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Horizon2020@recherche.gouv.fr

**Partner search**

**Date (DD-MM-YY)**

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

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| **LC-GD-8-2-2020-Fostering regulatory science to address combined exposures to industrial chemicals and pharmaceuticals: from science to evidence-based policies** |

* **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: No**

**Participant: Yes**

**(\*) 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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| * At [DRF/IBFJ/IRCM/SDRR/LDG](http://jacob.cea.fr/drf/ifrancoisjacob/english/Pages/Departments/IRCM.aspx):   The **reproductive function has proven highly sensitive to numerous pollutants** and is thus a sentinel function. Assessing the reprotoxicity of chemicals can be done experimentally in rodents despite species-specific response being reported or through time-consuming epidemiological studies in Human. The LDG is setting up **models (culture and xenograft) to investigate experimentally the toxicity of pollutants** in the human developing gonads, **fulfilling the gap between rodents and epidemiological studies**, to provide an **improved risk assessment**.  Expected impact🡪 Scientific evidence to enable mitigation of pharmaceutical and other chemicals (mixtures) in the environment  *Main contact person:**Pr Gabriel LIVERA*[**gabriel.livera@cea.fr**](mailto:gabriel.livera@cea.fr)   * At [DRF/JOLIOT/SHFJ/TIRO-MATOs](http://joliot.cea.fr/drf/joliot/en/Pages/research_entities/SHFJ.aspx):   Elaboration of **regulatory tests for the detection of thyroid disruptor effects**. Our team combines several skills and tools for sensitive and robust detection of such effects induced by any compound or chemical cocktail. We have indeed developed specific dedicated techniques : **iodide uptake assays in appropriate cellular models and living rodents** (using our SPECT camera), p**roteomic studies for assessment of untargeted and targeted effects** (through the detection of thyroglobulin iodination) and **metabolomic studies for the identification of molecular signatures** of exposed cells or organisms.  *Main contact person: Thierry POURCHER*[**thierry.POURCHER@unice.fr**](mailto:thierry.POURCHER@unice.fr)   * At DRT/Leti/DTBS :   -“**To detect/monitor pollutants in the environment**”: expertise on detection/monitoring devices and more precisely on sample collection/preparation/pre-concentration and microfluidic integration for miniaturized and autonomous devices.  - “**To develop innovative bio-remediation technologies**”, microalgae can be used to study the impact of pollution on the environment and/or naturally detoxify the environment: we have expertise in imaging technologies (Lens Free for instance) that can be used for real-time monitoring of algae growth and metabolism, and providing miniaturized devices for measurements on the field.  **-“To better understand the impact on health of pollutants (and pharmaceuticals)”,** organ-on-chip (OoC) can mimic the body response to such exposures (low doses, mixtures, etc..). We have a strong expertise in microfluidics and sensor integration for OoC or other 3D in-vitro models.  *Main contact person: Caroline Desvergne*[**caroline.desvergne@cea.fr**](mailto:caroline.desvergne@cea.fr)  **+key words :** |

**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.cea.fr/english**](http://www.cea.fr/english) |
| **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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| --- | --- |
| **Contact person name** |  |
| **Telephone** |  |
| **E-mail** |  |
| **Country** |  |

**(\*) –Mandatory**