

**«Jornada de química de Catalunya i del Gran Sud-Oest Francès /
Journée de chimie de la Catalogne et du Grand Sud-Ouest de la France»
(25/11/2011)**

09.30 - 10.30 h Plenary Lecture (Sala Prat de la Riba)

Antoni Riera

From chiral ligands to drug discovery

10.30 - 11.00 h Poster Session & Coffee Break (At the Cloister)

11.00 - 13.00 h Oral Communications

Session 1 (Sala Prat de la Riba): Organic Chemistry and Bioorganic

Chairman: Ramon ERITJA (Universitat de Barcelona)

11.00 - 11.15 h *DESIGN OF PHOSPHORUS LIGANDS WITH VERY WEAK DONATING CHARACTER.*
Carine MAALIKI. Université Paul Sabatier

11.15 - 11.30 h *MEDIUM CHAIN-LENGTH ALKANE ACTIVATION UNDER MILD CONDITIONS.*
Mélanie BORDEAUX. Institut Charles Gerhardt, Montpellier

11.30 - 11.45 h *CHALLENGES AND OPPORTUNITIES FOR OLIGONUCLEOTIDE-BASED THERAPEUTICS FOR ANTISENSE AND RNA INTERFERENCE THERAPIES.*
Santiago GRIJALVO. Institut de Recerca Biomèdica (IRBBarcelona)

11.45 - 12.00 h *EFFECT OF NORTH BICYCLO[3.1.0] HEXANE PSEUDOSUGARS ON RNA INTERFERENCE: A NOVEL CLASS OF siRNA MODIFICATION.*
Montserrat TERRAZAS. Institut de Recerca Biomèdica (IRB Barcelona)

12.00 - 12.15 h *TRIAZOLOPHTALAZINE DERIVATIVES OF TRANSCINNAMIC ACID: SYNTHESIS AND ANTITUMORAL EVALUATION.* Damien VEAU. Université Paul Sabatier

12.15 - 12.30 h *SYNTHESIS OF NEW POTENTIAL INHIBITORS OF 1-DEOXY-DXYLULOSE-5-PHOSPHATE REDUCTOISOMERASE.*
Sonia MONTEL. École Nationale Supérieure de Chimie de Montpellier

11.00 – 13.00 h Oral Communications
**Session 2 (Sala Pi i Sunyer): Catalysis, coordination chemistry,
computational chemistry and analytical chemistry**

Chairman: Yolanda Cesteros (Universitat Rovira i Virgili)

11.00-11.15 h *MICROWAVE-ASSISTED RHODIUM-CATALYZED [2+2+2] CYCLOADDITION REACTIONS IN THE SYNTHESIS OF PYRIDINE DERIVATIVES*. Lúdia GARCIA. Universitat de Girona

11.15-11.30 h *Cu (I) CATALYZED HALOGEN ATOM TRANSFER RADICAL CYCLIZATION: SYNTHESIS OF HIGHLY FUNCTIONALIZED MORPHANS*. Agustín MARTÍNEZ-LAPORTA. Universitat de Barcelona

11.30-11.45 h *LIPASE-CATALYZED REGIOSELECTIVE MONOACETYLATION OF UNSYMMETRICAL 1,5-PRIMARY DIOLS*. Jean-Marie GALANO. Institut des Biomolécules Max Mousseron, Montpellier

11.45 -12.00 h *TRANSITION METAL CATALYZED UNINTERRUPTED FOUR-STEP SEQUENCE TO ACCESS TRISUBSTITUTED ISOXAZOLES*. Eric GAYON. École Nationale Supérieure de Chimie de Montpellier

12.00-12.15 h *HYPERVALENT IODINE-BASED REAGENTS IN ASYMMETRIC SYNTHESIS: THEORETICAL AND EXPERIMENTAL STUDIES*. Nicolas SUSPERREGUI. Université de Pau et des Pays de l'Adour

12.15-12.30 h *DETERMINATION AND SPECIATION OF ARSENIC BETWEEN STRUCTURAL PARTS OF THE MACROALGAE CYSTOSEIRA MEDITERRANEA SAUVAGEAU*. Albert PELL. Universitat de Barcelona

12.30-12.45 h *OPTICAL FIBER BASED MICROWELL ARRAYS TO STUDY METABOLIC RESPONSES OF SINGLE MITOCHONDRIA*. Suresh VAJRALA. Université de Bordeaux 1

12.45-13.00 h *FROM PHOSPHITE TO PHOSPHINES: C-P BOND FORMATION*. Jorge BALLESTER. École Nationale Supérieure de Chimie de Montpellier

11.00 – 13.00 h Oral Communications
Session 3 (Sala Nicolau d'Olwer): Solid State Chemistry, materials and polymers

Chairman: Nora Ventosa (Institut de Ciència de Materials de Barcelona - CSIC)

11.00-11.15 h *GEMINI-TYPE IMIDAZOLIUM-BASED GOLD NANOPARTICLES FOR DRUG DELIVERY* Mafalda RODRIGUES. Universitat de Barcelona

11.15-11.30 h *pH-RESPONSIVE BRIDGED SILSESQUIOXANE* Christophe THÉRON. École Nationale Supérieure de Chimie de Montpellier

11.30-11.45 h *NANO-STRUCTURED THIOUREA CROSS-LINKED ORGANOSILICAS* Julien GRAFFION. Institut Charles Gerhardt, Montpellier

