

CLIN1: Funding Opportunity for Late Stage Preclinical Projects



PROGRAM ANNOUNCEMENT
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CLIN1: Funding Opportunity for Late Stage Preclinical Projects

Objective

The mission of California Institute for Regenerative Medicine (CIRM) is to accelerate world class science to deliver transformative regenerative medicine treatments in an equitable manner to a diverse California and world.

The objective of this program announcement is to support late-stage preclinical studies necessary to file and attain an active IND with the Food and Drug Administration (FDA) and initiate start-up activities to prepare for a clinical trial for a regenerative medicine therapy (stem cell-based or genetic therapy).

Under this program, CIRM will act not only as a funding agency, but will also devote significant internal resources and leverage its external team of world-class subject matter experts to actively advance the project. The result of a successful application will be the formation of a true partnership that both accelerates the program and gives it the greatest opportunity for success.

Contact

For information about this program announcement send email correspondence to Clinical@cirm.ca.gov.



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Award Information

What activities will CIRM fund?

CIRM funds **will** support the following activities under this opportunity:

- ✓ All activities necessary for the conduct and completion of IND-enabling activities necessary for the filing of a single IND with the FDA to initiate a clinical trial with a single therapeutic candidate
- ✓ Product development activities appropriate to support the IND filing and the resulting clinical trial
- ✓ Manufacturing of the therapeutic candidate to support IND-enabling studies or to support the intended clinical trial(s)
- ✓ Clinical trial start-up activities
- ✓ Activities that support diversity, equity, and inclusion (DEI) goals described in the proposal.
- ✓ Activities associated with sharing data and knowledge from the study

CIRM funds **cannot** be used to support the following activities under this opportunity:

- ✗ The conduct of a clinical trial beyond start-up activities
- ✗ Patient recruitment, screening, or enrollment
- ✗ Studies for therapeutic candidate discovery including lead optimization or lead candidate selection
- ✗ Activities already budgeted or paid for under a prior, existing or future CIRM award

What is the award amount and duration?

CIRM expects projects to advance rapidly and will not accept applications under this program that propose more than 24 months from the award start date (approximately 45 days after the date of ICOC approval) to the planned filing of an IND.

Total CIRM-Funded Project Costs for a CLIN1 project are limited to:

- \$7,500,000 per award to a non-profit awardee; and
- \$5,000,000 per award to for-profit awardee

The amount of direct project costs requested must be adequately justified and is subject to adjustments prior to issuance of an award based upon assessments of the Grants Working Group (GWG), the CIRM team, or by the Application Review Subcommittee of CIRM's Governing Board.

How will funds be awarded?

Funds will be disbursed pursuant to a CIRM Notice of Award. Awardees may elect, upon completion of their award, to treat their award as a loan pursuant to CIRM's award conversion policy. (See the most recent [Grants Administration Policy](#) for Clinical Programs.) Except for the first payment issued upon initiation of an award, payments will be disbursed upon completion of specific operational milestones. Continued funding is contingent upon timely progress, as outlined in the operational milestones established under the Notice of Award, and, when applicable, the ongoing ability of the applicant to fund its operations and to satisfy its co-funding commitment.



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Costs resulting from a delay or failure to meet an Operational Milestone will be the sole responsibility of the recipient. Successful applicants will have thoughtfully accounted for foreseeable project risks and developed contingency plans that **do not** involve additional funding from CIRM (see “Plans for Risk Mitigation & Financial Contingency” under application components). CIRM expects projects to advance rapidly and will not accept applications under this program that propose more than 24 months to file an IND with the FDA. Applicants may propose clinical trial start-up activities extending up to six months beyond the IND filing date.

Eligibility

What types of projects are eligible for funding?

To be eligible, the proposed project must satisfy the following requirements (1-9):

(1) The applicant must be ready to initiate work on the funded project within 45 days of approval

Given the urgency of CIRM’s mission, all approved awardees must initiate work on the funded project within 45 days of approval and authorization for funding by the Application Review Subcommittee of CIRM’s governing board, the Independent Citizens’ Oversight Committee (“ICOC”).

