

Dr. Florent PERRET (10/04/1977)



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EDUCATION

- 2023 HDR in Supramolecular Chemistry from the University of Lyon (France)
- 2002 PhD in Physical Chemistry from the University of Clermont-Ferrand (France)
- 1999 MSc in Biomolecular Chemistry from the University of Montpellier (France)

PROFESSIONAL EXPERIENCE

Research activity:

- Since May 2023 Associate professor at ICBMS/CSAp, Prof J. Leclaire, Université Lyon 1
- 2008-2023 Assistant professor at ICBMS/CSAp, Prof J. Leclaire, Université Lyon 1
"Synthesis and functionalisation of macrocyclic compounds for biological applications (calixarenes and cyclodextrins).»; " Multicomposant Covalent Self-assemblies for the selective recognition of peptides and proteins. (Dynamic Combinatory Chemistry)"
- 2006-2008 Post-Doc position at ICBMS/ LCO2 team, Prof H. Parrot Lopez, Univ.Lyon 1
"Biologically active molecule encapsulation by modified cyclodextrines"
- 2005-2006 Post-Doc position at IBCP, Dr. A.W. Coleman, CNRS-Lyon
"Synthesis and biological studies of anionic calix[n]arènes "
- 2002-2004 Post-Doc position in the team of Pr. S. Matile, University of Geneva, Switzerland
"Artificial ion-channel synthesis" ; "Polyarginine transport across lipidic membranes".
- 1999-2002 PhD thesis in the Laboratoire de Thermodynamique des Solutions et des Polymères, Pr. N. Morel-Desrosiers, Université de Clermont-Ferrand
"Thermodynamical and structural studies of the complexation of amino-acids, peptides and proteins by watersoluble calixarenes".

Teaching activity:

- 2008 – to date Teaching lessons and practical lessons in Organic and biomolecular chemistry for undergraduate students at IUT-Univ. Lyon 1.
- 2014- to date Responsible of internships for two-year university degree in technology IUT-Univ. Lyon 1 (120 students/year)
- 2014 -2019 Co-founder and co-responsible of a Professional BSc in organic chemistry

Administrative responsibilities:

- 2019 – to date Elected member of the National Council of Universities (CNU section 32)
- 2014 - 2021 Elected member of the Laboratory Council (ICBMS)
- 2010-2014 + 2022- to date Nominated member of the Chemistry Department Council (IUT-Lyon1)

OUTPUT AND IMPACT

Publications			Bibliometrics		Oral Communications	
Articles	52	H-index	24	<i>Google Scholar</i>	Plenary and keynotes	3
Patents	1		20	<i>Web of Science</i>	Communications	24
Book Chapters	4				Seminars	9
Reviews	10	Citations	2248	<i>Google Scholar</i>		
			1741	<i>Web of Science</i>		

Publications of the 5 past years:

* indicates corresponding author(s):

1. "Dyn[n]arenes: Versatile Platforms to Study the Interplay between Covalent and Non-covalent Bonds"
L. Vial*, F. Perret*, J. Leclaire*

Eur. J. Org. Chem. **2022**, e202101274 – highlighted as the Front Cover – selected as VIP – open access

2. "Encoding Stereochemical Molecular Information on Cyclophanes using Non-directional Interactions and Achiral Building Blocks"

Y. Zhang, B. Ourri, P.-T. Skowron, E. Jeamet, A. M. Belenguer, N. Vanthuyne, O. Cala, P. K. Mandal, C. Duchamp, E., F. Perret, L. Vial, I. Huc, J. Leclaire*

ChemRxiv **2021**, 10.26434/chemrxiv-2021-p1kvx – open access

3. "Phospholipase D inhibitors screening: probing and evaluation of ancient and novel molecules "

Y. Arhab, K. Bessaa, K., H. Abla, M. Aydin, R. Rahier, A., Comte, L. Brizuela, S. Mebarek, F. Perret, M.C. Cherrier, A. Abousalham, A. Noiriél*

Int. J. Biol. Macromol. **2021**, 166, 1131-1140

4. "The Dark Side of Disulfide-based Combinatorial Chemistry"

M. Dumartin, J. Septavaux, M. Donnier-Maréchal, E. Jeamet, E. Dumont, F. Perret*, L. Vial*, J. Leclaire*

Chem. Sci. **2020**, 11, 8151 – open access

5. "Wetting the Lock and Key Enthalpically Favours Polyelectrolytes Binding"

E. Jeamet, J. Septavaux, A. Héloin, M. Donnier-Maréchal, M. Dumartin, B. Ourri, P. Mandal, I. Huc, E. Bignon, E. Dumont*, C. Morell, J.-P. Francoia, F. Perret, L. Vial*, J. Leclaire*

Chem. Sci. **2019**, 10, 277 – open access

6. "Fused Deposition Modeling 3D Printing: Test Platforms for Evaluating Post-Fabrication Chemical Modifications and In-Vitro Biological Properties."

