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**Partner search**

**Date (09-08-20)**

* **(\*) Indicate numbers of relevant topics for Green Deal call:**

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| **LC-GD-6-1-2020 : Testing and demonstrating systemic innovations for sustainable food from farm to fork** |

* **Quick description of the project**

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| **(describe the objectives, activities, partners requested and their skills)** |

* **(\*) Do you intend to apply as ? :**

**Coordinator: ~~Yes~~/No**

**Participant: Yes/~~No~~**

**(\*) Either Description of the expertise requested (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting***

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| **Xxxxxxxxx****+ key words :**  |

**Or Description of the expertise proposed (up to 1000 characters) - *specify which points of the "expected impact" of the call you are targeting***

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| To reduce losses and wastes in the food industry, the packaging plays a key role. ICGM intends to propose its expertise in the development of more sustainable packaging for the food industry. In particular, our group has developed a platform of biosourced monomers, from biomass building blocks, to produce biobased polymers. In addition, some of these monomers or polymers, such as those based on eugenol, possibly possess some antibacterials properties. Thus, these biobased monomers and polymers could be suitable to produce innovative biobased packaging. The polymer chemistry at ICGM is developed in solution, in bulk, but also by environmentally-friendly photopolymerization and aqueous emulsion polymerization which are well adapted techniques for coatings. **+key words : biosourced polymers, antibacterial, photopolymerization, emulsion polymerization, coatings.** |

**Organisation information**

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| **Organisation and country:****Charles Gerhard Institute Montpellier, ICGM, UMR 5253, FRANCE**ICGM-IAMEcole Nationale Supérieure de Chimie de Montpellier240 avenue du Professeur Emile JEANBRAUCS 6029734296 MONTPELLIER CEDEX 05FRANCE |
| **Type of organisation:****□ Enterprise □ SME □ Academic ⌧ Research institute □ Public Body □ Other: Association** |
| **Former participation in FP European projects?****⌧ Yes □ No** |
| **Web address:**[**https://www.icgm.fr/**](https://www.icgm.fr/)[**https://www.icgm.fr/iam**](https://www.icgm.fr/iam) |
| **Description of the organisation:**ICGM is a Joint Research Unit between University of Montpellier, CNRS, and School of Chemistry of Montpellier (ENSCM), focusing on research in material chemistry. IAM team (and the new coming department of Chemistry and MacroMolecular Materials, C3M, starting on January 1st 2021) is focusing on low environmental impact polymers, and polymers for life sciences. The members of the C3M department are polymer chemists, biologists, pharmacists: they study chemistry, physical-chemistry, and processing of polymers. Their field of expertise starts from the organic synthesis of building blocks (initiators, monomers, transfer agents) and extends up to the development of polymer and composite materials. It includes the study of polymerization mechanisms and kinetics, the development of clean processes of polymerization, the polymer characterization and the study of polymers self-assembly. The targeted applications are mainly related to energy, environment, sustainable development and health. Biosourced polymers, biofunctional polymers, organocatalysis, emulsion polymerization, photopolymerization, fluorinated polymers, phosphorylated polymers, clean solvents (water, supercritical carbon dioxide), substitution of hazardous molecules, treatment of effluents, self-healing materials, degradable polymers, recyclability of polymers, additive manufacturing, stereolithography 3D printing, polymeric vectors for therapy and diagnostics, and tissue engineering are our fields of interest. |

**(\*) Contact details**

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**(\*) –Mandatory**