

# Peptoid

## Peptoid group

Group Leader : [Dr Sophie Faure](https://iccf.uca.fr/annuaire/sophie-roy)(<https://iccf.uca.fr/annuaire/sophie-roy>)

[Research](https://iccf.uca.fr/english-version/research/organic-and-medicinal-chemistry/peptoid/research)(<https://iccf.uca.fr/english-version/research/organic-and-medicinal-chemistry/peptoid/research>)



## Staff

### PERMANENT MEMBERS

[M. Arnaud GAUTIER](https://iccf.uca.fr/annuaire/m-arnaud-gautier)(<https://iccf.uca.fr/annuaire/m-arnaud-gautier>)

[M. Olivier ROY](https://iccf.uca.fr/annuaire/m-olivier-roy-1)(<https://iccf.uca.fr/annuaire/m-olivier-roy-1>)

[Sophie ROY](https://iccf.uca.fr/annuaire/sophie-roy)(<https://iccf.uca.fr/annuaire/sophie-roy>)

[M. Claude TAILLEFUMIER](https://iccf.uca.fr/annuaire/m-claude-taillefumier-1)(<https://iccf.uca.fr/annuaire/m-claude-taillefumier-1>)

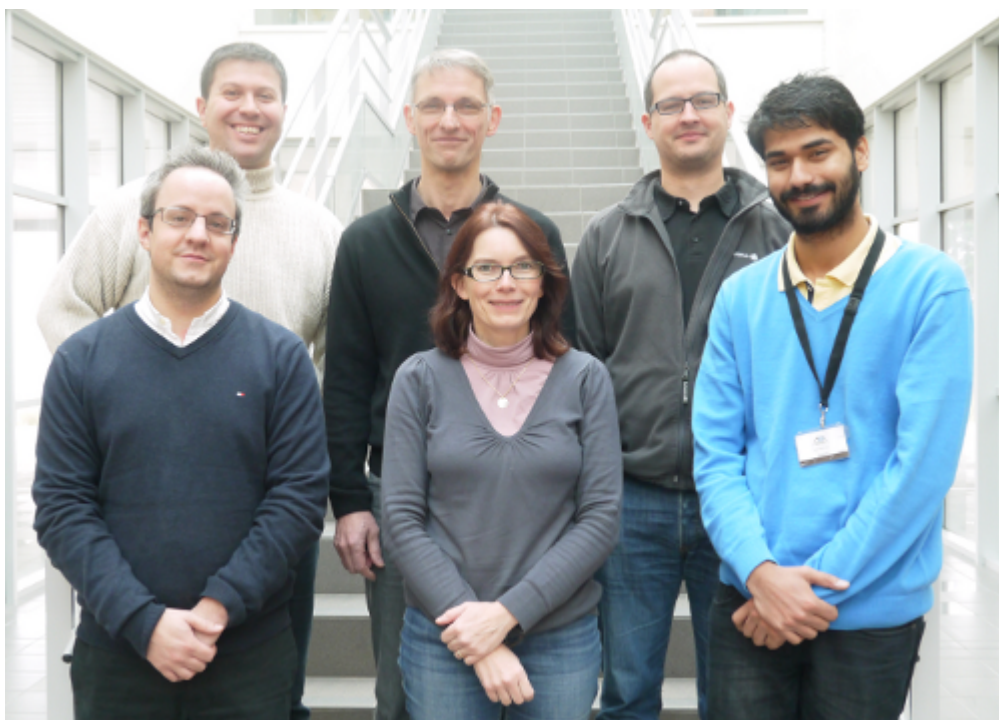
### NON PERMANENT MEMBERS

- Radhe Shyam (PhD)
- Maha Rzeigui (PhD)

## FORMER MEMBERS

- Geoffrey Dumonteil (2016)
- Gaetano Angelici (2016)
- Hafida Aliouat (2016)
- Sarra Zekri (2015) M2
- Valentin Teyssier (2014) M2
- Pierre-Henri Elchinger (2013-2014) Post-doctorant
- Thomas Szekely (2010-2014) Doctorat
- Yannick Esvan (2013) M2
- Carlos Fernandes (2012) Post-doctorant
- Cécile Caumes (2009-2011) Doctorat
- Zaher Abdel Baki (2008) M2
- Thomas Hjelmgaard (2007-2010) Post-Doctorant
- Marielle Barra (2007-2009) Doctorat
- Roland Remuson CR CNRS

Group in 2012



Group in 2008



## Funded projects

[ANR ARCHIPEP](http://www.agence-nationale-recherche.fr/?PROJET=ANR-13-BS07-0008)([HTTP://WWW.AGENCE-NATIONALE-RECHERCHE.FR/?PROJET=ANR-13-BS07-0008](http://www.agence-nationale-recherche.fr/?PROJET=ANR-13-BS07-0008))

**Project coordinator:** Claude Taillefumier

**Novel peptoid architectures:** from structure to biological function

**Partners:** ICCF UMR 6296 Institut de Chimie de Clermont-Ferrand

LPCNO - UMR 5215, IRSAMC Laboratoire de Physique et Chimie des Nano-Objets, INSA TOULOUSE

## COMMUNICATIONS:

Angelici G., Roy O., Faure S., Jolibois F., Perrin L., Poteau R., Taillefumier C., All cis and tBu peptoid foldamers. 9th Peptoid Summit, Berkeley (USA), 67 août 2015.

