ITALIAN CYSTIC FIBROSIS RESEARCH FOUNDATION (FFC Ricerca)
“GIANNI MASTELLA” CALL FOR APPLICATIONS
“GIANNI MASTELLA STARTING GRANT”
AND
“GIANNI MASTELLA RESEARCH FELLOWSHIP”

The Italian Cystic Fibrosis Research Foundation (FFC Ricerca) funds research projects that have the ultimate aim to improve the health status of persons with cystic fibrosis (CF) and to providing a breakthrough in understanding of the molecular basis of the disease.

This call is in the memory of prof. Gianni Mastella, pediatrician and key scientist in CF research and co-founder of FFC Ricerca. Two funding options are available:

- the “Gianni Mastella Starting Grant - GMSG” is addressed at investigators operating in the field of CF to continue their scientific career in the study of the basic defect of the disease or in the development of therapeutic approaches to improve the life of people with CF.
- the “Gianni Mastella Research Fellowship - GMRF” is addressed at young researchers who want to start their career in CF research in a laboratory already active in the field.

FFC Ricerca anticipates to finance 1 GMSG and 1 GMRF, depending on the type and quality of the applications and the availability of funds.

What are the relevant features of this call?

- features of the Gianni Mastella Starting Grant – GMSG:
  - the maximum budget allowed is **180,000 euros for the entire project**;
  - the budget will cover:
    - the cost of the PI’s salary, set at **31,000 euros** maximum per year for a total of **93,000 euros** for the entire period,
    - the cost to conduct the research activity set at a maximum of **87,000 euros** for the entire period.
  - the candidate must be **40 years old or younger** (see Eligibility criteria below);
  - the PhD or MD degree is mandatory;
  - the candidate must have **at least 3 publications** as first/last/corresponding author in original papers published in international peer-reviewed journals;
o the applicant must provide a recommendation letter by the chief of the lab in which his/her mentorship to the applicant is assured;
• features of the Gianni Mastella Research Fellowship – GMRF:
  o the candidate must be 33 years old or younger (see Eligibility criteria below);
  o the maximum budget allowed is 100,000 euros for the entire project;
  o the budget will cover:
    ▪ the cost of the research fellowship, set at 25,000 euros per year for a total of 75,000 euros for the entire period,
    ▪ the cost to conduct the research activity set at 25,000 euros for the entire period.
  o the PhD or MD degree is NOT mandatory;
  o the candidate must have at least 1 publication in the field of cystic fibrosis,
  o the applicant must provide a recommendation letter by the chief of the lab in which his/her tutorship to the applicant is assured;
• Common features:
  o deadline for submitting applications: 15 February 2023;
  o only monocentric projects are allowed;
  o the duration of the projects is set at 36 months;
  o a training period in an External Research Institution (ERI) is encouraged (see Project duration and training period below);
  o the candidate must produce a document certifying the willingness of the host institution and, if applicable, of the external research center to conduct the research;
  o the funding grant starts on 1 September 2023.

1. Priority areas

The GMSG and GMRF aim to fund projects focused on the following 5 priority areas in CF research:

1.1. Understanding and treating CFTR basic defects: designing of new approaches to correct defective CFTR or to compensate for its deficient function with the following particular indications:
• Better understanding of CF pathophysiology;
• novel mutation-specific therapies;
• ancillary supports to modulator therapy;
• targeting alternative chloride channels;
• development of therapies based on gene or RNA editing.
1.2. Personalized therapies: identification and validation of new and appropriate in vivo and ex vivo models and assays, such as theratyping, to predict and monitor the potential efficacy of new therapies aimed to correct the CFTR defect.
1.3. Airway infection in CF: development of innovative diagnostic and antimicrobial strategies with special indication for the rapid and accurate diagnosis of infections and the treatment of difficult-to-treat microorganisms.
1.4. Inflammation in CF: innovative strategies of containing the inflammation pathology.
1.5. Clinical applications and epidemiological studies: clinical trials, with special regard to phase IV clinical studies (post-marketing studies in the real life) and those to improve the outcomes of lung transplantation in CF; review and update of traditional therapies that involve a heavy burden on sick people; innovative diagnostic approaches to predict and monitor the evolution of the disease also in the context of new therapies; epidemiological studies and systematic reviews with reference also to the database of the Italian CF Registry; studies on the correlation between climate changes, environment and the health of persons with CF.

