# Polymers for a SENS and sustainable chemistry" (PlantLipPol-SENS)

## Structuring scientific platform on the characterisation of lipids of plant origin and unprocessed and biotransformed hydrophobic polymers for green and sustainable chemistry (PlantLipPol-SENS)

## ABSTRACT

The LipPolGreen scientific platform acts at the interface between plant sciences and green chemistry. The platform proposes instruments and a scientific support for the exploration of the molecular diversity and the characterization of plant lipids and hydrophobic polymers and the analysis of associated mineral elements. For this, the platform facilities consist in dedicated high level analytical instruments (A4F-MALLS, SEC-MALLS, ICP/MS, GCxGC-MS, GC-MS, HPLC-MS), for which original methods have been developed for the analysis of molecular, macromolecular and mineral samples in organic solvents. During its first years of activity, the platform has hosted scientists, post-docs, PhD students and interns from international institutes (Brasil, Cambodia, India, Mexico, Portugal, Romania, USA, Thailand) and from the private sector.

**Year :** 2008
**Project number :** 0801-006
**Type of funding :** AAP
**Project type :** AAP
**Research units in the network :** BPMP DIADE SPO
**Start date :** 2009-02-01
**End date :** 2013-04-30
**Flagship project :** no

**Project leader :** Eric Dubreucq
**Project leader's institution :** InstitutAgro
**Project leader's RU :** IATE

**Budget allocated :** 436800 €
**Total budget allocated ( including co-financing) :** 436800 €
**Funding :** RTRA

## RESULTS

The platform is being further developed in 2013, with the support of Agropolis Fondation, by the creation of LipPolGreen-Asia, an extension hosted in Bangkok (Thaïland) by Kasetsart University and dedicated to the study of biomass of tropical origin. A complement to the Montpellier main platform, LipPolGreen-Asia will propose, starting fall 2013, high level facilities for the preparation, stabilization and pre-characterization of samples of tropical origin (HPLC-MS/MS, GC-MS, GC-FID, 1D and 2D-electrophoresis ; lyophiliser), also providing a facilitated access for researchers and students from South-East Asia to the LipPolGreen platform.