

Department: Chemistry

Group name: *Organic Photochemistry.*

Acronym: *GRUFOR*

Group Coordinator: Campos García, Pedro José

ANEP Area(s): Chemistry; Chemical Technology

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Department Report: 31/03/2006

RESEARCH TEAM

Number of researchers: 8

<u>Researcher</u>	<u>Department</u>	<u>Professional category</u>
Campos García, Pedro José	Chemistry	FP
Contreras García, Elena	Chemistry	Predoctoral
Fernández Martínez, Diana	Chemistry	Contracted Project
Losantos Cabello, Raúl	Chemistry	Predoctoral
Martínez Lopez, David	Chemistry	Predoctoral
Rodríguez Barranco, Miguel Ángel	Chemistry	FP
Sampedro Ruiz, Diego	Chemistry	TP
Santamaría Aranda, Eduardo	Chemistry	Predoctoral

COLLABORATORS

Nº of collaborators: 1

<u>Collaborators</u>	<u>Department</u>	<u>Professional category</u>
Martínez Aguirre, Mónica	Chemistry	

Lines of research

Design, synthesis and photochemical characterization of biomimetic motors and molecular switches.
Biological applications of molecular devices.
Photoprotective compounds, design, preparation and applications.
Polymers, photochemistry and the environment.
Computational photochemistry.
Synthetic photochemical methodology. Photolysis of iodine derivatives. Nitrogen systems.
Mechanisms of organic and organometallic reaction by means of theoretical calculations.
Photocatalysis induced by visible light.

Scientific and technological offer

Studies on applied photochemistry: photocuring of resins, photoinitiators, influence of light on food.
Organic synthesis: preparation of compounds of interest in Fine Chemistry, polymers, rubbers, pharmaceuticals, pigments.
Applications of analytical techniques and structural determination: X-ray diffraction, nuclear magnetic resonance, HPLC, mass spectrometry.
Applications of theoretical calculations to design and chemical reactivity.
Advice on the environment, chemical safety, chemical-organic processes, polymers.

National and international relations

University Institute of Organometallic Chemistry "Enrique Moles", University of Oviedo. (Profs. José M. González, Alfredo Ballesteros, Javier Fañanás, among others).
Institute of Chemical Technology, Polytechnic University of Valencia (Profs. Miguel A. Miranda, Consuelo Jiménez, Hermenegildo García).
Prof. Obis Castaño and Dr. Luis M. Frutos, Dept. of Chemistry-Physics, Universidad Alcalá.
Prof. Maximo Olivucci, Dipartimento di Chimica, Università di Siena, Siena (Italy).
Prof. Tito Scaiano, Department of Chemistry, University of Ottawa, Ottawa (Canada).
Prof. G.A. Woolley, Department of Chemistry, University of Toronto, Toronto, Canada.
Prof. Sivappa Rasapalli, Department of Chemistry and Biochemistry, University of Massachusetts Dartmouth, North Dartmouth (USA).
Dr. Sandra Churio, Department of Chemistry, Faculty of Exact and Natural Sciences, National University of Mar del Plata, National Council of Scientific and Technical Research (CONICET), Mar del Plata (Argentina).
Prof. Axel G. Griesbeck: Department für Chemie, Universität zu Köln, Cologne (Germany).
Prof. Axel Jacobi von Wangelin: Institute of Organic Chemistry, University of Regensburg (Germany).
Prof. David Díaz Díaz: Institute of Organic Chemistry, University of Regensburg (Germany).
Dr. Raúl Pérez, IMDEA Energy Institute (Madrid).
Dr. Víctor A. Lórenz-Fonfría (The Membrane Biophysics Group), Institute of Molecular Science - ICMol, University of Valencia - UV.