General notes and recommendations

- Applicants can submit only one project for this call.
- Priority will be given to research proposals where translational objectives are clearly evident.
- Accordingly, research projects involving clinical studies or pre-clinical studies exploiting animal models of CF are encouraged.
- Projects involving international collaborators are encouraged. Collaborators can ask budget to cover their costs. Please see Eligibility criteria and Budget session below.
- FFC Ricerca also encourages projects focused on studies on therapeutic perspectives on rare mutations and/or mutations not susceptible to currently available modulators.
- In vitro studies dealing with non-CF cell lines are strongly discouraged, unless required for preliminary experiments or used to reinforce data obtained with primary cells.
- Researchers should consider the facilities offered by FFC Ricerca in the design of the projects presented (see also Appendix 1):
  - Servizio Colture Primarie (SCP) which collects primary cell cultures obtained from bronchial epithelium of CF and non-CF patients. For further details please visit the dedicated webpage and contact the service coordinator. At this link is available the SCP ppt slides showed during the 2022 webinar.
  - Cystic Fibrosis animal Core Facility (CFaCore) which develop and provides mouse models for research applications in CF field. For further details please visit the dedicated webpage and contact the service coordinator.
  - Cystic Fibrosis Data Base (CFDB), the data base of clinical interventions in CF: http://www.cfdb.eu. For further details please visit the dedicated webpage and write at info@cfdb.eu. At this link is available the CFDB ppt slides showed during the 2022 webinar.

- FFC Ricerca facilities (SCP, CFaCore, CFDB) must be considered as a service, therefore the coordinator of the facility must not be indicated as a collaborator. Please see guidelines at Outside Collaborations/Services section to fill in Form 9.
- Studies aimed at identifying new therapeutic compounds will also be considered, provided they suggest new strategies for influencing the mutated CFTR function and/or CFTR-dependent mechanisms of cellular pathology, including modification of DNA and RNA.
- FFC Ricerca will not fund formal preclinical studies, except those that address the effects of the drug/compound on animal models of CF disease, when existing and available, and only provide proof of concept that they work in the animal models without toxic effects. Lack of toxicity should also be documented in projects included in other priority areas.
• Studies to identify **novel antimicrobial strategies** will only be considered if original strategies are proposed, along with sufficient preliminary data, to support a potential advantage over conventional treatment protocols. FFC Ricerca will not consider studies aimed at the identification or preliminary characterization of active hit compounds against multidrug-resistant pathogens unless a clear advantage is expected over current agents (including the pre-clinical stage) for treating CF infections.

• Collaboration and the transfer of knowledge and expertise from basic to clinical research is particularly recommended. To this end, the advice of a clinical consultant for basic research projects is conceivable and her/his role must be clearly highlighted in the application cover letter.

• By "translational research" this call does not only mean "bench-to-bedside" studies. Research projects considering translating clinical study results into daily clinical practice and healthcare decision-making are also welcome. Topics to be considered include clinical epidemiology, communication, behavioral sciences, organizational theory, quality monitoring and quality improvement research.

2. **Eligibility criteria**

• **Applicant**
  - **Gianni Mastella Starting Grant - GMSG**
    - Must not be more than **40 years old** (born within 31 December 1982);
    - **not having a permanent position** in the host institution (see Budget for details);
    - the **PhD or MD degree** is mandatory
    - the candidate must have **at least 3 publications** as first/last/corresponding author in original papers published in international peer-reviewed journals;
    - a recommendation letter by his/her mentor is mandatory.
  - **Gianni Mastella Research Fellowship - GMRF**
    - Must not be more than **33 years old** (born within 31 December 1989);
    - **not having a permanent position** in the host institution (see Budget for details);
    - the **PhD or MD degree** is NOT mandatory
    - the candidate must have **at least 1 publication** in the field of cystic fibrosis,
    - a recommendation letter by his/her tutor is mandatory.

• **Host Institution (HI) and External Research Institution (ERI)**
  - The **Host Institution** is the research center where the applicant carries out the research activity described in the application.
    - It must be an **Italian research institute**;
    - it can be **profit or no-profit, private or public**. Pharmaceutical and biotech companies are not eligible.
    - a declaration, undersigned by the HI head/responsible, must be provided by the applicant (see **Additional documents**).
  - The **External Research Institution (ERI)** is the center where the applicant carries out his/her training period.
- It can be an **Italian or an international** research center;
- it can be **profit or no-profit, private or public**. Pharmaceutical and biotech companies are not eligible.
- it must provide the spaces and equipment necessary to carry out the training period;
- if applicable, the applicant can provide a **letter of intent** of the head/responsible of the ERI where the training period will be carried out;
- a **declaration**, undersigned by the ERI head/responsible, must be provided by the applicant by the beginning of the project (see *Additional documents*).

