

CURRICULUM VITAE

Family name, First name: **ORIO, Maylis**

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Date of birth: February the 25th 1981 (Age: 42), Nationality: French

Web site: <http://ism2.univ-amu.fr/fr/annuaire/biosciences/oriomaylis>

• EDUCATION

- 2014 HDR: Accreditation to supervise researchers, University of Lille 1, France
- 2007 PhD in Molecular, Structural and Physical Chemistry, University Grenoble 1, France
Supervisor: J.-M. Mouesca
- 2004 Master in chemistry, University Grenoble 1, France

• CURRENT POSITIONS

- 2014 - today CNRS Researcher, iSm2, Marseille, France

• PREVIOUS POSITIONS

- 2010 - 2014 CNRS Researcher, LASIR, Lille, France
- 2009 - 2010 Postdoctoral position at Department of Molecular Chemistry, Grenoble, France
Supervisor: H. Jamet
- 2007 - 2009 Postdoctoral position at Max-Planck Institute, Mulheim-an-der-Ruhr, Germany
Supervisor: F. Neese

• FELLOSHIPS

- 2013, 2018, 2022 CNRS Excellency award.

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2014 - today 12 PhD students (7 defended), 3 postdoc, 1 research engineer, 1 industrial Master, 3 Master, 8 undergraduate, 5 engineering students
Internships of PhD students (Humboldt-Univ. Berlin, MPI CEC, Crete / PHC, Erasmus)

• TEACHING ACTIVITIES

- 2010 - today As a CNRS researcher I have no teaching duty but I often participate to summer schools as lecturer (EFEPR 2023, ARPE 2008, 2010, 2012, 2014, 2016, 2018, 2021, 2023 / ECOSTBio 2015, 2016 / MRM 2015, 2019 / FrenchBIC 2017, 2019, 2022 / RCFT 2020, 2021, 2022, 2023 / CIVIS, 2021) and I also teach to graduate students about 10h/year for the PhD program of the IM2B institute (2021).

• ORGANISATION OF SCIENTIFIC MEETINGS

- 2023 Co-organizer of Scientific day - South-East pole RFCT, 45 participants, Lyon, France
- 2023 Organizing committee of ARPE summer school, 45 participants, Carry le Rouet, France
- 2023 Co-organizer of Winter School - South-East pole RFCT, 15 participants, Lyon, France
- 2022 Chair and organizer of the Solar Fuel meeting, 80 participants, Fréjus, France
- 2022 Organizing committee of FrenchBIC summer school, 60 participants, Carry le Rouet, France
- 2022 Organizing committee of MRM summer school, 60 participants, Toulouse, France
- 2022 Co-organizer of Winter School - South-East pole RFCT, 15 participants, Lyon, France
- 2021 Organizing committee of ARPE summer school, 60 participants, remote, France
- 2021 Organizing committee of Pepperschool, 45 participants, remote, France
- 2021 Co-organizer of Winter School - South-East pole RFCT, 20 participants, remote, France
- 2020 Chair and organizer of the JCC meeting, 100 participants, Marseille, France
- 2020 Co-organizer of Winter School - South-East pole RFCT, 20 participants, Lyon, France
- 2019 Organizing committee of FrenchBIC summer school, 60 participants, Carry le Rouet, France
- 2019 Chair and organizer of the QBIC-V conference, 80 participants, Marseille, France
- 2018 Organizing committee of the CuBICS conference, 140 participants, Marseille, France
- 2018 Organizing committee of Pepperschool, 45 participants, Carry le Rouet, France
- 2018 Organizing committee of ARPE summer school, 60 participants, Carry le Rouet, France
- 2015 Chair and organizer of the 2nd ECOSTBio meeting, 120 participants, Marseille, France
- 2014 Organizing committee of ARPE summer school, 60 participants, Lille, France

• COMMISSIONS OF TRUST

- 2021 - today Reviewer of an ANR committee (CE29)
- 2022 - today Member of the international advisory board of European Journal of Inorganic Chemistry
- 2021 - today Member of the international advisory board of Inorganics

2020- 2022	Guest editor of the QBIC special issue in Chemistry Europe journals
2016 - today	Reviewer for internal promotions at Aix-Marseille University
2012 - today	Reviewer for ANR, LABEX, CNRS projects
2010 - today	Reviewer for journals in inorganic chemistry, quantum chemistry and magnetic spectroscopy

• MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2023 - today	Board member of the Solar Fuel Network (GDR SFN)
2021 - today	Communication manager of the IM2NP EPR platform of Infranalytics (FR CNRS 2054)
2021 - today	Treasurer of the French EPR society (ARPE) - elected
2020 - today	Co-responsible of South-East pole of French Theoretical Chemistry Network (RFCT)
2019 - today	Secretary of MRM group of Physical Chemistry Division (DCP) - elected.
2018 - today	Founding member of the Quantum BioInorganic Chemistry society (QBIC)
2016 - 2021	Vice-president of the French EPR society (ARPE) - elected.
2014 - 2018	Management committee member of COST Action CM1305 (ECOSTBio)
2012 - 2016	Member of the administration council of the French EPR society (ARPE) – elected.

