

Integrative Toxicology & Metabolism (ITM)

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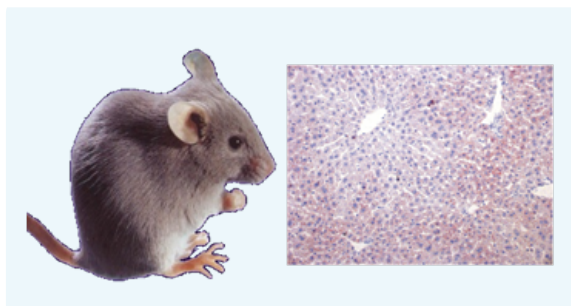
Group members: Thierry Pineau (DR1 INRA, Head of Animal Health Division), Nicolas Loiseau (CR1 INRA), Hervé Guillou (CR2 INRA), Pascal Martin (IR2 INRA), Laila Lakhal (IE2 INRA), Frédéric Lasserre (AI INRA), Arnaud Polizzi (TR INRA), Jean-Luc Viadère (TR INRA), Alexandra Montagner (Post-doc), Alice Marmugi (PhD Student), Simon Ducheix E1-E4 (PhD Student), Nabila Moussaoui E1-E4 (PhD Student), Béatrice Roques E1-E3 (PhD Student).

Nuclear receptors and hepatic metabolism

- Integrative biology (transcriptomic, metabolomic, lipidomic) to investigate the effects of food and its contaminants
- Characterization of molecular mechanisms in transgenic mice and cellular models

Ongoing research

Applied and basic toxicology



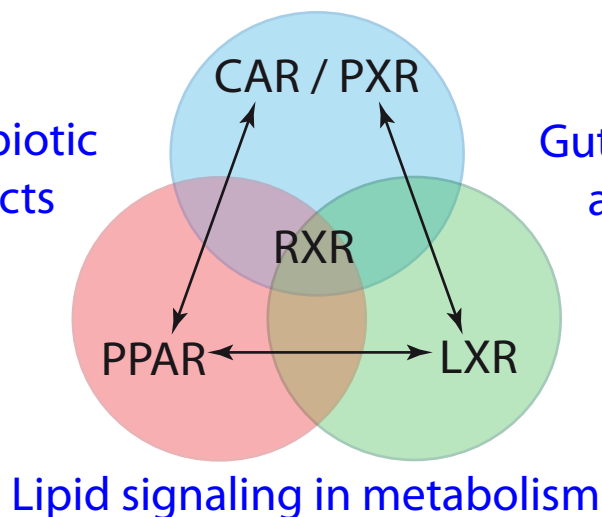
Hepatic metabolism of nutrients and contaminants

Nuclear receptor driven responses

Metabolic & endocrine disruption

Xenobiotic effects

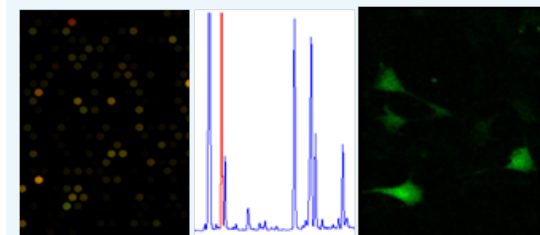
Gut-liver axis



Lipid signaling in metabolism

Know-how

Multidisciplinary approaches
Integrative biology



Transcriptional regulation
Lipid biochemistry
Metabolomic
Cell signaling
Molecular biology

Teaching : Master 2R, Toulouse University

Industrial partners : ARTERRIS, LESAFFRE

Current fundings: ANR "Perinatox" (with ToxAlim groups), ANR "Crisalis" (with C. Postic and F. Foufelle), ANR "Emotion" (with E. Chassot and N. Bodin), INRA (Support from Animal Health Department and from ToxAlim), Région Midi-Pyrénées (with R. Burcelin)

Collaborations : ToxAlim, INSERM (J. Bertrand-Michel, R. Burcelin, P. Valet, F. Foufelle), INRA (S. Lagarrigue, A. Paris), CNRS (J.M. Lobacarro, C. Postic, H. Aguilaniu), IRD-IFREMER (N. Bodin - E. Chassot), Stockholm (A. Jacobsson), Cambridge (L. Stephens/ P. Hawkins), Lausanne (W. Wahli), Chieti (A. Moschetta), Dallas (D. Mangelsdorf)