11.45-12.00 h *PROPULSION OF NANO- AND MICRO-OBJECTS USING BIPOLAR ELECTROCHEMISTRY* Gabriel LOGET. Université de Bordeaux 1

12.00-12.15 h *BIOMOLECULES IMMOBILIZATION AS A MODELS OF CELL TAGS AND NANOBIOSENSORS*. Oriol PENON. Universitat de Barcelona

12.15-12.30 h *OCTAPROLINE AS A CHIRAL SELECTOR IN HPLC SYNTHESIS AND CHROMATOGRAPHIC STUDIES*. Arnau NOVELL. Universitat de Barcelona

12.30-12.45 h *PLASMA POLYMERIZED THIN FILMS BASED ON PHOSPHONIC ACID GROUPS AS NEW PROTONCONDUCTING MEMBRANES FOR FUEL CELL*
Joelle BASSIL. Institut Européen des Membranes. Université de Montpellier 2

13.00 - 15.00 h Lunch (Carmelitas Restaurant)

15.00 - 17.00 h Oral Communications

Session 1 (Sala Prat de la Riba): Organic Chemistry and Bioorganic

Chairman: Jordi Garcia (Universitat de Barcelona)

15.00 - 15.15 h *ADDITION OF ALLENES TO ALDEHYDES BY HIDROBORATION. A NEW SYNTHETIC APPROACH TO ISOAVENACIOLIDE*. David SANTOS. Universitat de Barcelona

15.15 - 15.30 h *A GENERAL ENANTIOSELECTIVE APPROACH TO MADANGAMINE ALKALOIDS*.
Roberto BALLETTTE. Universitat de Barcelona

15.30 - 15.45 h *SYNTHESIS OF NEW BRIDGED AND CYCLOPROPANIC ENDOPEROXIDES BASED ON AUTOXIDATION STEP*. Jérémy RUIZ. Université Paul Sabatier

15.45 - 16.00 h *STEREOSELECTIVE TITANIUM-MEDIATED ALDOL REACTIONS OF LACTATE-DERIVED CHIRAL KETONES. TOTAL SYNTHESIS OF (+)-HERBOXIDIENE*.
Miquel PELLICENA. Universitat de Barcelona

15.00 – 16.30 h Oral Communications

**Session 2 (Sala Pi i Sunyer): Catalysis, coordination chemistry,
computational chemistry and analytical chemistry**

Chairmen: Marc Taillefer (ENSCM, Institut Charles Gerhardt Montpellier, UM II) and
Thierry Durand (Institut des Biomolécules Max Mousseron (IBMM))

15.00-15.15 h *ORGANIC NANODOTS: AN ALTERNATIVE TO QUANTUM DOTS*
Aurélien HAMEAU. Centre National de la Recherche Scientifique, Toulouse

15.15-15.30 h *PREPARATION AND VALORISATION OF SILICA HYBRID SUPPORTED NHETEROCYCLIC CATALYSTS CONTAINING IMIDAZOLIUM SPECIES*

Blanca MOTOS PÉREZ. Institut Charles Gerhardt de Montpellier

15.30-15.45 h *GLYCEROL ETHERIFICATION TO POLYGLYCEROLS BY USING CALCINED HYDROCALUMITES AS CATALYSTS*. Elena PÉREZ BARRADO. Universitat Rovira i Virgili

15.45-16.00 h *NEW CHIRAL FERROCENYL P,N LIGAND: SYNTHESIS, COORDINATION CHEMISTRY AND USE IN CATALYST*. Muh-Mei WEI. Laboratoire de Chimie de Coordination, Toulouse

16.00-16.15 h *UNPRECEDENTED FUNCTIONALISED TETHERED η^5/η^6 ARENE RUTHENIUM COMPLEXES OF NPHOSPHANYLAMIDINES*. Manel KECHAOU. Université Paul Sabatier

16.15-16.30 h *PHOSPHOROUS DENDRIMERS AND THEIR USES IN SUSTAINABLE CATALYSIS* Michel KELLER. Centre National de la Recherche Scientifique de Toulouse

15.00 – 16.30 h Oral Communications

Session 3 (Sala Nicolau d'Olwer): Solid State Chemistry, materials and polymers

Chairman: Pilar Salagre (Universitat Rovira i Virgili)

15.00-15.15 h *HYBRID SILICA MATERIALS DERIVED FROM PROLINE SCAFFOLDS. APPLICATIONS IN CATALYSIS*. Amalia MONGE. Universitat Autònoma de Barcelona

15.15-15.30 h *TiO₂ MIXED PHASES AS NEGATIVE ELECTRODE MATERIAL IN LITHIUM ION BATTERIES*. Marcus FEHSE. Institut Charles Gerhardt, Montpellier

15.30-15.45 h *NEW FAMILIES OF PHOSPHORUS-CONTAINING DENDRIMERS*. Hanna DIB. Centre National de la Recherche Scientifique de Toulouse

15.45-16.00 h *DESIGNING OF CARBON MICROSWIMMERS USING BIPOLAR ELECTROCHEMISTRY AND CONTROLLING THE DIRECTION OF MOTION*. Zahra FATTAH. Université Bordeaux 1

16.00-16.15 h *ORGANIC LAYER IMMOBILIZED ON MICRO-OBJECT BY BIPOLAR ELECTROCHEMISTRY*. Dodzi ZIGAH. Université Bordeaux 1

16.15-16.30 h *DETERMINATION PRECONCENTRATION OF URANYL ION AT LOW CONCENTRATION*. Angelica M. Candela. Universitat Autònoma de Barcelona