



French German cooperation: ANR-DFG funding



Thierry NADALIG
(Maître de Conférences)
(GMGM, UMR 7156 CNRS-Université de Strasbourg)

JOURNEE D'INFORMATION

Le Rhin supérieur, territoire scientifique :

opportunités et financement pour la coopération bi- et trinationale

Strasbourg, 05.05.2022

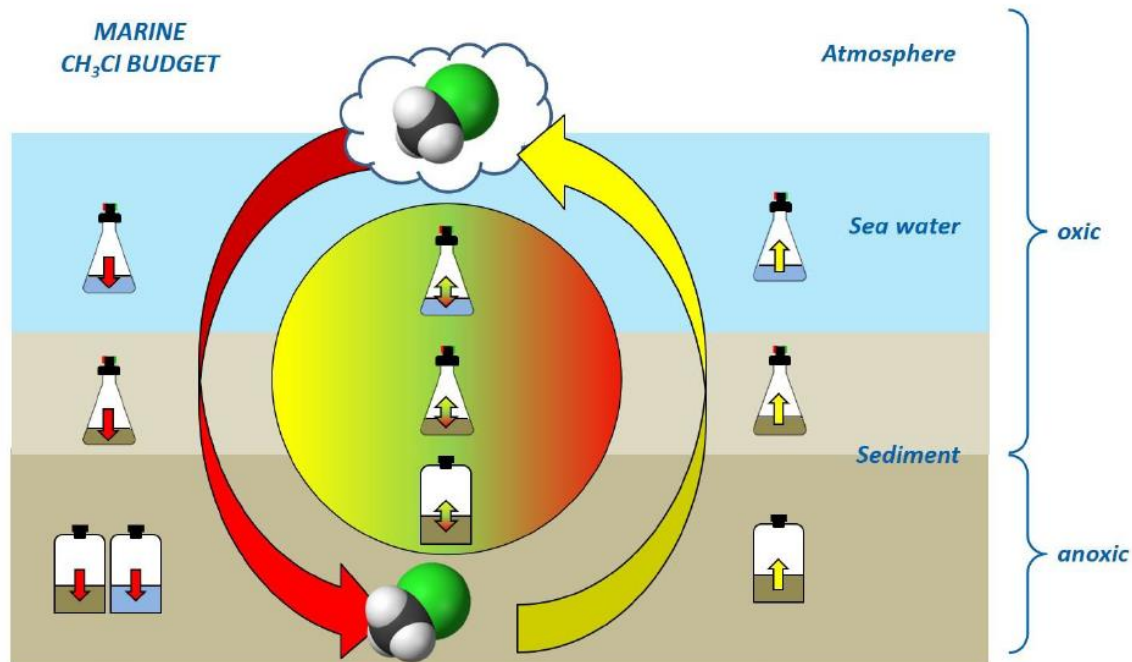
MAHABIO

MARine HALomethane BIOgeochemistry

Marine cycle of chloromethane (CH_3Cl) a gas involved in ozone depletion

- bacterial production and consumption
- sediment and sea-water
- oxic and anoxic conditions

MAHABIO is an interdisciplinary project (microbiology, biochemistry and geochemistry)



EXPECTED IMPACTS

Characterisation of new microbial actors and biomarker genes of halomethane production and consumption processes

- Isolating new marine bacterial players in the degradation of CH_3Cl
- Distinguish between the microbial processes of production and consumption of CH_3Cl
- Characterise the interactions between producers and consumers of CH_3Cl

Discovery and characterisation of new enzymes for industrial applications

Meetings with the public on climate issues biogeochemical cycle of a greenhouse gas and ozone depleter

GENESIS OF THE PROJECT

Team « **Adaptations and Interactions of Micro-organisms in the Environment** » (S. Vuilleumier)

- expertise in bacterial dehalogenative metabolism (**CH₃Cl**)
- functioning of dehalogenating strains and of microbial communities in the environment
- several ANRs, including a Franco-German one (Chlorofilter, 2015-2017, F. Bringel)

Thesis “New degradation pathway of **CH₃Cl** by marine bacteria” Jing Luo (2017-2021)

- collaboration with Frank Keppler (Univ. Heidelberg)

First discussions (Team, F. Keppler)

