

Thibault TROADEC

CNRS Researcher

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UBO
Université de Bretagne Occidentale



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RESEARCH

2017- CNRS Researcher

Laboratoire de Chimie et Electrochimie Moléculaire,
Chimie Analytique (CEMCA), Brest. UMR CNRS 6521
COSM Group (Chimie Organique Santé Matériaux)

*Polyazamacrocyclic chelators and main group elements – Organic/inorganic synthesis, coordination chemistry.
Applications to medical imaging, therapy and catalysis*

2016-2017 Post-doc

CEMCA, Brest. UMR CNRS 6521
Pr R. Tripier, Dr V. Patinec – Macrocyclic chemistry

2013-2015 Post-doc

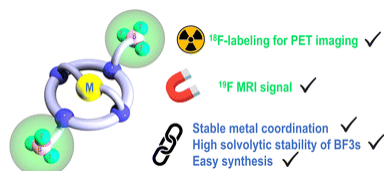
University of Warwick,
Dr A. Chaplin – Organometallics & supramolecular chemistry

2009-2013 PhD thesis

Laboratoire Hétérochimie Fondamentale et Appliquée (LHFA, UMR 5069), Toulouse.
Dr T. Kato and Dr. A. Baceiredo (ECOIH)

Title : « *Silacyclopropylidene : a highly reactive 3-membered cyclic silylene : synthesis, reactivity and coordination chemistry* »

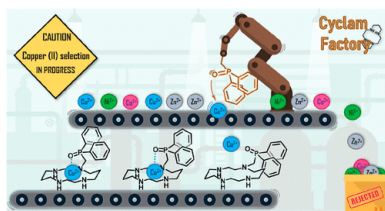
REPRESENTATIVE PUBLICATIONS



“A versatile fluorinated azamacrocyclic chelator enabling ^{18}F PET or ^{19}F MRI : a first step towards new multimodal and smart contrast agents”.

C. Sire, V. Meneyrol, N. Saffon-Merceron, E. Terreno, F. Garello, L. Tei, E. Jestin, R. Tripier and **T. Troadec***

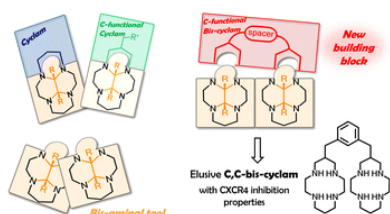
Chem. Sci., **2024**, 2024, 15, 13550. [link](#)



“A Phosphine Oxide-Functionalized Cyclam as a Specific Copper(II) Chelator.”

M. M. Le Roy, S. Héry, N. Saffon-Merceron, C. Platas-Iglesias, **T. Troadec***, R. Tripier.

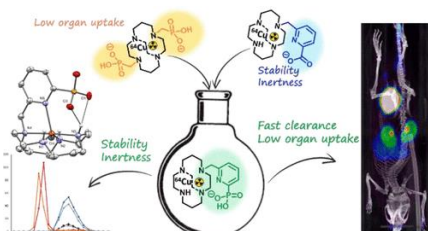
Inorg. Chem., **2023**, 62, 8112-8122. [link](#)



“Selective synthesis of an elusive C-functionalized bis-cyclam and study of its inhibition properties of CXCR4 chemokine receptor”.

M. M. Le Roy, S. Claes, N. Saffon-Merceron, D. Schols, **T. Troadec***, R. Tripier.

Org. Biomol. Chem., **2024**, 22, 3059-3067. [link](#)



“Cyclam-Based Chelators Bearing Phosphonated Pyridine Pendants for ^{64}Cu -PET Imaging: Synthesis, Physicochemical Studies, Radiolabeling, and Bioimaging.”

R. C. Knighton, **T. Troadec***, V. Mazan, P. Le Saëc, S. Marionneau-Lambot, T. Le Bihan, N. Saffon-Merceron, N. Le Bris, M. Chérel, A. Faivre-Chauvet, M. Elhabiri, L. J. Charbonnière, R. Tripier.

Inorg. Chem., **2021**, 60, 4, 2634–2648. [link](#)

MRI : L. Tej, Università del Piemonte Orientale (UPO, Italy)
PET ¹⁸F : E. Jestin, CyROI, La Réunion
PET ⁶⁴Cu/Imaging : A. Faivre-Chauvet & M. Chérel, CRCINA, Nantes
Potentiometry : M. Elhabiri, LIMA, ECPM Strasbourg
Luminescence/Lanthanides : L. Charbonnière, IPHC Strasbourg
Theoretical Chemistry & Coordination : C. Platas-Iglesias, Univ. La Corogne (Spain)
CXCR4 Biology : D. Schols, KU Leuven (Belgium)
Catalysis & supramolecular chemistry : R. Gramage Doria, ISCR Rennes

FUNDING

2021-2020-21 ANR JCJC (SMARTFLUOR), **240k€**
 2020-21 Fondation ARC, **50k€**
 2020 La Ligue contre le Cancer (Grand-Ouest, CSIRGO), **20k€**
 2019-22 Ligue contre le cancer/ARED région Bretagne, **90k€**
 2018-2019 SAD Région Bretagne (17007802), **137k€**



SUPERVISION

PhD Students Tanguy Debaud (UBO/Région Bretagne), 2024-27 (50% with R. Gramage Doria, INSCR Rennes)
 Charline Sire (ANR JCJC SMARTFLUOR), 2021-24 (100%)
 Marie Le Roy (Ligue/ARED Région Bretagne), 2019-22 (50%, with Raphaël Tripiet, UBO)

Post-Doc Dr. Richard Knighton (SAD Région Bretagne), 18 mois, 2018-19 (100%)

Visiting Students Alexandru Dumitrascu (Master, 2021, 4 Months - UPO Italy, ERASMUS+)
 Charlene Harriswangler (PhD student, 2024, 2 Months – Univ. La Corogne)

CONFERENCES (since 2017)

Oral Communications :

- 6th Scientific Days of Molecular Imaging Agents Network (GDR AIM), Lyon, 2024
- Journées de Chimie de Coordination DCC-SCF (JCC), Strasbourg, 2024
- Recherche en Imagerie et Technologies pour la Santé (RITS), 2022
- International conference on P, B and Si chemistry, Rome, Italie, 2019

Posters :

- Workshop réseau VIR Cancéropôle Grand Ouest, 2018, 2019 et 2023
- Studium Multimodal Imaging 2017, Orléans

Organizing Committee :

- Journées Scientifiques SCF-BPL 2024, Brest (**Chair**)
- Workshop réseau VIR Cancéropôle Grand Ouest 2024, Erquy
- FrenchBIC 2023, Brest
- GECOM-CONCOORD 2020, Brest (Webinaire)
- ICCS 2016, Brest

ACADEMIC INVOLVEMENT AND NETWORKS

Societies French Chemical Society (SCF) - Member since 2017 – Elected member of regional board Bretagne Pays de Loire (since 2018)

University Elected member of the Research Academic Council, University of Brest (2021-2024)
 CNRS Jury member (IR 2023)

Networks Cancéropôle Grand Ouest
 GDR AIM (Molecular Imaging Agents) – since 2022
 FrenchBIC (BioInorganicChemistry Network, CNRS) – since 2021

Research Unit UMR 6521 Elected member of the CEMCA UMR 6521 Council (2022-)
 Seminars organizer and chair (2019-)