

SIMI SCIENTIFIC COMMITTEE

Section: Pollution Control and Monitoring

Prof. Dr Jean Louis MARTY

**Professor : Biotechnology
Institute of Technology of Perpignan
Universiye de Perpignan Via Domitia**



1987: thèse d'ETAT . Universite de Perpignan

1980: PhD Université de Montpellier

1973: Engineer in Biochemistry. INSA Lyon

The group « Biosensors » of the laboratory BAE created in 1990 by Professor Jean Louis MARTY is involved in the development of biosensors for the detection of pollutants and toxins, and for the determination of substrates in the agro food and water monitoring fields. The group has an excellent expertise in the field of biosensors using both continuous flow and batch systems, and is able to develop methods for the stabilization of biological receptors based on chemical modification, addition of organic molecules and mild immobilization methods. The group has good skills in enzymology, immobilization, chemical modification, heterogeneous catalysis; enzyme stabilization, extraction and purification of biological receptors The team is also involved in the elaboration of molecularly imprinted polymers (MIPs) to improve the specificity and the sensitivity of environmental biosensors and development of aptamers “Biosensors” team is partner of companies developing commercial biosensors like Biosentec in France, Biosensors SRL in Italy and AVANZARE in Spain

Research interest

- Stabilization of enzymes and biomolecules and immobilization on various supports;
- Development of enzyme sensors and immunosensors for the detection of pesticides and pollutants in the environment;
- Enzyme sensors, immunosensors and aptasensors in F.I.A. systems,
- Biosensors for agro-food and processing control and medical field
- Studies of additives for neutraceuticals and functional food
- Analytical chemistry
- Aptasensors, peptide sensors

Publications

	2012 → Now	Before 2012
Publications	16	22
Book Chapters	74	160
Oral Communications	42	184
Posters	35	146

Honours

Invited Professor by JST (Japan Science Technology) 2010

Invited Professor by JST (Japan Science Technology) 2007

Honorary Professor of Université de Brasov (2005)

Docteur Honoris Causa of Université de Bucarest (2000)

Direction of Thesis

Professor Jean Louis Marty was director of 28 PhD thesis , 23 in co-tutelle with Romania (6), Mexico (6), China (3), Poland (3), Japan (1), Russia(1), Morocco (1), Tunisia (1), Algeria(1) and 2 in codirection with India.

Editorial Boards

Chemosensors

Dataset Papers in Chemistry

The Open Current Process Chemistry Journal (Bentham Science)

The Open Analytical Chemistry Journal (Bentham Science)

Roumanian Biotechnological Letters

Bulletin of Transilvania University of Brasov

Chemical sensor

Journal of Analytical Methods in Chemistry

Talanta

Expert for

European Commission (projects analytical chemistry)

Irish research Council for Science, Engineering and Technology.

International Science and Technology Centre (ISTC).

Ministère de la Jeunesse, de l'Éducation Nationale et de la Recherche

Main International collaboration:

FUDAN University Shanghai, China, (Prof. B. Liu)

Medical and Dental University of Tokyo, Japan, (Prof. K. Mitsubayashi)

CINVESTAV, Mexico DF, Mexique (Dr. Roberto Guerrero)

Clarkson University, Postdam, USA (Prof. S. Andreescu)

International Center of Biodynamic, Bucharest, Romania (Dr E. Gheorghiu)

Warsaw University, Faculty of Chemistry, Poland (Prof. Trojanowicz)

Xiamen University China (Prof Sun)

Transilvania University of Brasov (Dr Badea)

BITS Pilani Goa India (Prof Sunil Bhand)