Partner Search Form
Horizon Europe
Health

Date | | Deadline | … … |

CONTACT

Organisation	National Research Council Canada (NRC)	**Department**	Human Health Therapeutics
Contact person	Kasandra Belanger	**Email**	Kasandra.belanger@nrc-cnrc.gc.ca
City	Ottawa	**Website**	Home - National Research Council Canada
Country	Canada		

Organisation type

Research organisation type	X Research Organisation ☐ University ☐ Company ☐ Other	**Is your company a Small and Medium Sized Enterprise (SME*)?** **Number of employees:**	☐ YES X NO ~4.5K

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

Short introduction of key areas of institute's research: The NRC is Canada's largest federal research and development organization, bringing together multidisciplinary expertise to address scientific, technological, and industrial challenges. Through its research centres and collaborative programs, the NRC conducts leading-edge research in areas including health and life sciences, biotechnology, advanced materials, digital technologies, artificial intelligence, aerospace, clean energy, climate resilience, and advanced manufacturing.

Former participation in an FP European project?	☐ YES X NO
Project title / Acronym:	
Activities performed:	

Expertise / Commitment offered

Description of your expertise:	I am a Research Officer in the Human Health Therapeutics Research Centre at the National Research Council of Canada NRC in Ottawa. My research focuses on the discovery and engineering of single-domain antibodies (sdAbs) from immune and synthetic libraries using phage display technologies. I have extensive experience developing selection

	strategies to isolate high-affinity sdAbs against a wide range of targets, including challenging proteins and pathogen-derived antigens, and characterizing candidates based on their biophysical and functional properties. My work includes the development of innovative antibody discovery platforms and the generation of sdAbs for diagnostic, therapeutic, and research applications. Through this expertise, I can contribute antibody discovery, engineering, optimization, and characterization capabilities to collaborative research projects.
Keywords specifying your expertise:	Single-domain antibodies (sdAbs) • Phage display • Therapeutics • Diagnostics • Infectious diseases • Biodefence
Commitment offered:	X Research ☐ Demonstration ☐ Training ☐ Technology ☐ Dissemination ☐ Other:

Interested in participation in project types:	X Research & Innovation Action	☐ Innovation Action	☐ EIC Pathfinder

Work Programme research areas: indicate your interest

Single-domain antibody (sdAb) discovery and engineering; antibody-based therapeutics and diagnostics; infectious diseases and pandemic preparedness; development of medical countermeasures against emerging and re-emerging pathogens; point-of-care and portable diagnostics; pathogen detection and surveillance; biologics development; biodefence applications.

Call topic(s): HORIZON-HLTH-2027-02-IND-02-two-stage: Portable and versatile Point-of-care diagnostics HORIZON-HLTH-2027-01-DISEASE-06: Development of monoclonal antibodies to prevent and treat infections from Flaviviruses
HORIZON-HLTH-2027-01-DISEASE-07: Development of monoclonal antibodies to prevent and treat infections from Filo-, Nairo-, Phenui-, Picorna- and Toga viruses
HORIZON-HLTH-2026-01-DISEASE-04: Development of novel vaccines for viral pathogens with epidemic potential
HORIZON-HLTH-2026-03-DISEASE-13: European Partnership for Pandemic Preparedness

Do you have other partners for this topic (which partners/country)?	No

Profile of partner sought

Role	X technology development	X research	☐ training

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	☐ dissemination	☐ demonstration	☐ other _____
Country /region	☐		
Expertise required	Seeking collaborators with expertise in infectious disease research, diagnostic and/or therapeutic development, assay development and validation, and translational research. Areas of interest include the integration of NRC-generated sdAbs into diagnostic platforms such as lateral flow assays (LFAs), biosensors, and point-of-care technologies, as well as the evaluation and advancement of sdAbs for therapeutic applications. Access to relevant pathogen samples, clinical specimens, animal models, or regulatory and commercialisation expertise would be valuable.		

I agree with the publication of my contact data: X YES ☐ NO