

Arnaud MARTEL

54 rue Edouard de la Boussinière
72000 Le Mans
France

Age : 28

Cellular phone : (33) 6 10 32 08 26
e-mail : arnaud.martel@wanadoo.fr
e-mail2 : arnaud.martel@univ-orleans.fr
website : <http://perso.wanadoo.fr/arnaud.martel>

Ph D - Fine Chemistry – Organic Chemistry

Skills

Organic synthesis, Diels-Alder, macrolactones, homogeneous catalysis.

Analytical chemistry : Good knowledge of a wide range of techniques (GC, HPLC, GPC, FTIR, NMR, ...)

Computer : familiar with the most common office softwares (Staroffice, Microsoft office) and a wide range of OS (Windows NT, 2000, Linux, MacOS, ...) + softwares dedicated to chemistry : computer chemistry (Chem3D, Spartan, Nemesis, Hyperchem), drawing (Chemdraw, Isidraw), NMR (WinNMR, MestreC, SwanMR), Database searching software (SciFinder Scholar, Beilstein).

Languages : English (proficient), German (basic)

Education

Sep 2001 **PhD in fine chemistry with honours**, Science faculty, Université du Maine, Le Mans.

Title : Stereocontrolled cycloaddition of enol ether deriving from cyclic ketones. - Development of a new strategy for the synthesis macrocyclic lactones.

1997 **D.E.A Chimie Fine : Élaboration de biomolécules et matériaux organiques with honours** (Optional subject : Organic Materials), Université du Maine, Le Mans.

1996 **Maîtrise de Chimie with honours** (Equivalent of a master's degree in chemistry) (Optional subject : polymer's chemistry and physics), Université du Maine, Le Mans.

1994 **D.U.T Chimie** (Equivalent of a bachelor's degree in chemistry), IUT Le Mans.

Work experience

Mars 2002- ICOA, Orleans University, Post-doctoral Researcher.

Research on an industrial funded project with Pr. Guillaumet. Monomer's synthesis. Process optimization.

Oct 1997- Sep 2001 I.U.T Chimie Le Mans, Teacher.

Teaching the practical work in analytical chemistry to the IUT's second year students (3*96h+144h). Training to the modern techniques in analytical chemistry (GPC, HPLC, GC, FTIR, X Fluorescence, Atomic absorption, UV, NMR, ...).

Supervision of a student project on *bringing up to date the web pages of the chemistry department of the IUT du Mans*.

Publications

G. Dujardin, A. Martel, E. Brown, *Tetrahedron Letters* **1998**, 39, 8647-8650.

"Eu(fod)₃ and SnCl₄-catalysed heterocycloadditions of O-silyl enol ethers deriving from cyclic ketones."

A. Martel, S. Leconte, G. Dujardin, E. Brown, *Eur. J. Org. Chem.* **2002**, 3, 514-525.

"Lewis acid catalysed [4+2] heterocycloadditions between ketone enol ethers and β -ethylenic α -oxo esters"

A. Martel, G. Dujardin, E. Brown, *Synthesis* **2003**, Accepted.

"A new route to 9-decanolides"

A. Martel, S. Chewchanwuttiwong, G. Dujardin, E. Brown, *Tetrahedron Letters* **2003**, Accepted.

"Low Temperature Syntheses of Thioketals from Enol Ethers and Carbonyl Compounds"

Scientific Communications

SFC Section locale Basse-Normandie - Sarthe, Juin 1998. Oral communication + Poster.

SFC Palaiseau, Section chimie organique, Septembre 1998. Poster.

RCOM1 Marseille, Catalyse et réactivité, 11-12 May 2000, Oral communication + Poster.

SFC Section locale Basse-Normandie - Sarthe, 20 Jun 2000. Oral communication + Poster.

SFC 2000, 18-22 September 2000, Poster.

Sajec 2001, 16-18 October 2001, Poster.

Referees

PhD director : Pr. Eric Brown *e-mail* : eric.brown@univ-lemans.fr

Laboratoire de synthèse organique – UMR 6011

Faculté des sciences

Avenue Olivier Messiaen – BP 535

72085 Le Mans Cedex 9 - France

Phone : (33) 2 43 83 33 37

PhD co-director : Dr. Gilles Dujardin *e-mail* : gilles.dujardin@univ-lemans.fr

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Faculté des sciences

Avenue Olivier Messiaen – BP 535

72085 Le Mans Cedex 9 - France

Phone : (33) 2 43 83 33 44

Post-doc director : Pr. Gerald Guillaumet *e-mail* : gerald.guillaumet@univ-orleans.fr

ICOA, UMR 6005

UFR SCiences

BP 6759

45067 ORLEANS Cedex 2 - France

Phone : +33 (0)2 38 41 73 54

Fax : +33 (0)2 38 41 72 81