

Human Biology & Toxicology

UMONS

Prof. Jean-Marie Colet
Head

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Fields of expertise and industrial targets

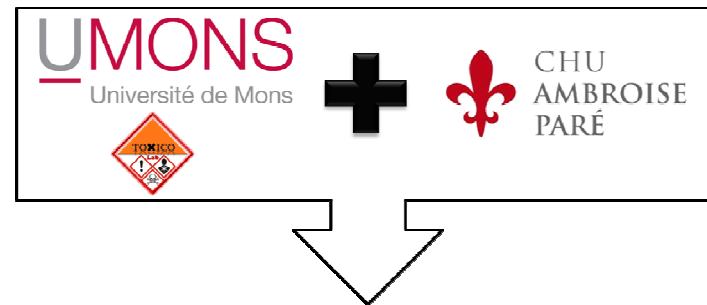
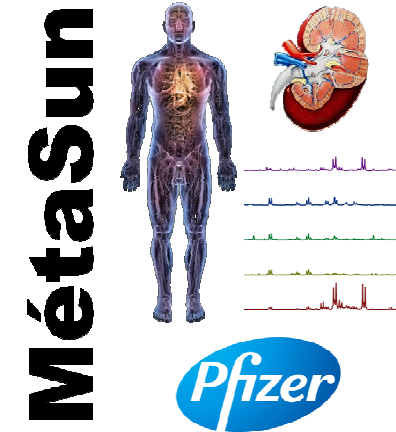
Fields of expertise

- Tools in Predictive Toxicology
- NMR-based Metabonomics (*in vitro* and *in vivo*)
- QSAR approaches (Percepta, DEREK, METEOR, ...)
- Conventional tox studies in rodents
- Risk Assessment (RTD determination)

Industrial applications fields (or companies potentially interested)

- Pharma – Biomedical – Clinical Research Groups
- Food and chemistry industry
- Academic labs involved in early development of new molecules

Applied research projects



Biomedical Profiling
Unit



Special equipments

Examples

- All equipments to conduct Metabonomics studies in rodents and on cell cultures :
- Animal facility with refrigerated metabolic cages
 - Menarini Spotchem EZ (clinical chemistry)
 - Cell culture Lab / isolated mitochondria
 - NMR spectrometers
 - Softwares for NMR data handling & multivariate data analysis

Services provided to companies

Examples

- First characterization of potential drug adverse effects (Liver, kidney, cardiac)
- Metabonomic profiling (*in vivo* α *in vitro* models)
- Biomarkers identification
- Invertebrates models for environmental risk assessment

Training proposals to companies

ITEMS

- Metabonomics training (theory + practice)
- Methods in predictive toxicology (QSAR, *in vitro* testing, ...)
- Risk assessment (RfD determination / HIA)

CONTACTS LABO

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