3. **Research team**

- Only monocentric projects are admitted; no partners are admitted for this call.
- If required, only **collaborators are admitted**;
- Collaborators are researchers with limited roles and functions in the project, they can be internal or external:
  - **internal collaborators** are part of the PI’s research group belonging to his/her research institute;
  - **external collaborators** are researchers of external research institutions (Italian or foreign).
- External collaborators can request a cost recovery for a specific task (technical service, research or clinical consultancy – see Budget section).

4. **Project duration and training period**

- Only projects lasting **36 months** are admitted for this call;
- a **training period** is encouraged at an ERI (Italian or foreign), and the related costs are allowed (see *Budget* section);
- the maximum duration of the training period is **6 months**;
- the applicant must provide a declaration from the host institution where the research project will be conducted (see “**Acceptance of the HI**” in *Additional documents – Upload area* (Form 13));
- if already available, the applicant can provide a **letter of intent** in which the head/responsible of the ERI certifies his/her willingness to host the applicant for his/her training period. Please upload this document in “**Additional documents – Upload area** (Form 13);
- the “**Acceptance of the ERI**” is the agreement with the external research center. This document must be signed by the head/responsible of the ERI and must be provided by the start of the project. The head/responsible of the institute must report his/her willingness to host the applicant for his/her training period and must provide him/her with the necessary spaces and equipment to conduct the training period.

5. **Budget**

The budget description (**Form 10**) must be accurate and each item must be motivated and detailed per each research unit and per each year of the funding period. **An inadequate**
Budget description will lead to the exclusion of the project. As a general rule, the maximum budget request for the GMSG cannot exceed 60,000 euros per year for a total of 180,000 euros for the whole project. The part of the budget dedicated to the salary can reach up to 31,000 euros. For the GMRF, the part of the budget dedicated to the research activity is 25,000 euros for three years, while the amount of the research fellowship can reach up to 25,000 euros per year, for a total of 75,000 euros for three years. If the researcher has a permanent position from his/her host institution during the starting grant or the research fellowship, the contribution of the FFC Ricerca will no longer cover the costs of the salary. In this case, the researcher is requested to contact FFC Ricerca’s administration. Any exceptions can be discussed on a case-by-case basis.

5.1. Eligible costs (all must be clearly related to the project):

- Salary for the PI. FFC Ricerca will cover the cost of the research contract of the PI for the duration of the project. In case the applicant already has a contract with his/her host institution, FFC Ricerca can integrate it up to a maximum of 31,000 euros per year for the duration of the project for the GMSG, or to a maximum of 25,000 euros per year for the GMRF. If needed, please use the box in the Additional notes section (Form 12) to describe contract details.
- Small research equipment or accessories and software (justified and related to the current project).
- Consumables and animals.
- Participation in trip and scientific meeting (international conferences on CF).
- Costs to cover the training period (travel, accommodation, health/travel insurance).
- Publication costs, with clear reference to the project funded by this call.
- Costs for patients participating in clinical trials such as insurance coverage and travel costs.
- Overheads (general expenses not foreseen in the previous items, but in any case compatible with the admitted expenses): they cannot exceed 5% of the total budget.
- Collaborators cost recovery, such as external and occasional professional or technical services, costs for clinical consultancy or patentability analysis. The applicant can ask to use part of the budget to finance research activities carried out by one or more collaborators;

5.2. Ineligible costs:

- Salary for internal or external collaborators.
- Furniture and stationery.
- Software not specifically related to the project.
- Basic laboratory or clinical equipment.
- Equipment repair or technical assistance costs.
- Office materials.
- Laboratory or clinical equipment for the ERI in which the researcher intends to carry out her/his training period.

6. Guidelines to fill in the forms
The research project must contain all the following information, which must be followed very carefully.

**General note for filling in the forms:** please avoid past/copy of formatted text (such those from PDF files) which could create technical problems in downloading the final PDF of the application. We suggest you copy the text in a .txt file and, then, copy it in the application forms.

