



Dr Prof Christophe HOARAU



INSA of Rouen

Heterocycles team

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PROFESSIONAL EXPERIENCES

- 2012- Professor at INSA of Rouen - Rouen Normandy University, France.
- 2007 Habilitation to conduct organic chemistry Research (HDR)
- 2002-2012 Assistant Professor and Teacher at IUT of Rouen – Rouen Normandy University; France
- 2007-2009 Postdoctoral Associate; Advisor: Dr Jeremy Robertson, University of Oxford at UK

EDUCATION

- 1997-2000 Ph.D. Organic Chemistry, University of Lille 1, France.
- 1995-1997 M.S. Organic Chemistry, University of Lille 1, France.

ADMINISTRATIVE & INSTITUTIONAL RESPONSIBILITIES

- 2018-2020 Director of 'Fine and Industrial Chemistry' (CFI) department of the Engineering School INSA of Rouen, France
- 2018- Members of the International Scientific Committee of the European Colloquium on Heterocyclic Chemistry (ECHC)
- 2014- Member of the Editorial board of ARKIVOC
- 2014- Member of the Advisor Commission of faculty specialists (CCSE, section 32) – University of Rouen, France

RESEARCH INTERESTS

- Heterocycles chemistry (azoles, pyridine)
- Transition-metal catalysed C-H and C-CO₂H bonds activation
- Catalytic [C-H/C-X], [C-H/C-H], C-H/C-CO₂H], [C-H/N-H]-type cross-couplings using mono-, ccooperative and dual catalysis (Pd, Cu and radicals).
- Selectivity: Csp²-H vs Csp²-H and Csp³-H using various catalytic metalation modes mechanisms and long- distance catalytic metalation
- Mechanism: non-concerted metalation-deprotonation modes (DFT calculations)
- Functional diversity: C-H bonds alkylation, benzylation, heteroalkenylation, allylation
- Construction and functionalization through C-H bonds activation from allenamides, diènes
- Total synthesis (azole natural products, thiopeptides antibiotics)
- Organic materials (DPO, POPOP scintillators, imidazolone-based GFP analogs, palladacycles fluorophores)

SCIENTIFIC ACHIEVEMENTS

Academic record (h-index: 27)

62 publications, 1 book chapters, 2 patents, 6 invited lectures (academia & industry)

Selected prizes and awards (ou Editorial activities)

Since 2004 Member of Advisory board of ARKIVOC

Since 2018 Members of Scientific Committee of European Colloquium of Heterocyclic Chemistry (EHC)

2021 Chairman of EHC XIX (virtual) – 26-29th april

Exemples d'autres rubriques possibles (sans restriction de place)

SUPERVISION ACTIVITIES

GRANTS AND FELLOWSHIPS

TEACHING ACTIVITIES

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

EDITORIAL ACTIVITIES

CONFERENCES

PUBLICATIONS