• MAJOR COLLABORATIONS

Collaboration	Institute	Articles	Country	Topic
C. Duboc	University of Grenoble Alpes	14	France	Metal-thiol compounds
S. Bertaina	Aix-Marseille University	15	France	Organic materials
V. Artero	CEA Grenoble	8	France	Hydrogenase mimics
S. Blanchard	Sorbonne University	7	France	Ligand redox chemistry
S. Torelli	CEA Grenoble	6	France	Nitrous oxide reductase mimics
M. Desage	University of Strasbourg	6	France	Ligand redox chemistry
A. Aukauloo	University of Paris	5	France	Photosystem II mimics
D. Pantazis	Max-Planck Institute	11	Germany	Methodological developments
A. Coutsolelos	University of Crete	5	Greece	Bio-inspired photocatalysis
N. Dalal	Florida State University	4	USA	Metal Organic Frameworks
I. Castillo	UNAM	3	Mexico	Copper monooxygenases

• RESEARCH INTERESTS

I am an expert in quantum chemical tools for the structural and dynamic characterization of molecular compounds related to bioinorganic chemistry. My research activities deal with the experimental and theoretical study of open-shell systems (organic and inorganic compounds) for applications in biology, environment and catalysis. The main goal of my work is to determine the structural and the dynamic features of the entities in order to find out the optimal conditions to set up the best model systems for reactivity and catalysis purposes. Currently I am interested in:

- (1) Synthetic mimics of metalloprotein active sites (hydrogenases, copper and molybdenum enzymes)
- (2) Methodological developments for predicting of spectroscopic parameters in bioinorganic systems
- (3) Metal organic frameworks and molecular magnets.

• CAREER RECORD

116 Scientific publications in high-impact peer reviewed international journals, including: Nature Chemistry (1), Nature Materials (1), J. Am. Chem. Soc. (2), Angewandte. (6), Chem. Commun. (9), ACS Catal. (2), Chemistry (15), 1 book chapter
34 publications as corresponding, citations = 3960, h index = 33, i10 = 71.

• FUNDING: PROJECTS

Project Title	Funding source	Amount	Period	Role of the PI
CompMagnAniso	PHC Pavle Savic	4 k€	2023-2025	PI
CAPH ₂	IEA Grèce	10 k€	2023-2025	PI
CompEPRMoW	PHC Procope Plus	6.5 k€	2023-2025	PI
COSACH	ANR-PRC	2 k€	2023-2026	Participant
BOOM	ANR-JCJC	5 k€	2023-2026	Participant
CAPH ₂	Région EJD	116.3 k€	2022-2025	PI
CAPH ₂	Région Volet Général	29.7 k€	2022-2024	PI
Production bio-inspirée de H ₂	ANRT-CIFRE	148.6 k€	2020-2023	PI

CODEC	ANR-JCJC	206.9 k€	2020-2024	PI
PepMoCO ₂	Cellule énergie	5 k€	2019-2020	Participant
SomeTIME	PICS USA	21 k€	2019-2022	PI
CuBISM	PHC Procope	7.5 k€	2018-2021	PI
CuBISM	ANR-PRCI	153.4 k€	2018-2023	Co-PI
NiFemim	ANR-PRCI	62.1 k€	2016-2021	Corresponding
Molyere	ANR-PRC	18 k€	2016-2021	Participant

• CONTRIBUTION TO CONFERENCES

38 oral contributions - 16 invited talks and 12 invited seminars - 27 poster communications

2023 EFEPR, Genève, Suisse.

2023 6th QBIC meeting, Varsaw, Poland.

2022 French-German UniSysCat symposium, Berlin, Allemagne.

2022 17^{ièmes} Rencontre des Chimistes Théoriciens Francophones, Bordeaux, France.

2022 Journées de Chimie de Coordination 2022, Lille, France

2021 Colloque Novachim, Marseille, France

2021 Réunion de l'Association française de Magnétisme Moléculaire, Dourdan, France

2020 Lorentz Workshop on BioInorganic Chemistry, Leiden, Pays-Bas.

2019 International Conference of Computational Methods in Science and Engineering, Rhodes, Greece.

2018 International Conference in Coordination Chemistry, Sendai, Japan.

2017 6th Chinese-French Workshop in Theoretical Chemistry, Xiamen, Chine.

2016 2nd BOOK-D Meeting, Bordeaux, France.

2015 2nd Unicat Meeting, Berlin, Allemagne.

2014 Réunion de l'Association française de Résonance Paramagnétique Electronique, Paris, France.

2013 96th Canadian Chemistry Conference, Quebec, Canada

2013 Japan-France Bilateral Symposium on Photoresponsive Materials 2013, Kanagawa, Japon.