

Jean-Hugues RENAULT

PROFESSOR OF PHARMACOGNOSY

Director of the Institute of Molecular Chemistry of Reims
UMR CNRS 7312

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Qualifications and diplomas

- 2024** | University Professor of Exceptional Class. 2 (CNU).
- 2018** | University Professor of Exceptional Class. 1 (URCA).
- 2015** | 1st Class University Professor (CNU).
- 2009** | University Professor in Pharmacognosy, UMR 7312, Faculty of Pharmacy, University of Reims Champagne-Ardenne (URCA).
- 2006** | Accreditation to Supervise Research.
- 1997** | Associate Professor in Pharmacognosy, FRE CNRS 2715, URCA.
- 1997** | Ph.D. with a specialization in Pharmacy, option Natural product Chemistry - UFR Pharmacy, URCA. "*Centrifugal Partition Chromatography (CPC): Theoretical Study and Applications to Natural Product Isolation of Natural*". UPRES-A 6013, dir.: Pr. M. Zèches-Hanrot.
- 1996** | ATER, UPRES-A 6013 (dir. G. Massiot), UFR Pharmacy, URCA
- 1992** | DEA in Molecular Chemistry and Physico-Chemistry, University of Nancy I, "Synthesis of enantiomerically pure analogues of myo-inositol from D-mannose", URA CNRS 486, Dir.: Dr. Y. Chapleur.

Main research topics (natural product chemistry)

Chemical Engineering

- Solid-support free liquid-liquid processes (Centrifugal Partition Extraction/Chromatography) – modelling, transfer phenomena, parametric optimization, intensification, scale-up, displacement mode.
- Green Chemistry (biobased chemistry, green solvents, biotransformations, etc.)

Chemical profiling and in silico biological evaluation of natural products

- Development of NMR- and MS- based dereplication tools for complex natural product mixture chemical profiling, open database development.
- Chemoinformatics
- High-throughput inverse docking

Key Responsibilities

Main Scientific Responsibilities and Projects

- 2024-: Co-director of the Research Federation "The One Bioeconomy" (Official creation September 2025)
- 2018-present: **Director of the Institute of Molecular Chemistry of Reims - UMR CNRS 7312** (# 100 members)
- 2012-2016: Project Manager, Head of the "Health" research unit of URCA
- 2018-2021: Member of the board of the SCF Sustainable Chemistry Group
- 2010-2012: Vice-President of the Ingredients & Active Ingredients Commission, Industries and Agro-resources division
- 1997-present: 4 ANR projects, 2 FP7 (IAPP), 1 Horizon Europe (Staff Exchange), 2 INTERREG, CPERs, PEPR, 1 NATO SfP,... (#8,5 M€)
- Supervision: 26 PhD, 12 post-docs
- Industrial collaborations (framework agreements with Pierre Fabre and Givaudan; GSK, Lonza, UCB, Gilson, Rousselet, Cosmo, etc., #2 M€)
- Expert: BpiFrance, CIR, Horizon Europe, ANR, ANRT, etc.
- Scientific output: 143 publications and chapters, 12 patents and software, +50 invited lectures
- International Counter-Current Chromatography Conference Organizing Committee
- University of Athens Recruitment Commission, CYROI International Scientific Committee member, etc.
- Hcéres committees

Key Administrative Responsibilities

- 1997-2015: Head of DESS and Master 2 "Chemistry, Natural Substances and Medicine"
- 2012 - 2016: Elected member of the Research Commission and of the Academic Council (URCA)
- 2021-: Member of the CoNRS (section 16)
- 2024-: Elected member of the Research Commission and of the Academic Council (URCA)
- Miscellaneous: Faculty of Pharmacy Management Board, Selection Committees, President of CNRS Recruitment Jury, elected member of the CFVU, etc.

ADDITIONAL INFORMATION

Born on April 15, 1968, married 1 child.

Holder of PES, then PEDR, then RIPEC3, Knight of the Order of Academic Palms, organization of Contemporary Art exhibitions, amateur photographer (exhibitions), trail running