Because of the open and ongoing nature of this Program Announcement, investigators should only apply when their project has reached the stage where all eligibility criteria are met. **CIRM reserves the right to refuse to consider an application that is submitted prior to the completion of all necessary prerequisites.**

(2) The applicant must propose studies to support the filing of a single IND with a single regenerative medicine-based therapeutic (stem cell-based or genetic therapy).

CIRM will support preclinical studies that enable an IND filing for a therapeutic candidate that is either:

- ✓ A cell therapy where human stem or progenitor cells¹ (collectively, “stem cells”) either compose the therapy or are used to manufacture the cell therapy. Minimally manipulated bone marrow, minimally manipulated cord blood or unmodified hematopoietic stem cells (HSCs), are eligible **only if** being developed as a novel method of addressing a rare or unmet need.
- ✓ A genetic therapy² approach (i) that targets a human somatic cell for its therapeutic effect, **AND** (ii) is intended to replace, regenerate, or repair the function of aged, diseased, damaged, or defective cells, tissues, and/or organs.
- ✓ A small molecule or biologic (i) that acts on or is dependent on endogenous human stem cells for its therapeutic effect, that is dependent on targeting

¹ Under Proposition 14, progenitor cells are “multipotent or precursor cells that are partially differentiated but retain the ability to divide and give rise to differentiated cells.”

² For the scope of this solicitation, CIRM considers genetic therapy to mean a human therapeutic intervention that: 1) alters the genomic sequence of cells or 2) introduces or directly manipulates nucleic acids (such as mRNAs, antisense oligonucleotides) in cells. The intervention may include strategies to repair a disease-causing gene sequence, remove or inactivate a disease-causing gene, or introduce new or modified nucleic acids that augment the therapeutic potential of the target cells.



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human cancer stem cells for its therapeutic effect, that modifies a stem cell therapy, **OR** where a human stem cell is necessary to manufacture the therapy (e.g., extracellular vesicles).

(3) The applicant must demonstrate appropriate stage of readiness

All projects developing a stem cell treatment, a combination product including a stem cell therapy or biologic component, or a biologic product regulated through the Center for Biologics Evaluation and Research (CBER) must have completed a pre-IND submission and received a written response from the FDA and must provide the official meeting correspondence (see application).

All projects developing a small molecule or biologic candidate regulated through the Center for Drug Evaluation and Research (CDER) must have selected a lead candidate and have already performed proof of concept studies and have pharmacokinetic/pharmacodynamic (PK/PD) data with the lead candidate. The pre-IND meeting must be completed if a pre-IND meeting is planned.

The proposed date of IND filing must be within 24 months from the project start date.

Allogeneic Donor Cell Eligibility

For all projects developing a product candidate that includes allogeneic (donor-derived) cells:

- The cell source (tissue or cell line) proposed for use must have been consented by the donor for intended use and for clinical development and commercial sale.
- The cells must meet the Good Tissue Practices (GTP) requirements for donor eligibility (21 CFR 1271 (subpart C)), or there is plan in place to address the GTP requirements.

(4) The project team must include an experienced project manager

The project team must include a project manager who has experience managing development programs and is able to devote at least 50 percent effort to the project.

(5) The applicant must propose appropriate co-funding and demonstrate availability of funds

CIRM will require co-funding from the for-profit applicant or for-profit Partner of the non-profit applicant based on the total "Allowable Project Costs". Non-profit applicants may provide co-funding, but it is only required when project costs are in excess of the maximum CIRM award amount.

Allowable Project Costs are those costs permitted under CIRM policies and regulations and include direct, facilities and indirect costs. The sum of CIRM funds requested plus the co-funding contribution by the applicant make up the total Allowable Project Costs. For-profit CLIN1 applicants must commit at least 20% of total Allowable Project Costs as the co-funding amount on the project. Only funds that will be spent concurrently with CIRM funds (i.e., no sooner than board approval and no later than completion of the final Operational Milestone) will qualify toward this co-funding requirement.