- **Form 1 - General information.**
  - Application details:
    - Project title;
    - Application: Type of Applicant, Type of Application and Type of call (GMSG or GMRF);
    - Number of researchers involved (including internal and external collaborators). For each collaborator, please provide a brief biosketch;
    - Research area;
    - Animals or human subjects involved in the project.
  - Applicant information and contract details; internal and external collaborators possibly involved in the project, the details of their host institution and their specific roles in the project. The acceptance of collaboration must be corroborated by personal declaration (see also point 7, Additional documents).
  - Enter here whether the training period is foreseen. If already available, the letter of intent can be uploaded in form 13 - Administrative documentation - Upload Area.

- **Form 2 - Project overview.** It must include: background/rationale, hypothesis and objectives, preliminary results relevant to the project, experimental plan and methods description, timing, anticipated output, relevance for FFC Ricerca mission.

- **Form 3 - Research Plan: Background, Specific Aims & Rationale.** The originality of the project must be clear from these items. The bibliography cited must be reported in this section.

- **Form 4 - Preliminary Results.** They must be proved and convincing and refer to the results obtained by the applicant in preliminary investigations that bring the motivation and the justification of the proposal. The preliminary results will serve to demonstrate that the candidate has the capacity to carry out the proposed project. This part will be considered as absolutely necessary and decisive for the evaluation of the project. Images and graphs relating to preliminary results must be uploaded in this section as a single PDF document (max 25 Mb).

- **Form 5 - Experimental Plan and Methods.** In this part the following must be specified in detail: the experimental plan or clinical protocol, the methodology and materials intended to use, the justified number of the samples (whether patients or animals) to be examined and the statistical methods that will be required for the evaluation of the results. A description of the development phases of the project is also requested, including temporal ones (also with a Gantt chart), quality controls, and all pertinent references. In addition, the organization and management must be described to ensure the quality and feasibility of the project. It would be interesting if the critical points of the experimental plan and any "B plans" indicated in case of problems are detailed. If applicable, please describe in this section a realistic way to valorize the project results in terms of translational research. The Gantt chart and, if available, other images
must be uploaded here as part of a single PDF document (max 25 Mb). Indicate in this form if it is a clinical project/trial.

- **Form 6 - Curriculum vitae.** Education and training, previous job and research experiences, significant publications in last 5 years (only in peer-reviewed journals only). For the GMSG, please report in this section at least 3 publications as first/last/corresponding author in original papers published in international peer-reviewed journals. For the GMRF, please report in this section at least 1 publication in the field of cystic fibrosis in original papers published in international peer-reviewed journals.

- **Form 7 - Role and Contribution of the Applicant in the project.** Please describe the applicant’s contribution to the project and how to coordinate the activities of the collaborators.

- **Form 8 - Features and facilities.** Applicant position title (if applicable); Main research fields; name of laboratory or clinical department and his/her responsible/central and number of staff members; description of facilities (spaces, clinical resources, IT equipment, major equipment, facilities and services available). The technologies and services available for the implementation of the project must be detailed, indicating their specific relevance to each phase of the experimental plan.

- **Form 9 - Outside Collaborations/Services.** Describe the collaborators contribution to the project. External technical services or consultancy / professional services are to be considered. External collaborators must be supported by specific letters (Letter of commitment) to be uploaded in the form 13 - Administrative documentation – Upload Area. If required, facilities of FFC Ricerca must be reported in this section.

- **Form 10 - Budget.** Specify overall expenses and for each year (see Budget section). Any other financial supports must be indicated in this section, reporting the related details (description, amount, project title, granting agency). Note that the choice made in session “General Information/Type of call” corresponds to a specific budget table.

- **Form 11 - Lay Summary.** This must be written both in English and Italian (including Italian title), in a popular and well understood style. This summary is meant to serve as a succinct and accurate description of the proposed work; if the application is funded, this summary will be published in the “Notiziario FFC Ricerca” and in other media. The summary must state clearly the relevance of the proposed study to the FFC Ricerca mission (to promote innovative treatment and care for CF). In the Appendix 2 you can find some tips to help you write the lay summary.

- **Form 12 - Cover and Tutor/Mentor letters and additional notes.** Upload in this section the Cover letter and the tutorship or mentorship letters. Tutorship and mentorship letter must be written on the institute headed paper. If needed, use the “Additional notes” box to report any contract details.

