

CaixaResearch Consolidate *Call*

2021



Letter of *Intent*

*This form is only for informational purposes.
Applications will be submitted using the application
form on the programme's website (<https://grants.lacaixafoundation.org/>).
Applications delivered by paper or any other means will not be accepted.*

General Data and Proposal Information

Application Details

Call Name text, pre-filled in with the name of the call.

Application number application number assigned by the system.

Proposal Title textbox, 150 characters.

Proposal Description textbox, 200 characters.

Proposal Acronym textbox, 20 characters.

Project Leader text, pre-filled in with the name and surnames of the user submitting the form.

Host Organization text, pre-filled in with the name of the PL's Host Organization.

Faculty or Research Center (if applicable) textbox, 100 characters, optional.

Classification of the Application

Select the business area

- » Therapeutic
- » Medical Devices
- » Diagnostics
- » Digital Health

Select the scientific area

- » Molecular and Structural Biology and Biochemistry
- » Genetics, Genomics, Bioinformatics and Systems Biology
- » Cellular and Developmental Biology
- » Physiology, Pathophysiology and Endocrinology
- » Neurosciences and Neural Disorders
- » Immunity and Infection
- » Diagnostic Tools, Therapies and Public Health
- » Applied life Sciences and Non-Medical Biotechnology

Select the relevant subareas of your project Options available depending on the selection on the previous question:

1	Molecular and Structural Biology and Biochemistry
1_1	Molecular interactions
1_2	General biochemistry and metabolism
1_3	DNA synthesis, modification, repair, recombination and degradation
1_4	RNA synthesis, processing, modification and degradation
1_5	Protein synthesis, modification and turnover
1_6	Lipid synthesis, modification and turnover
1_7	Carbohydrate synthesis, modification and turnover
1_8	Biophysics (e.g. transport mechanisms, bioenergetics, fluorescence)
1_9	Structural biology (crystallography and EM)
1_10	Structural biology (NMR)
1_11	Biochemistry and molecular mechanisms of signal transduction
2	Genetics, Genomics, Bioinformatics and Systems Biology
2_1	Genomics, comparative genomics, functional genomics
2_2	Transcriptomics
2_3	Proteomics
2_4	Metabolomics
2_5	Glycomics
2_6	Molecular genetics, reverse genetics and RNAi
2_7	Quantitative genetics
2_8	Epigenetics and gene regulation
2_9	Genetic epidemiology
2_10	Bioinformatics
2_11	Computational biology
2_12	Biostatistics
2_13	Systems biology
2_14	Biological systems analysis, modelling and simulation
3	Cellular and Developmental Biology
3_1	Morphology and functional imaging of cells
3_2	Cell biology and molecular transport mechanisms
3_3	Cell cycle and division
3_4	Apoptosis
3_5	Cell differentiation, physiology and dynamics
3_6	Organelle biology
3_7	Cell signalling and cellular interactions
3_8	Signal transduction
3_9	Development, developmental genetics, pattern formation and embryology
3_10	Cell genetics
3_11	Stem cell biology
3_12	Morphology and functional imaging of cells
4	Physiology, Pathophysiology and Endocrinology
4_1	Organ physiology and pathophysiology
4_3	Endocrinology
4_4	Ageing
4_5	Metabolism, biological basis of metabolism related disorders
4_6	Cancer and its biological basis

4_7	Cardiovascular diseases
4_8	Non-communicable diseases (except for neural/psychiatric, immunity-related, metabolism-related disorders, cancer and cardiovascular diseases)
5	Neurosciences and Neural Disorders
5_1	Neuroanatomy and neurophysiology
5_2	Molecular and cellular neuroscience
5_3	Neurochemistry and neuropharmacology
5_4	Sensory systems (e.g. visual system, auditory system)
5_5	Mechanisms of pain
5_6	Developmental neurobiology
5_7	Cognition (e.g. learning, memory, emotions, speech)
5_8	Behavioural neuroscience (e.g. sleep, consciousness, handedness)
5_9	Systems neuroscience
5_10	Neuroimaging and computational neuroscience
5_11	Neurological disorders (e.g. Alzheimer's disease, Huntington's disease, Parkinson's disease)
5_12	Psychiatric disorders (e.g. schizophrenia, autism, Tourette's syndrome, obsessive compulsive disorder, depression, bipolar disorder, attention deficit hyperactivity disorder)
6	Immunity and Infection
6_1	Innate immunity and inflammation
6_2	Adaptive immunity
6_3	Phagocytosis and cellular immunity
6_4	Immunosignalling
6_5	Immunological memory and tolerance
6_6	Immunogenetics
6_7	Microbiology
6_8	Virology
6_9	Bacteriology
6_10	Parasitology
6_11	Prevention and treatment of infection by pathogens (e.g. vaccination, antibiotics, fungicide)
6_12	Biological basis of immunity related disorders (e.g. autoimmunity)
7	Diagnostic Tools, Therapies and Public Health
7_1	Medical engineering and technology
7_2	Diagnostic tools (e.g. genetic, imaging)
7_3	Pharmacology, pharmacogenomics, drug discovery and design, drug therapy
7_4	Analgesia and Surgery
7_5	Toxicology
7_6	Gene therapy, cell therapy, regenerative medicine
7_7	Radiation therapy
7_8	Health services, health care research
7_9	Public health and epidemiology
7_10	Environment and health risks, occupational medicine
7_11	Medical ethics
8	Applied life Sciences and Non-Medical Biotechnology
8_1	Applied genetic engineering, transgenic organisms, recombinant proteins, biosensors
8_2	Synthetic biology, chemical biology and new bio-engineering concepts
8_3	Food sciences