Description and documentation demonstrating the commitment of funds to cover the proposed co-funding amount must be provided at the time of application submission by the application deadline. The co-funding may come from any funding source arranged by the applicant but may not include "in-kind" or similar types of support. The applicant may propose to use cash-on-hand, committed funding and/or planned



fundraising as sources of funds for the co-funding commitment but must demonstrate that it will have cash-on-hand at project start date to co-fund at least the first operational milestone disbursement. Applicants are advised to refer to the Solvency & Co-Funding Template in the Document Uploads Section of the Application for additional instructions and guidance on co-funding requirements.

Alternatively, for-profit applicants and for-profit Partners of non-profit applicants may elect to fulfill all or a portion of the minimum co-funding requirement by agreeing to issue equity warrants to CIRM. Applicants electing the warrant-based co-funding requirement may request CIRM funding to cover the co-funding commitment up to the award limit. Applicants who elect the warrant-based co-funding requirement must sign the Warrant Term Sheet at application submission and must issue equity warrants at the award start date. Applicants are advised to contact bd@cirm.ca.gov for additional guidance and information on warrant-based co-funding.

Summary of Project Costs and Co-funding

Applicant Type	Total CIRM-Funded Project Cost	Minimum Co-funding Required
Non-profit	\$7.5M	None
Non-profit with for profit Partner	\$7.5M	20% of allowable project costs
For-profit	\$5M	20% of allowable project costs

(6) For-profit organizations must demonstrate solvency

For-profit organizations must provide documentation that shows cash on hand or funding from committed sources that will cover company expenses for 180 days from the date of application submission. These funds must be distinct from, and in addition to, funds for meeting the co-funding requirement for the term of the project and funds for the applicant’s financial contingency plan. The determination of solvency will be made at CIRM’s sole discretion.

(7) The CIRM applicant must be the IND sponsor

The intended IND sponsor (i.e., the entity to be named as the sponsor on the IND application to the FDA) must be the CIRM applicant organization if an organization-sponsored IND or the CIRM PI if an investigator-sponsored IND.

(8) The application must be accurate and complete

All required components of the application must be completed and may not contain false or inaccurate information.

(9) The applicant must be in “good standing”

Applicants must certify that they are in good standing, as follows:

- The applicant’s Chief Executive Officer, Chief Financial Officer, and Principal Investigator must not have been convicted of, or currently under investigation for, crimes involving fraud/misappropriation;
- The applicant must have accounting systems in place that are capable of tracking CIRM funds; and



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- The Principal Investigator or key personnel named in the application must not be currently under investigation for research misconduct by the applicant institution or a funding agency and must not be currently debarred by HHS Office of Research Integrity.
- The applicant organization must describe any pending legal proceedings to which the organization (or any of its affiliates or subsidiaries) is a party or of which any of their products or property is the subject of the proceeding;
- The applicant organization, including any of its affiliates or subsidiaries, must describe any governmental investigation, or any administrative or judicial proceeding arising under any Federal, State, or local provisions;
- The applicant organization must describe any outstanding UCC, federal or state tax judgment lines; and
- For-profit applicants must provide a certified copy of a Certificate of Good Standing dated within 60 days of the date of their CIRM application from the jurisdiction in which the for-profit applicant organization is incorporated.

Who can apply?

California Organizations

A "California Organization" is a for-profit or non-profit organization or is a California-domiciled wholly owned subsidiary of a non-California organization (any entity that does not qualify as a California Organization) that meets all of the following criteria:

1. Employment and Payroll:

- a. Employs at least one W-2 employee; and
- b. More than 50% of its W-2 employees, whether part-time or full-time, who are paid in any manner (e.g., wage, salary, commission, equity), must reside in California and be required to file California state income taxes due to their employment with the organization.

2. Management of Award Activities: The Principal Investigator (PI) must be physically located in California while overseeing all project activities.

3. Intellectual Property Rights: In the case of a California-domiciled wholly owned subsidiary of a non-California organization, the subsidiary must retain exclusive rights to any intellectual property arising out of the CIRM-funded project.