Search for complementary partners in France and Germany

Drafting of the project

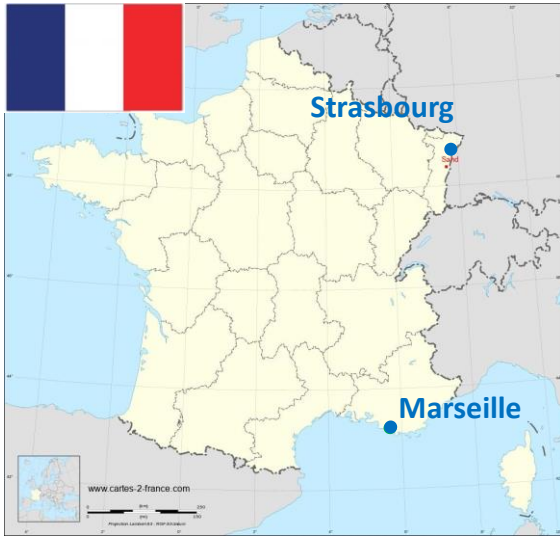
- first draft
- exchanges with the partners

AAPG : PRCI « **Projet de Recherche Collaborative - International** »

Scientific Evaluation Committee: CE02 – Terre Vivante

Scientific coordinator : **T. Nadalig**

THE PARTNERS



Génétique Moléculaire, Génomique, Microbiologie (UMR7156, Univ. de Strasbourg-CNRS)

PI Thierry Nadalig (MCF)

CH₃Cl bacterial metabolism
Genomics, diversity

Institut Méditerranéen d'Océanologie (UM110, Univ. Aix-Marseille-CNRS-IRD)

PI Agnès Hirschler-Réa (MCF)

Anaerobic metabolism
Marine bacterial isolation



Institute of Earth Sciences (Heidelberg University)

PI Frank Keppler (Professor)

Volatile organic compounds
Stable isotope analysis

Institute of Biology II - Microbiology (Albert-Ludwigs-Universität Freiburg)

PI Matthias Boll (Professor)

Pollutant degradation
Microbial biochemistry, enzymes

ANR DFG Chlorofilter




ADDED VALUE TO THE FRENCH-GERMAN COOPERATION

- Scientific cooperation: complementary expertise of partners in several disciplines
 - Microbiology
 - Biochemistry
 - Isotopic analysis

- EUCOR (European Campus): Universities of Strasbourg and Freiburg
 - Geographical proximity
 - Strengthen research cooperation
 - Provide access to specialized skills
 - Develop common research infrastructures



FINANCIAL REQUESTS

		GMGM	AMU-MIO	GEOW	ALUF
Staff expenses			Postdoc, PhD and master students		
Instruments and material costs (including scientific consumables)					
Building and ground costs					
Outsourcing / subcontracting			Publication costs, sequencing ...		
General and administrative costs & other operating expenses	Travel costs				
	Administrative management & structure costs ¹		Overhead 12%		
Sub-total					
Requested funding (before overheads)					

Help with the financial set-up of the project: Pôle Unique d'Ingénierie (PUI)

SEVERAL SUBMISSIONS

First submission ANR-DFG in 2019: no funding obtained



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" ... very good project that would enlarge the current understanding of marine biogeochemical cycling of halogenated volatile organic compounds, and therefore would be very welcome in the field. "

" The international consortium is well balanced and has the potential to successfully address this interesting scientific objective, with a high added value for the French German cooperation. "

" The scientific objectives are well defined and clearly presented ... "

" The panel, however, was concerned on the feasibility of such ambitious project for a time period of only three years ... "

" Some concerns were also raised about the limited experience of the PI with project coordination "

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EC2CO (ECosphere COntinentale et CÔtière, CNRS) in 2020 : funding obtained

- Project scientific coordinator: T. Nadalig

- Duration: 2 years



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Second submission ANR-DFG in 2021 :



More preliminary results: PhD Thesis Jing LUO, publication (Keppler et al. 2020)

Experience as scientific coordinator (EC2CO)

Redesign of the project taking into account the previous criticisms

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- Project scientific coordinator: T. Nadalig

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Second submission ANR-DFG in 2021 : funding obtained



- Project scientific coordinator: T. Nadalig

- German country referent: F. Keppler

- Duration: 3 years

“ The MAHABIO project is ambitious and well organized, and the involved research groups complement each other well. The research field is environmentally important and the results may hence be interesting also outside of the academic world. ”

SUBMISSION STEPS

AAPG 2021 : instrument PRCI « Projet de Recherche Collaborative - International »
(Collaborative Research Projects – International)

Early registration of proposals on the ANR website only: **1st December 2020**

- *Project identity*
- *Partners identification*
- *Administrative information for each partner*
- *Financial request for ANR and DFG*