Roy O., Angelici G., Faure S, Perrin L., Jolibois F., Taillefumier C., Peptoides : Du contrôle de l'isomérisation cis/trans à l'hélice de type PPI, RECOB16, Aussois, 13-17 Mars 2016.

## POSTERS

Angelici G., Roy O., Faure S., Jolibois F., Perrin L., Poteau R., Taillefumier C., All-cis -and -peptoid foldamers, Symposium on foldamers, Bordeaux, 26-28 juin 2015.

[H2020-MSCA-IF-2014 : PRO-MEMBRANE\(HTTP://CORDIS.EUROPA.EU/PROJECT/RCN/195213\\_EN.HTML\)](http://cordis.europa.eu/project/rcn/195213_en.html)

**Fellow:** Gaetano Angelici

**Project coordinator:** Claude Taillefumier


“Pro-Membrane” is an extensive project which has been structured to face multiple tasks of different levels of innovation and risk. In its longest-term and most ambitious goal, Pro-Membrane, aims to face the still not solved challenge of stabilize and crystallize Membrane-Proteins (MPs). This study will use, as innovative tool, well-ordered and disordered functionalizable amphiphilic peptoids for structural determinations. Peptoids could indeed succeed where other classes of molecules previously failed, answering to the pressing need of a new method able to establish the specific interactions to stabilize and crystallize each MP. Their peculiar nature helps them to easily cross the membrane and their modular synthesis give access to an infinite combination of molecules. Despite their interest, a systematic and comparative study of their physical properties and self-assembly capacity was never done before. The multidisciplinary nature of this work, between Organic Chemistry, Biophysics, and Structural Biology will be achieved through a strict collaboration between all the participants.


## Collaborations





[\\_\(http://lpcno.insa-toulouse.fr/spip.php?article76&lang=fr\)](http://lpcno.insa-toulouse.fr/spip.php?article76&lang=fr)

Lionel Perrin, Franck Jolibois et Romuald Poteau  
LPCNO (UMR CNRS 5215) INSA- UPS Toulouse.


  
**Institut Pasteur** [\(https://research.pasteur.fr/fr/team/immune-regulation-and-vaccinology/\)](https://research.pasteur.fr/fr/team/immune-regulation-and-vaccinology/)  
Claude Leclerc et Richard Lo-Man  
INSERM U883 Institut Pasteur, Paris.

  
medway school of pharmacy [\\_\(http://www.msp.ac.uk/about/staff/chemistry/edwards\\_alison.html\)](http://www.msp.ac.uk/about/staff/chemistry/edwards_alison.html)  
Alison E. Edwards The Medway School of Pharmacy, The Universities of Kent and Greenwich at Medway ,  
Kent, UK.

  
**CRM<sup>2</sup>** [\\_\(http://crm2.univ-lorraine.fr/lab/fr/personnel/claude-didierjean/\)](http://crm2.univ-lorraine.fr/lab/fr/personnel/claude-didierjean/)  
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**Cermav** [\\_\(https://www.cermav.cnrs.fr/fr/glycobiologie-moleculaire\)](https://www.cermav.cnrs.fr/fr/glycobiologie-moleculaire)

Anne Imberty  
CERMAV UPR CNRS 5301, Grenoble.

  
UNIVERSITY OF COPENHAGEN [\\_\(http://drug.ku.dk/employees/?pure=en/persons/19008\)](http://drug.ku.dk/employees/?pure=en/persons/19008)  
Thomas Hjelmgaard et John Nielsen  
University of Copenhagen, Danemark.

  
**BioFilm** [\\_\(http://www.biofilmcontrol.com/fr/\)](http://www.biofilmcontrol.com/fr/)

Société Biofilm Control  
Saint-Beauzire, France.

[Publications](https://iccf.uca.fr/recherche/chimie-organique-et-medicinale/peptoid/publications) [\\_\(https://iccf.uca.fr/recherche/chimie-organique-et-medicinale/peptoid/publications\)](https://iccf.uca.fr/recherche/chimie-organique-et-medicinale/peptoid/publications)

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