For a California Organization, Allowable Project Costs include:

- ✓ Costs for research activities conducted wholly in California; and
- ✓ Costs for research activities conducted outside of California, provided that the California Organization exercises direction and control over the activities.

Non-California Organizations

A Non-California Organization is a for-profit or non-profit organization that employs and pays 50% or less of its employees in California.

For a Non-California Organization, Allowable Project Costs include:

- ✓ Costs of non-clinical research activities conducted wholly in California.
- ✓ Costs of clinical trial start up activities conducted wholly in California.

Unallowable Costs

Unallowable Project Costs include:



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- ✘ The costs of activities performed by a separate out-of-state organization that retains intellectual property or independent publication rights in any intellectual property (e.g., invention, technology, data) arising out of the CIRM funded project.
- ✘ Project costs incurred on or before the date the ICOC approves the application for funding.

CIRM Discretion

CIRM may determine, in its sole discretion, whether an applicant is a California organization and whether the project activities are allowable.

If an applicant is a non-California organization at the time of application but intends to become a California organization by the time this project would need to execute a CIRM award contract (~165 days from time of application), then the applicant may submit a budget that includes the Allowable Project Costs for California organizations and must describe its intentions and the timing of becoming a California organization in this application.

Funding of Non-Allowable Project Activities

The applicant must demonstrate by the application deadline a commitment of funds from other sources for non-allowable project activities that are necessary to achieve the goals of the application.

Who can serve as the Principal Investigator (PI)?

To be eligible, the PI must satisfy the following requirements:

- Must be an employee of the applicant organization or be accountable for the conduct of the proposed project to the applicant organization through a formal contract.
- Must propose a level of effort on the project consistent with achieving the project's aims and not less than 15% on average over the project period. (Note: "project" includes both the CIRM-funded and applicant co-funded components.) Any effort for which salary from CIRM is claimed must be expended in California.
- Must be authorized by the applicant organization to conduct the research and assume the responsibilities of the PI.
- Must not currently have another application pending review or approval under this funding opportunity.
- Must not currently have another application that is substantially similar or has overlapping activities pending review or approval under any CIRM opportunity.



Application Review Information

Schedule and Deadlines

Applications Due	2:00 pm (PDT/PST) on the last business day of each month (except September)
Grants Working Group (GWG) Review	Approximately 90 days post submission
ICOC Review and Approval	Approximately 120 days post submission
Award Start	Must start within 45 days of award approval (i.e., approximately 165 days post submission)

What is the process for evaluating an application?

Pre-submission Consultation

In accordance with CIRM's mission, the Agency is committed to helping develop promising stem cell treatments by partnering with world-class investigators. Therefore, prospective applicants are encouraged to contact CIRM before applying with questions or to discuss their project's eligibility, scientific, or budget considerations.

Eligibility Review

CIRM will assess whether the proposed project meets eligibility requirements sought under this program. If CIRM determines, in its sole discretion, that an application does not meet the eligibility requirements of the program, CIRM will notify the applicant of its decision, and if CIRM deems it appropriate, allow an opportunity to remedy. If CIRM deems it inappropriate, or if the applicant does not remedy the error in a timely manner, CIRM will delay or terminate further action on the application.

CIRM may exercise its authority to make eligibility determinations at any time before an award is executed.

Qualification Process

When CIRM receives more than five new clinical stage applications (CLIN1 and CLIN2) per review cycle, a qualification step will be applied that will prioritize applications that are most aligned with CIRM goals and program priorities. Applications will first be ranked based on a defined set of objective factors that are scored by CIRM staff. If these factors are not sufficient to select the five most responsive applications for a given cycle, a subset of the scientific review criteria will be used by GWG scientists to make final selections. Applications will remain in the qualification pool for up to two additional review cycles. If an application is not selected for review after these opportunities, the application is removed from further consideration and the same or substantially similar application cannot be submitted for six months from the date of the third qualification cycle. CIRM staff may prioritize applications that:

- Develop a cell therapy candidate derived from pluripotent stem cells;



