



**DURANDETTI Muriel**  
**Section 14 – Collège A2**

Full professor  
MESOO team



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#### PROFESSIONAL EXPERIENCES

- 2023- Full professor, CARMen Institut, Rouen Normandy University, France.  
2005-2023 Associate professor, COBRA Laboratory, Rouen Normandy University, France.  
1998-2005 Associate professor, LECSO, University of Paris XII (Val de Marne), France.  
1994-1998 Assistant professor, LECSO, Advisor: Prof. Périchon, University of Paris XII (Val de Marne), France.

#### EDUCATION

- 16/06/2005 Habilitation à Diriger des Recherches, University Paris Val de Marne, France  
1991-1994 Ph.D. Chemistry, University Paris VI (Pierre et Marie Curie), France.  
1990-1991 M.S. Analytical Chemistry, University Paris VI (Pierre et Marie Curie), France.

#### ADMINISTRATIVE & INSTITUTIONAL RESPONSIBILITIES

- 2021-2025 Member of the CoNRS, section 12  
2017- Director of the C2iOrgA technical platform.  
2017-2025 Member of the COBRA management team  
2015-2021 Member of the board of the Société Chimique de France, Organic Chemistry Division (SCF-DCO) – Treasurer 2018-2021  
2012- Coordinator of the "Metal mediated Chemistry" axis of the LabEx SynOrg  
2006-2023 Member of the Advisor Commission of faculty specialists (CCSE, section 32) – University of Rouen, France – vice president (2006-2019).

#### RESEARCH INTERESTS

- Topic 1: Electrocatalysed cross-coupling reaction - Mechanistic investigation using electroanalytical process – Transition metal catalysis.  
Topic 2: Synthesis of silylated / germlylated heterocycles (Si-CH<sub>2</sub>-Cl activation, Si-CH<sub>2</sub>-H activation, Si-Si activation, Si-H / Ge-H activation).  
Topic 3: Triple bond activation (carbometallation, heterometallation). Synthesis associated with theoretical study by DFT calculations.

#### SCIENTIFIC ACHIEVEMENTS

- Academic record (h-index: 23)  
62 publications, 2 patents, 3 book chapters, 32 invited lectures (academia & industry)

#### SUPERVISION ACTIVITIES

- 13 PhD students  
9 post-doctoral internships  
3 technicians / engineers  
11 Master 2 students, Ungraduated students

## TEACHING ACTIVITIES

University of Paris XII (Val de Marne)

Organic Chemistry / General Chemistry

IUT department of Chemistry:

General Chemistry / Analytical Chemistry / Electrochemistry / NMR

Master 2:

Electrosynthesis / Molecular electrochemistry applied to mechanisms determination

## MEMBERSHIPS OF SCIENTIFIC SOCIETIES

Member of the Organic Chemistry Division of the Société Chimique de France (SCF-DCO) since 2007

## CONFERENCES

32 invited lectures (academia & industry, 16 international) – 84 oral and poster presentations

## PUBLICATIONS

### Selected Publications

- 1 - "Ni-Catalysed Activation of  $\alpha$ -Chloroesters: A simple Method for the Synthesis of  $\alpha$ -Arylesters and  $\beta$ -Hydroxy-esters". M. Durandetti, C. Gosmini, J. Périchon. *Tetrahedron*, **2007**, 63, 1146-1153
- 2 - "Intramolecular carbolithiation of alkynes: *anti* selectivity". Catherine Fressigné, AL. Girard, M. Durandetti, J. Maddaluno. *Angew. Chem. Int. Ed.*, **2008**, 47, 891-893
- 3 - "Anionic access to silylated and germylated binuclear heterocycles". T. Boddaert, C. François, L. Mistico, O. Querolle, L. Meerpoel, P. Angibaud, M. Durandetti, J. Maddaluno. *Chem. Eur. J.*, **2014**, 20, 10131-10139
- 4 – "Intramolecular Carbolithiation of Heterosubstituted Alkynes: Experimental and Theoretical Study". R. Lhermet, M. Ahmad, C. Hauduc, C. Fressigné, M. Durandetti, J. Maddaluno. *Chem. Eur. J.*, **2015**, 21, 8105-8111. **Hot paper. Inside back Cover picture**
- 5 – **Special Issue: Women in Chemistry** "Direct Carboxylation of Aryl Tosylates by CO<sub>2</sub> Catalyzed by *in situ* Generated Ni(0)". F. Rebih, M. Andreini, A. Moncomble, A. Harrison-Marchand, J. Maddaluno, M. Durandetti. *Chem. Eur. J.*, **2016**, 22, 3758-3763
- 6 – "Access to Silylated Pyrazole Derivatives by Palladium-Catalyzed C-H Activation of a TMS group". L. Mistico, O. Querolle, L. Meerpoel, P. Angibaud, M. Durandetti, J. Maddaluno. *Chem. Eur. J.*, **2016**, 22, 9687-9692
- 7 – "Direct *Syn* Addition of Two Silicon Atoms to a C $\equiv$ C Triple Bond by Si–Si Bond Activation: Access to Reactive Disilylated Olefins" M. Ahmad, A.-C. Gaumont, M. Durandetti, J. Maddaluno. *Angew. Chem. Int. Ed.*, **2017**, 56, 2464-2468
- 8 - "Nickel-Catalyzed Electrochemical Cyclization of Alkynyl Aryl Iodide, and Domino Reaction with Aldehydes". C. Déjardin, A. Renou, J. Maddaluno, M. Durandetti. *J. Org. Chem.*, **2021**, 86, 8882-8890
- 9 – "Synthetic applications of Nickel-Catalyzed cross-coupling and cyclisation reactions" M. Durandetti. *Chem. Rec.*, **2021**, 21, 3746-3757
- 10 – "Modular Access to Substituted Germoles by Intramolecular Germylzincation". S. Kassamba, A. Perez-Luna, F. Ferreira, M. Durandetti. *Chem. Commun.*, **2022**, 58, 3901-3904
- 11 – "Synthesis of 6-membered germacycles by intramolecular germylzincation of alkynes". S. Kassamba, A. Perez-Luna, F. Ferreira, M. Durandetti. *Org. Chem. Front.*, **2023**, 10, 3328-3335
- 12 – "Nickel-Catalyzed Intramolecular Hydrosilylation of Alkynes: Embracing Conventional and Electrochemical Routes". M. Reboli, S. Kassamba, M. Durandetti. *Chem. Eur. J.*, **2024**, 30, e202400440