- **Form 13 - Additional documentation – Upload area.** Documents to be uploaded: Acceptance of Host Institution, Acceptance of collaboration/Consent to Personal Data Processing, Acceptance of External Research Institution (ERI) for the training period (if applicable), Letter of commitment/Consent to Personal Data Processing - External collaborators and the required documents if a clinical/epidemiological study is proposed. In addition, use the dedicated optional box “Referees” in this form to provide any name of reviewers to suggest or to exclude, please indicate name, surname, affiliation and email.

- **Form 14 - Validate and Download PDF.** This section reports any empty fields or errors that are highlighted in red. By clicking on the empty fields, the system opens the section that needs to be filled out. Download the application in PDF format by clicking
on the “Download/print this project” button (at the left of the page). You can download the PDF at any stage. Once the application is competed (no errors are highlighted), click on “Validate and send” to complete the submission and send the application to FFC Ricerca’s Scientific Direction.

7. Additional documents (See Forms 12 and 13 in the application platform)

7.1. Cover Letter

The application must be accompanied by a cover letter (see Form 12) summarizing:
- the general plan of the project;
- the reasons why it falls within the priorities indicated in the call for applications, in line with the objectives of the Foundation’s mission;
- why it is believed that FFC Ricerca should consider the project worthy of funding.

If applicable, the applicants can also report in the cover letter any patent registration, completed or in progress if related to the proposed project, specifying available the details.

7.2. Host Institution (HI) and External Research Institution (ERI) documents.

- “Acceptance of the HI”: an agreement with the host institution, signed by the head/responsible of the HI must be provided; the head/responsible of the HI must indicate his/her willingness to host the applicant and must provide him/her with the necessary spaces and equipment to necessary to carrying out the research activity;
- Consent for use of personal data, according to the Italian Law 196/2003.
- Declaration of commitment signed by each internal and/or external collaborator involved in the project listed in the application.
- PI declaration of adherence to provisions governing laboratory animal care, if applicable.
- If applicable, the applicant can provide a letter of intent of the head/responsible of the ERI where the training period will be carried out;

7.3. Letter of commitment/Consent to Personal Data Processing - External collaborators

The letter must include the contribution of collaborator to the project. Each External collaborator will have to upload its own Letter of Commitment written on the headed paper of department or institution.

7.4. Clinical project

Projects that fall within this intervention area must be clearly patient-oriented. They must include, even if only in part, diagnostic, therapeutic or rehabilitative interventions on humans, not foreseen by common standards or by the personal plan of diagnosis, care and rehabilitation.
7.4.1. Documentation

A clinical project must provide the following documentation, in accordance with the provisions of the Italian Ministero della Salute (D.M. 15/07/1997, D.M. 18/03/1998, D.M. 19/03/1998, DL 26/05/2000 and DL 24/06/2003):

- Ethical Committee Approval to be sent to FFC Ricerca after award of the grant and not later than 31st October 2023;
- “Parere Unico”, released by the Ethical Committee of the PI’s centre, if applicable (not later than 31 October 2023 if the project will be funded);
- Informed consent form (for interventions and for use of personal data, anonymously, for research purpose, released by patients or people involved in the study) plus information sheet for the patient;
- Declaration of Good Clinical Practice by the applicant.

7.4.2. Methods and data management

For the preparation of a clinical application, FFC Ricerca suggests following the procedures provided by the main international checklists, such as:

- CONSORT (for randomized studies)
- STROBE for observational studies
- STARD (for diagnostic studies)
- PRISMA (for systematic reviews)

Further information is also available at the link of the Equator Network Initiative.

Clinical studies are advised to use a web-based Case Report Form (CRF). Data management and monitoring could be more appropriately provided by a Contract Research Organization (CRO). Given the relevant cost of CROs, FFC Ricerca could propose one which has been assessed as reliable and cost-effective. The costs and agreement with the CRO have to be reported in the budget.

7.4.3. Projects including use of animal models

Any project involving animals testing must be accompanied by a specific authorization of the Ethics/Technical Committee of the Institute hosting the animal facility to be presented only after the grant has been awarded, and not later than 31 October 2023. Furthermore, the PI must declare that the procedures relating to these experiments will follow the indication contained in the legislative decree 2014, n. 26, “Attuazione della direttiva 2010/63/UE sulla protezione degli animali utilizzati a fini scientifici (14G00036) (GU n. 61 del 14-3-2014)”.

