas

- Life science
- Chemistry and Biochemistry
- Energy and Environment

→ A partnership and professional research team

Given the high demands of industry in terms of advanced research, the LISA Carnot institute runs its work on lipids on three main topics:

- **Theme 1** : Nutrition Health and Food Safety
- **Theme 2** : Health and biomolecules
- **Theme 3** : Green chemistry and bioenergy

→ Parent Institutions:

ITERG (French Institute for Fats and Oils):
www.iterg.com

IMBL (Institute for Multidisciplinary Biochemistry of Lipids) - INSA Lyon
www.insa-lyon.fr/imbl

PRES – University of Bordeaux
www.u-bordeaux1.fr/www.u-bordeaux2.fr



www.lisa-carnot.eu

→ The LISA laboratories

The LISA Carnot institute brings together 12 organisations to work on the "Lipids" domain:

■ ITERG (French Institute for Fats and Oils) :

- Analysis Unit
- Lipochemistry, Formulation & Technology Unit
- Nutrition, Metabolism & Health Unit
- Consulting & Environment Unit







■ PRES "Bordeaux University" :

- U2N (Nutrition and Neurosciences unit), Univ. Bordeaux 1 & Univ. Bordeaux 2
- U897 (Epidemiology, Public Health and Development team), INSERM/ Univ Bordeaux 2
- UMR 8508 TREFLE-LMDA (Transfers, Fluxes, Fluids, Energetics – Dispersed Food Media Laboratory) Univ. Bordeaux 1.

■ IMBL (Institute for Multidisciplinary Biochemistry of Lipids) :

- UMR 870 (Metabolic regulation, Nutrition and Diabetes) INSA-Lyon / Univ Lyon 1/ CNRS / INSERM / INRA
- UMR 5246 (Institute for Molecular and Supramolecular Chemistry and Biochemistry) ICBMS / CNRS – Univ Lyon 1 – INSA Lyon – CPE Lyon
- UMR 5123 (Molecular and Cellular Integrative Physiology) CNRS / Univ Lyon 1
- UMR 1154 (Lipid Nutrition and Functional Regulation of the Heart and Vessels) INRA / Univ. Paris XI
- UPR 9025 (Interfacial Enzymology and Lipolysis Physiology Laboratory) CNRS - IBSM - EIPL

→ The scientific and technological offer by the LISA Carnot institute

SECTORS OF ACTIVITY	THEMES	PLAYERS	INSTITUT CARNOT LISA							
Agri-food Pharmaceutical Cosmetic Chemistry Energy	NUTRITION HEALTH AND FOOD SAFETY	 Analysis Unit Metabolism Nutrition & Health Dpt Lipochemistry Formulation & Technology Unit Consulting & Environment Unit	 UMR 870	 UMR 5246	 UMR 5123	 UMR 1154	 UPR 9025	 U2N	 U 897	 UMR 8508
	HEALTH AND BIOMOLECULES									
	GREEN CHEMISTRY AND BIOENERGY									

→ Contacts

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→ Key figures

- **Staff**
Permanent staff (full-time equivalent): 115
PhD students: 53
- **Budget**
Global budget: 6 300 k€
Partnership research incomes: 1 910 k€