

**Partner Search Form**  
**Horizon 2020**  
**Health, demographic change and wellbeing**



Date 18 12 2019

Deadline ... ..

**CONTACT**

<b>Organisation</b>	UCBL / HCL	<b>Department</b>	EMET
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<b>City</b>	LYON	<b>Website</b>	<a href="https://lbbe.univ-lyon1.fr/">https://lbbe.univ-lyon1.fr/</a>
<b>Country</b>	FRANCE		

**Organisation type**

<b>Research organisation type</b>	<input type="checkbox"/> Research Organisation	<b>Is your company a Small and Medium Sized Enterprise (SME*)?</b>	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	<input checked="" type="checkbox"/> University			
	<input type="checkbox"/> Company			
	<input type="checkbox"/> Other			
		<b>Number of employees:</b>		

Your enterprise is an SME if:  
- it is engaged in **economic activity**  
- it has **less than 250 employees**  
- it has either an **annual turnover not exceeding €50M, or an balance sheet total not exceeding €43M**  
- it is **autonomous**

For the definition of SMEs, look at: [http://ec.europa.eu/growth/smes/business-friendly-environment/sme-definition\\_en](http://ec.europa.eu/growth/smes/business-friendly-environment/sme-definition_en)

**Short introduction of key areas of institute’s research:**  
Two research units of the Claude Bernard University - Lyon 1 (UCBL) are working closely together: i) UMR 5558, Laboratoire de Biométrie et Biologie Evolutive – LBBE (Evaluation and modelling of drug effects) and ii) Institut Camille Jordan – ICJ (mathematical modeling)

**The Biometry and Evolutionary Biology laboratory (LBBE)** is part of CNRS (Unit 5558) and University of Lyon (UCBL). Research topics encompass various aspects of Biometry (or Biostatistics) and Evolutionary Biology. Research themes in the lab are clustered around a methodology (emphasizing the importance of modeling and informatics in life and medical sciences), and an evolutionary perspective, regardless of the investigation level (from molecules to communities).

**The Camille Jordan Institute (ICJ)** is a CNRS/UCBL laboratory (UMR 5208, Lyon, France) which includes staff from UCBL, University Jean Monnet Saint-Étienne (UJM), École Centrale de Lyon (ECL), and Institut national des sciences appliquées de Lyon (INSA). The research themes of the Camille Jordan Institute cover a very broad range of the mathematical sciences. Members of the institute belong to the following teams: Algebra, Geometry, Logic; Combinatorics, Number Theory; Analysis, Partial Differential Equations; History of Mathematics; Mathematical Modelling and Scientific Computing; Probability, Statistics, Mathematical Physics. Moreover, computing resources and activities of ICJ have been gathered in a team called “Calcul”, which acts at a national level.

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<b>Former participation in an FP European project?</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<b>Project title / Acronym:</b>	<b><i>The 'European Child-Rare-Euro-Simulation' project (CRESim project no. 40-41800-98-008)</i></b> was funded in 2011 by the European Union's ERA-Net PrioMedChild (Priority Medicines for Children).
<b>Activities performed:</b>	The main objective was to investigate and compare RCT designs for drug evaluation in children with rare diseases using in silico experiments (i.e. RCTs modelling and simulation). Eleven scientific articles referenced in PubMed showed the feasibility and the interest of such an approach.

**Expertise / Commitment offered**

<b>Description of your expertise:</b>	Clinical trial methodology, Clinical trial simulation, Construction of realistic virtual populations, Population PK-PD / experimental designs / drug compliance modeling, Rare diseases, Orphan drugs.
<b>Keywords specifying your expertise:</b>	Non-linear mixed effects models, Sampling techniques, ODE, PDE solving, Bayesian networks, Meta-analysis

<b>Commitment offered:</b>	<input checked="" type="checkbox"/> Research <input type="checkbox"/> Demonstration <input type="checkbox"/> Training <input type="checkbox"/> Technology <input type="checkbox"/> Dissemination <input type="checkbox"/> Other:
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<b>Interested in participation in project types:</b>	<input checked="" type="checkbox"/> Research & Innovation Action <input type="checkbox"/> Innovation Action <input type="checkbox"/> SME Instrument
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**Work Programme research areas: indicate your interest**

ERNs : 1.1 Personalized medicine and 1.4 Innovative health and care systems – integration of care
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<b>Call topic(s):</b> SC1-BHC-37-2020: Towards the new generation of clinical trials – trials methodology research (Pg 95)
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<b>Do you have other partners for this topic (which partners/country)?</b>	Large transnational and international partnership available, e.g. ECRIN and BioSyL (Systems Biology at University of Lyon) networks
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**Profile of partner sought**

**Role**

<input checked="" type="checkbox"/> technology development	<input checked="" type="checkbox"/> research	<input type="checkbox"/> training
<input checked="" type="checkbox"/> dissemination	<input checked="" type="checkbox"/> demonstration	<input type="checkbox"/> other _____

**Country /region**

**Expertise required**

We are looking to join a consortium of the Working programme which can complete our expertise and set-up a complex project for a H2020 call in the field of Public Health, drug /medical device evaluation and clinical trial simulation.

**I agree with the publication of this document and my contact data:**  YES  NO