P. Arany, E. Roka, Z. Ujhelyi, P. Feher, J. Varadi, F. Fenyvesi, M. Vecsernyes, I. Bacsokay, F. Perret, L. Mollet, A.W. Coleman, B. Kim, R. Kovacs, A. Kazsoki, R. Zelko, R. Gesztelyi,*

Pharmaceutics **2019**, 11 (6).

7. "Tuning Solid-State Calix[n]arene Supramolecular Assemblies Using Phenanthroline as the Guest Molecule"

B. Lesniewska, B. AW. Coleman, F. Perret, K. Suwinska*

Cryst. Growth Des. **2019**, 19 (3), 1695-1708.

8. "Direct measurement of the mechanical properties of a chromatin analog and the epigenetic effects of para-sulphonato-calix[4]arene"

Y. Tauran, A. Kumemura, M.C. Tarhan, F. Perret, L. Jalabert, D. Collard, H. Fujita*, A.W. Coleman*

Sci. Rep. **2019**, 9 (1), 1-12

9. "Size and Flexibility Define the Inhibition of the H3N2 Influenza Endonuclease Enzyme by Calix[n]arenes"

Y. Tauran, J. P. Ceron-Carrasco, M. Rhimi, F. Perret, B. Kim, D. Collard, A.W. Coleman, H. Perez-Sanchez*

Antibiotics (Basel) **2019**, 8 (2).

10. "para-Sulphonato-calix[n]arene capped silver nanoparticles challenge the catalytic efficiency and the stability of a novel human gut serine protease inhibitor"
N. Akermi, H. Mkaouar, A. Kriaa, A. Jablaoui, S. Soussou, A. Gargouri, A. W. Coleman, F. Perret, E. Maguin, M. Rhimi*
Chem. Comm. **2019**, 55 (61), 8935-8938
11. "Diastereoselective Synthesis of a Dyn[3]arene with Distinct Binding Behaviors toward Linear Biogenic Polyamines"
M. Donnier-Maréchal, J. Septavaux, E. Jeamet, F. Perret, A. Héloin, E. Dumont, J.-C. Rossi, F. Ziarelli, J. Leclaire*, L. Vial*
Org. Lett. **2018**, 20, 2420
12. "Self-assembled supramolecular nanoparticles improve the cytotoxic efficacy of CK2 inhibitor THN7"
A. Nacereddine, A. Bollacke, E. Róka, C. Marminon, Z. Bouaziz, F. Fenyvesi, I. Bácskay, J. Jose, F. Perret,* and M. Le Borgne*
Pharmaceuticals, **2018**, 11(1) 10
13. "Enhancement of iodinin solubility by encapsulation into cyclodextrin nanoparticles"
Prandina, L. Herfindal, S. Radix, P. Rongved, S.O. Doskeland, M. Le Borgne* and F. Perret*
J. Enz. Inhib. Med. Chem., **2018**, 33(1), 370-375.
14. "Elucidating the mechanism of the considerable mechanical stiffening of DNA induced by the couple Zn²⁺/Calix[4]arene-1,3-O-diphosphorous acid"
Y. Tauran, M.C. Tarhan, L. Mollet, J.B. Gerves, M. Kumemura, L. Jalabert, N. Lafitte, I. Byun, B. Kim, H. Fujita, D. Collard, F. Perret, D. Leonard, M. Desbrosses, C. Goutaudier, A.W. Coleman
Sci. Rep. **2018**, 8(1), 1226.
15. "The Solid-State Structures of Organic Salts Formed by Calix[4]arene Dihydroxyphosphonic Acid with Nucleic Bases Cations: Adeninium, Cytosinium, Guaninium and Uracilium"
Shkurenko, A.N. Lazar, D. Collard, A. Navaza, B. Kim, Y. Tauran, F. Perret , A.W. Coleman *
Supramol. Chem. **2018**, 30 (5-6), 545-559