NOTE: If the approval of Ethic Committee (for clinical trials) or Ethic / Technical Committee (for animals) and “Parere Unico” are not available by 31 October 2023, a follow-up report on the ongoing application either to the Italian Ministero della Salute or the Local Ethical Committee must be sent to this Foundation by email. Providing this information to FFC Ricerca is crucial for the correct management of the grant.

7.4.4. Tutorship and Mentorship letter
The tutorship letter, for the GMRF must report modalities that the tutor will adopt to direct and train the young researcher during his/her research period. The mentorship letter, for the GMSG must report the mentor’s modalities to support the young researcher in his/her research period. Note that the choice made in session “General Information/Type of call” corresponds to a specific letter to be attached.

7. Evaluation of applications

Incomplete or late applications will not be processed for evaluation.

Procedures
Grants will be awarded on a priority basis. Specific factors that will play a major role in determining a successful application are:

- relevance to the FFC Ricerca's mission and to the priority areas (see point 1);
- soundness, solidity and originality of the study;
- relevance of the preliminary results;
- the potential value to improving the clinical and care strategies;
- the potential value to stimulating further studies, mainly on a translational basis;
- the adequacy of the study design;
- the scientific record of the participants;
- reliability of the methods;
- feasibility within the duration of the project;
- adequacy of the host structures;
- clarity and quality of lay summary.

All accepted applications will be subjected to a preliminary examination by the FFC Ricerca Scientific Direction with the possible support from its Scientific Committee on the basis of their relevance for the mission of the Foundation and the overall quality. A maximum 3 applications selected in this preliminary phase will undergo a full peer-review by international experts. In the final phase, the applications will be discussed by the Scientific Committee during a consensus meeting, taking into due consideration the comments of the external reviewers. The Scientific Committee will also review the research activities related to the required budget and the project duration. If the proposed activities and the budget are not considered consistent with the duration, the project will be rejected. The evaluation of the Committee is final, with the approval of the Board of Governors.

Due to the competitive nature of project selection, projects that have received a positive evaluation by the external reviewers may be denied funding.

The co-funding of projects must be declared and accurately described in the specific section of the application (see Form 10).

8. Research grants

8.1. FFC Ricerca also reminds that the project must be carried out mainly with the direct involvement of PI and internal and/or external collaborators as indicated in the application.

8.2. FFC Ricerca will directly manage the research grant. Exceptionally, other modes of managing the grant and research collaborators must be discussed with the FFC
Ricerca. Upon awarding the grant, FFC Ricerca will provide the PI with detailed information on the procedure to follow.

8.3. Principal Investigator must participate at the Annual Convention of the Italian CF Researchers as guests of FFC Ricerca. Participation in the entire Convention is mandatory because it is a working time on research funded by FFC Ricerca and not just a general updating conference.

9. Awarding and management of research funds

The allocation of funds will be formally decided by the Board of Governors of the FFC Ricerca, and communicated at the time of award. As a rule, funds are disbursed to the PI and not to the Institution where he/she intends to carry out the funded project. FFC Ricerca will manage directly the funds according to the PI’s indications. Approved PI must maintain an accurate and up-to-date administrative account, parallel to FFC Ricerca. With reference to budget indications, expenses will be administered per year. Award recipients will be required to provide a detailed annual administrative report by the end of the first and by the end of the second year to obtain subsequent payments. Any changes of the original destination of budget formalized at the time of assignment, occurring during the completion of the project, must be exceptional and formally requested and agreed with FFC Ricerca. FFC Ricerca will not pay any expenses made after the date of conclusion of the project or in excess of the assigned budget. It is not possible to issue expense orders in the last month of the project. Any costs exceeding the budget will be charged personally to the PI.

10. Scientific and administrative reports, publications

At the end of the first and the second year the PI must provide a detailed scientific and administrative progress report, which is necessary to decide the continuation of the funding. At the end of the project, the investigators are invited to submit, together with the administrative report, a final scientific report including any publications and congress presentation abstract referring to the project. Papers or abstracts reporting the project results need to be forwarded to the Foundation when submitted for publication. No publication or dissemination of the results of ongoing research should jeopardize the future patenting of any research results as a form of pre-dissemination. The Fondazione per la Ricerca sulla Fibrosi Cistica must be acknowledged in all publications deriving from the funded project (congress abstracts, book chapters, scientific articles, congress slides, press releases, etc) specifying the code of the relative grant and by inserting the FFC Ricerca logo both on the slides and the posters of the congress. Furthermore, the adopters of a project, as indicated by FFC Ricerca, have to be mentioned (see Progetti di ricerca on FFC Ricerca website). FFC Ricerca may ask investigators to collaborate to public commitment and dissemination of the results of their research in order to support the fundraising of FFC Ricerca. To this end, it is up to FFC Ricerca to contact the investigators.

