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**Partner search**

**Date (05-08-20)**

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

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| **LC-GD-8.1-2020** |

* **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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| Our toxicology group can provide expertise in **biomonitoring** for the **better understanding of the relevance of pollution** to human health, the improvement of **risk assessment** and for the evaluation of the **efficiency of depollution solutions**.  The team studies for many years the **toxicity of chemical and physical agents**. It has a strong expertise in the effects of organic pollutants, nanoparticles, UV and ionizing radiations, metals and oxidative stress. In the recent years, our research has become increasingly interested in the study of **mixture effects** and their impact on risk assessment.  Emphasis has long been placed in our team on the **formation and** **repair of DNA damage**. In this field, our techniques include detection of **DNA adducts** (HPLC-mass spectrometry), **DNA strand breaks** (Comet assay) and imaging-based **high throughput approaches**. We also study various **cellular response** such as apoptosis, metabolism (PCR and western blot) and production of ROS. Our state-of-the-art HPLC-MS tools are also now used for the quantification of **biomarkers in biological fluids**. In our studies, we use human **in vitro models** (2D cultures, co-cultures, and organoids). We also work on **in vivo** samples in collaborative projects.  **+key words : biomonitoring, genotoxicity, DNA damage and repair, mixture effects, organic pollutant, nanoparticles** |

**Organisation information**

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| **Organisation and country:**  **The French Alternative Energies and Atomic Energy Commission (CEA), France** |
| **Type of organisation:**  **□ Enterprise □ SME ⌧ Academic ⌧ Research institute ⌧ Public Body □ Other: Association** |
| **Former participation in FP European projects?**  **⌧ Yes □ No** |
| **Web address:**  <http://www.symmes.fr/en/Pages/CIBEST/Presentation.aspx> |
| **Description of the organisation:**  The French Alternative Energies and Atomic Energy Commission (CEA) is a key player in research, development and innovation in four main areas: defense and security, low carbon energies (nuclear and renewable energies), technological research for industry, fundamental research in the physical sciences and life sciences. |

**(\*) Contact details**

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**(\*) –Mandatory**