SUBMISSION STEPS

AAPG 2021 : instrument PRCI « Projet de Recherche Collaborative - International »
(Collaborative Research Projects – International)

Early registration of proposals on the ANR website only: **1st December 2020**

Submission of detailed proposals on the ANR website: **14th April 2021**

- *Complete detailed proposal (30 pages)*
- *A copy is provided to the DFG*
- *ANR and DFG check the eligibility of the project*
- *Projects are evaluated solely by the ANR (Lead Agency)*

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Evaluation by the experts and right of reply: **June 2021**

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Evaluation by the experts and right of reply: **June 2021**

Joint decision and publication of results: **October 2021**

SUBMISSION STEPS

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Submission of detailed proposals on the ANR website: **14th April 2021**

Evaluation by the experts and right of reply: **June 2021**

Joint decision and publication of results: **October 2021**

Possible start of the projects: **last quarter of 2021 - January 2022**
to be adapted according to the constraints of the foreign partners.

MAHABIO: June 2022

ADMINISTRATIVE AND FINANCIAL MONITORING OF THE PROJECT

SITE DE SUIVI DU PROJET (ANR)

https://aap.agencerecherche.fr/suivibilan/2021. Rechercher

Fil info ANR Proj ANR : Soumissi... Ernest - Accueil - Ernest Ocean Gene Atlas - Q... SIGAP https://ecandidat-gest... Études en France O.S.C.A.R Règlement financier | ...

anr®

Thierry M nedelig@ Coordinateur

Projet : MAHABIO

Revenir à la liste

Suivi scientifique

Suivi administratif et financier

Suivi des versements

Résumés

Partenariats et dates

Annexe financière

Actes attributifs

Document scientifique

Demandes de modification

Présentation du projet

Instrument de financement : PRCI - Projets de recherche collaborative - International

Catégorie R&D : Recherche fondamentale

Liste des agences de financement

Nom de l'agence	Associée au projet	Associée au(x) partenaire(s)
ANR	<input type="checkbox"/>	GMGM MIO
DFG	<input checked="" type="checkbox"/>	GEOW Universität Freiburg / Arbeitsgruppe Boll, Institut für Biologie II

Liste des cofinanceurs :

Aucun cofinancier ajouté au projet.

ADMINISTRATIVE AND FINANCIAL MONITORING OF THE PROJECT

UNIVERSITY OF STRASBOURG

beta

O.S.C.A.R



O.S.C.A.R

Organisation et Suivi des Contrats et des Activités de Recherche

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ADMINISTRATIVE AND FINANCIAL MONITORING OF THE PROJECT

Fichier de programmation budgétaire à destination des unités de recherche



Date du jour : 26/04/2022

Contrat de recherche									
Programmation budgétaire pluriannuelle									CTRL cohérence
	Catégories	Budget	2021	2022	2023	2024	2025	2026	
Coûts directs	Investissement								OK
	Fonctionnement								OK
	Missions								OK
	Salaires contractuels								OK
Coûts indirects	Overheads								
	Frais administratifs								OK
	CFG								OK
	Total							0.00 €	

Signature du responsable scientifique

Signature du Directeur d'unité

Help with the financial distribution of the project:

- Pôle Unique d'Ingénierie (PUI)
- Our administrative manager

ADMINISTRATIVE AND FINANCIAL MONITORING OF THE PROJECT

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CTRL
cohérence

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		Missions								
		Salaires contractuels								
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Coûts indirects		Frais administratifs								
		CFG								
		Total								

Staff expenses	
Instruments and material costs (including scientific consumables)	
Building and ground costs	
Outsourcing / subcontracting	
General and administrative costs & other operating expenses	Travel costs
	Administrative management & structure costs ¹

Signature du responsable scientifique

ACKNOWLEDGEMENTS

« AIME » Team Members

Stéphane Vuilleumier (Pr, Unistra)

Françoise Bringel (DR, CNRS)

Emilie Muller (CR, CNRS)

Eugénie Grigorian (ATER)

Domitille Jarrige (Post-doc)

Louis-François Mey (PhD student)

Carmen Lazaro (PhD student)

Maria Ossipenko (PhD student)

Adrien Borreca (PhD student)

Lucile Meyer (Master student)

MAHABIO Partners

Frank Keppler (Heidelberg)

Markus Greule (Heidelberg)

Agnès Hirschler (Marseille)

Nathalie Pradel (Marseille)

Matthias Boll (Freiburg)

