

EXPRESSION OF INTEREST FOR A HORIZON 2020 PROJECT

Title of the targeted call for proposals and Topic of interest:

Horizon 2020 Green Deal Call
Topic: LC-GD-2-1-2020

Contact details

Country	FRANCE
Name of the organisation	Aix-Marseille University (AMU)
Laboratory	Institut de Chimie Radicalaire
Name of the contact	MARQUE Sylvain
Phone	+33 (0)4 13 94 57 70
Email address	sylvain.marque@univ-amu.fr nicolas.gochgarian@univ-amu.fr naoufal.aouane@univ-amu.fr

Short description of AMU:

Aix-Marseille University (AMU) was created in 2012, resulting from the merger of the University of Provence, the University of the Mediterranean and Paul Cézanne University. It has more than 78,000 students including 10,000 international students, 7,680 faculty and staff members, 12 doctoral schools and nearly 3,300 PhD students. AMU is the coordinator of the Erasmus + European University Alliance "CIVIS". AMU has been involved in more than 100 FP7 projects and until now 102 H2020 projects.

AMU Laboratory involved:

Institut Chimie Radicalaire: ICR gathers 8 teams and one analytical service with 4 Electron Paramagnetic Resonance machines used for the detection of radical species. CRAB team is specialized in the preparation of radical precursors, nitroxides, and radical probes as well as their detection by EPR. CRAB has its own equipments: glassware for organic synthesis, automatic flash chromatography machines, IR and UV devices, Gas Chromatography with sampler, Mass spectrometry machine, X-band EPR machine, and 60 MHz NMR machine.

Areas of potential contribution:

Expertise are in organic synthesis and physical chemistry of radical species. EPR, NMR and kinetics of radical species. Development of new radicals species and precursors for applications in Nitroxide Mediated Polymerization, Radical Polymerization, smart materials, probes for investigation in biology and Materials sciences, development of new drugs.

Involved persons:

Prof. Sylvain Marque: Professor at Aix-Marseille University (180 articles, h = 32, 3000 citations). Between 2015 and 2018, he held a position of Professor at NIOCh (Novosibirsk, Russia,). In 2018, he was awarded the title of Doctor Honoris Causa from NIOCh (SB RAS). His field of interest is the Physical-Organic Chemistry of radical species.