11. Research results, intellectual property and patents

One of the main goals of FFC Ricerca is to translate research findings into clinical applications available to CF patients. Sometimes, this can be achieved by partnering with
the industry, so that the most promising research results can be fully developed into therapies, devices and diagnostics.

FFC Ricerca requires that all scientific results derived from projects finances by FFC Ricerca, which are of importance for a possible development, are evaluated for the purposes of patent protection and/or commercial valorization.

Funded scientists must promptly notify FFC Ricerca in writing of the intention to file any patent and the execution of agreements with for-profit entities relating to the results of research funded by FFC Ricerca.

The patent application relating to results from projects funded by FFC Ricerca must first be discussed and authorized by FFC Ricerca. The dedicated institutional offices of the founded investigators (TTOs - Technology Transfer Offices) can provide support and assistance on intellectual property matters and technology transfer activities.

In any case, the intention to file a patent application must be previously communicated to FFC Ricerca, in time to allow negotiations between TTOs of the PI’s/Collaborators Institutions and FFC Ricerca regarding evaluation of the expenses incurred by each of them and the percentage of ownership of the patent of each of the parties, both in term of expenses to sustain it and in terms of possible future revenues. The relevant agreement with the funded scientists’ institutions shall be negotiated by the parties in good faith.

FFC Ricerca reserves the right to participate in the ownership of any know how, intellectual property and inventions derived from funded projects, proportionally to its investments.

**FFC Ricerca is confident that FFC Ricerca funded researchers will operate with clarity and honesty regarding the attribution of relative merit to any work, invention or discovery. FFC Ricerca researchers must always remember that all funds supporting CF research are raised through voluntary donations.**

### 12. Writing and submitting applications

Applications must be written in English and must be as detailed as possible. Applications must be submitted through the dedicated online platform [https://forms.fibrosicisticaricerca.it/en/](https://forms.fibrosicisticaricerca.it/en/); no other submission options are available.

For first time access a registration is required to create a personal account and allow submission of applications. Care must be taken not to exceed the indicated number of characters in each form. Any images (photos, graphs, tables) must be low-resolution version, and uploaded as part of one single PDF document (max 25Mb) in section where figures are expected (Preliminary Results, Experimental Plan and Methods).

Applications must be submitted through this platform **by midnight of 15 February 2023**.

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**Appendix 1 - The FFC Ricerca facilities**

- **SCP – Primary Cell Facility (Servizio Colture Primarie)**

Established in 2012 the primary cell facility, born from the collaboration between the FFC Ricerca and the Medical Genetics laboratory of the Giannina Gaslini Institute in Genoa, provides a collection of **cell cultures obtained from bronchial epithelium of both**
CF patients and non-CF control subjects to CF researchers. The bronchi, from which the cells are isolated, come from the transplant center in Milan (Thoracic Surgery Unit, Polyclinic of Milan).

The aims of the facility are:
• the study of the pathophysiology of cystic fibrosis.
• the evaluation of therapeutic strategies.

The cells and available services are:
• collection of primary bronchial cultures isolated from bronchi of explanted lungs from individuals undergoing lung transplantation (CF patients or subjects transplanted for other pathologies)
• protocol for the correct cultivation of the submitted cells;
• training in SCP's laboratories.
• advanced tests depending on researchers requests and the expertise acquired by the lab.

The following is a list of cells genotypes available in the facility:

<table>
<thead>
<tr>
<th>Genotype 1</th>
<th>Genotype 2</th>
</tr>
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<tbody>
<tr>
<td>F508del/F508del</td>
<td>F508dl/G85E</td>
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For further information, please write to: direzionescientifica@fibrosicisticaricerca.it.