Information for "la Caixa" Foundation

This information will only be used for monitoring/statistical purposes

Are you or any member of your group applying to any other "la Caixa" Foundation call (research, innovation projects and fellowships)?

- » Yes
- » No

Please indicate the application code (such as HR20-00001, CI18-00001...) for each of the proposals where you or a member of your group apply

Application code

Do you or any member of your group have an ongoing project with "la Caixa" (research, innovation projects and fellowships)?

- » Yes
- » No

Please indicate the application code (such as LCF/PR/HR17/52150017) for each of the proposals where you or a member of your group apply

Application code

Have you submitted a previous application to CaixaImpulse/CaixaResearch Consolidate call?

- » Yes
- » No

Which of the two stages of selection did the proposal achieve?

- » Letter of Intent (1st stage)
- » Full Proposal (2nd stage)

Provide the CaixaImpulse codes that were assigned to your proposal in previous attempts (e.g. CL91-XXX or CF91-XXX)

Application code

Select the option that best suits your proposal

- » Cardiovascular
- » Experimental and mathematical sciences
- » Infectious diseases
- » Medical sciences
- » Neurosciences
- » Oncology

» Other health sciences

General information about the project

Does the project have an Intellectual Property Protection Strategy?

» Yes

» No

Describe the current IP strategy to protect your Asset(s). Include patent codes if available. Textbox.

Time to market

» Over 6 years

» Between 4 and 6 years

» Between 2 and 4 years

» Less than 2 years

Technology Readiness Level

Please indicate the Technology Readiness level (reference).

1

2

3

4

5

6

7

8

9

Has the Asset(s) been transferred to a Spin-off company?

» Yes

» No

Information about the Spin-off (name, website, etc). Textbox, 150 characters.

Has your Asset(s) been under evaluation by other funding programmes prior to this call (an object of research grants or other innovation or acceleration programmes)?

Please detail the most relevant ones

Textbox, 500 characters, optional.

Amount requested from the "la Caixa" Foundation

Total amount foreseen in the development plan of your project

Describe the core idea of your application in one sentence Textbox, 150 characters.

Abstract (proposal summary) Textbox, 1500 characters.

Letter of Intent

Aim and potential impact

Aim of the project

What is the unmet need you aim to address and why is it timely and relevant? What potential impact will your solution have in terms of affordability, scalability and sustainability? Who will be the main beneficiaries of your solution?

Textbox, 1500 characters.

Scientific rationale and implementation

What are the scientific fundamentals underlying your idea?

Have you performed a proof of concept validation?

Textbox, 1500 characters.

Describe how the Project's Leader knowledge and experience in field of the Asset(s) would contribute to the success of the Project.

Discuss it in the context of the composition and the relevancy of the rest of the team members. Textbox, 1000 characters.

Development roadmap and market potential

Innovation Transfer milestones

*Describe the specific innovation **transfer milestones** you wish to achieve by participating in this Call in terms of time-to-market.*

Textbox, 1500 characters.

Commercialisation

*According to the stage of development of the Asset(s), **what are the identified determinants that currently condition its successful progression** to the commercialisation phases?* 1000 characters.

Market and market access

Market size and segment; buyers, end-users and relevant stakeholders.

Textbox, 1500 characters.

Competitor solutions

What are the competitor solutions that currently address the specific problem you aim to solve? What is the innovation of your solution compared to those other approaches?

Textbox, 1500 characters.