Tunisian and Moroccan Project *06TM 34*

Tunisian coordinator:

Pr. MARZOUKI M. Nejib, LIP-MB Laboratory, INSAT – University of Carthage

Morocco coordinator:

Pr. IDAOMAR Mohamed, Faculty of Science, Laboratory of Biology and Health, TETOUAN,

Project Title:

Antioxidant molecules investigation in medicinal plants, applications in therapy (2006-2008)

The Project 06TM34 Program:

The aim of the project concerns the potential analysis of biochemical molecules from medicinal and aromatic plants in Tunisian and Moroccan areas to produce bioactive substances with interesting potential in phyto-therapy.

The medicinal and aromatic plants present actually a great interest in industrialized and developed countries. These plants used in the 'traditional medicine' are more and more requested for the pharmaceutical, food and cosmetic applications. The new bioactive molecules are useful to substitute the synthetic (chemical) drugs.

In addition to their efficiency in phyto-therapy, these plants are now known for their antioxidant properties. Thus, our study aims to search medicinal plants in the Tunisian and Moroccan region with an anti-genotoxic potential and particularly antioxidant/anti-carcinogenic power.
The approach concerns the preparation of plants extracts with variable solvents and identification and structural analysis of antioxidant molecules with appropriate techniques: HPLC, LC-MS, GC-MS, NMR….. Therefore, we project to investigate bioactivities of prepared substances.

Progress of medicinal and aromatic plants cultures will promote manufacturing in Pharmacy and Food domains. Yet, it will contribute to the preservation and conservation of medicinal and aromatic plants and help to the sustainable development.