- CFaCore - Cystic Fibrosis animal Core Facility
Established in 2009, the CFaCore is an infrastructure, a stabulary with Biosafety Level 2 (BSL2), with an expertise in animal models for CF that provides different kind of services to CF researchers. CFaCore maintains CF mice colony and provides pre-clinical research to accelerate new strategies for the treatment of CF. Is located at the San Raffaele Hospital in Milan and is running since 2009. Mice colonies are managed and C57Bl/6 wt and FC mice are used to establish infection and inflammation models. CF-related pathogens such as Pseudomonas aeruginosa, Burkholderia cenocepacia and Staphylococcus aureus and related virulence factors (LPS) are used to create infection and inflammation models. Chronic lung infection is established by the inclusion of pathogens in agar beads and intratracheal administration.
Three levels of services are available to CF researchers:
• Level 1 - distribution of CF mice, such as:
  o CF transgenic mice;
  o Lung infection mouse models;
Inflammation mouse models.

Level 2 - specialized animal treatments and services, such as:
- Request to the ethics committee;
- Acute or chronic infection/inflammation model;
- Pharmacological treatments;
- Animal welfare monitoring;
- Sacrifice and collection of biological samples.

Level 3 - research project execution:
- Processing and analysis of biological samples;
- Statistical analyses.

For further information, please contact CFaCore coordinator Dr.ssa Alessandra Bragonzi, Infections and Cystic Fibrosis Unit, San Raffaele Scientific Institute. bragonzi.alessandra@hsr.it

CFDB - Cystic Fibrosis Data Base - [www.cfdb.eu](http://www.cfdb.eu)

Established in 2011, the CFDB is a web-based, free access tool for health care professionals, researchers and students to evaluate in real time what are the current evidences about clinical efficacy of interventions in CF. The CFDB collects more than 1,300 studies divided in 8 sections, including Cochrane reviews, Cochrane protocols, DARE, HTA and Economic reviews, published RCT, published non-RCT, congress abstracts and ongoing trials. In addition, CFDB collects 50 thematic worksheets, named Topics, on relevant clinical subjects in CF that critically summarize the state of the art of available evidences.

The objective of CFDB is to classify clinical studies to get answers to specific questions:
- which interventions are effective, in which groups of CF patients and for which outcomes?
- to what extent do the results of the literature allow to make decisions for specific clinical issues? What issues need to be studied further?

This tool may help clinicians, researchers, students to have a faster updated view of clinical research in CF by using queries on the main topics in CF care. It could also be helpful to anyone going to design new studies, as it provides a concise description of what is currently known and what issues, on the contrast, need additional research.

What can you do with CFDB?
- You can build a query, selecting terms from search menus;
- You can also select one or more citations and read the details of the studies;
- You can read updated summaries (Related topics) on the state of the art of the most relevant topics in CF.

For further information, please contact CFDB coordinator Roberto Buzzetti at robuzze@gmail.com.

Appendix 2 - How to write a lay summary
What is a lay summary?
A lay summary is a brief paragraph about your research project. It explains complex ideas and technical terms to people who do not know about the subject, or a lay audience. The audience of FFC Ricerca includes everyone from non-specialists in your field to volunteers, patients, caregivers and the general public.

The lay summary scheme
The lay summary should be no longer than 3500 characters with spaces included, and should consist all of the following sections and questions to answer:

- **Title**
- **Lay Title** [please avoid acronyms, e.g. cystic fibrosis not CF]
- **What is your research question?** [max 300 characters with spaces included]
- **Why is this important?** [max 700 characters with spaces included]
  (Explain the impact of the work, what is going to change)
- **How will you do the research?** [max 700 characters with spaces included]
  (Methodological information of how you will carry out your research project)
- **What do you hope to achieve?** [max 700 characters with spaces included]
  (Summary of the most important anticipated results)
- **What are the implications of your research for persons with cystic fibrosis? Reasons for caution?** [max 700 characters with spaces included]
- **Future perspectives** [max 400 characters with spaces included]

Instructions to authors:
- Make the summary easy to read and interesting. Don’t Oversimplify. While trying to make it simple, ensure that the crux of your research is not missed out. The reader must clearly understand what the research is about and how it will affect the society.
- Attempt to keep the ‘reading age’ of your summary at high school level.
- Use first person and active voice (“we agreed” rather than “it was agreed”).
- Use positives not negative sentences.
- Keep sentences short, clear and focused.
- Do not overstate the importance/relevance of your study. Place it honestly within the existing literature and how the study adds to current knowledge.
- Avoid jargon and scientific abbreviations (e.g. FEV1) unless absolutely necessary. Technical terms and complex mechanisms/measurements need to be thoroughly explained using basic terminology. Acronyms should be used sparingly and must be spelled out on first reference.