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- Develop a therapeutic candidate that is a genetic therapy, episomal therapy derived from stem cells, or stem cell therapy (excluding unmodified HSC and minimally manipulated cells);
- Are submitted by a California-based organization;
- Advance a previously CIRM-funded project to the next stage;
- Are at a more advanced stage of development than competing applications;
- Target a disease of the brain or central nervous system

CIRM GWG will prioritize applications based on the following criteria, which are a subset of the current scientific review criteria in the CLIN1 and CLIN2 PAs:

- How impactful would the proposed treatment be for patients if successfully developed?
- How significant is the unmet need that is being addressed?
- How practical and feasible is the proposed treatment for it to be adopted by patients and healthcare providers?
- How responsive is the proposal in providing a DEI plan?

Budget Review

CIRM will review the proposed budget to assess how well the proposed costs are justified and confirm that costs designated as Allowable Project Costs comply with CIRM policies. When a proposed budget is not well justified or does not comply with Allowable Project Cost policy, adjustments to the budget will be required by CIRM prior to further review of the application, at CIRM's sole discretion. Applicants will be notified of the specific discrepancies and applications will not be forwarded for scientific review until an amended budget has been submitted and approved by CIRM. Additionally, project budgets may be subject to further adjustments prior to issuance of an award based upon assessments of the GWG, the CIRM team, or by the Application Review Subcommittee of the ICOC.

Scientific Review

The scientific merit of each application will be assessed by the GWG, which is composed of fifteen subject matter experts from outside California, seven patient advocate and nurse members of the ICOC, and the Chair of the ICOC. The list of scientific members who may participate in the GWG review can be found at http://www.cirm.ca.gov/WorkingGroup_GrantsReview. The composition of the ICOC can be viewed at <https://www.cirm.ca.gov/board-and-meetings/list-icoc-members/>.

The fifteen participating scientists on the GWG will evaluate the applications and score them according to scientific and technical merit, applying the review criteria described below. The GWG will score each application and make one of the following specific recommendations to the ICOC's Application Review Subcommittee: 1) fund the project based on its exceptional merit; 2) do not fund the project but allow for resubmission to address areas for improvement; or 3) do not fund the project and do not allow resubmission for six months from the date of the review. In the event the GWG recommends amendment and resubmission, the applicant may elect, prior to the ICOC's final funding decision, to amend and resubmit the application for reevaluation by the GWG. Absent a tie, resubmitted applications can only receive a score of 1 or 3. If no majority exists for a score of 1 or 3 for any resubmitted application, then the resubmitted application shall automatically be assigned a score of 2.

The ICOC patient advocate and nurse members participating on the GWG will evaluate the applications on diversity, equity and inclusion.



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The ICOC's Application Review Subcommittee will make final funding decisions giving consideration to the GWG recommendations and any CIRM team recommendations.

Consideration of Related CIRM Award Information (If Applicable)

The GWG may consider information from a previously funded and related CIRM award as part of its review. CIRM will provide the GWG with objective information regarding a related award that CIRM, in its sole discretion, deems relevant, including but not limited to achievement of specific milestones, data, and outcomes for a related CIRM award or awards.

A "related CIRM award" includes: (1) an award for which the applicant PI served as the PI, a co-PI, a co-investigator, or otherwise substantially participated in the conduct of the award; (2) an award involving the same research project or product; or (3) an award that includes overlapping team members.

Confidentiality

CIRM's confidentiality and conflict screening rules apply to everyone who will have access to applications or who will attend any review meeting in which confidential information is discussed, including but not limited to CIRM team members, reviewers, and members of the ICOC. (Per Gov. Code §6254.5(e) non-public records may be disclosed to government agencies under confidentiality agreements).

Change in Status

Applicants are required to notify CIRM of any material change in status while the application is pending review, e.g., the applicant has commenced the trial that is the subject of the award, the applicant no longer qualifies as a California Organization, etc.

How will the scientific merit of an application be evaluated?

Scientific members of the GWG will evaluate and score applications based on the following five review criteria:

1. Does the project hold the necessary significance and potential for impact?

Does the proposed treatment address an unmet medical need? Is the approach likely to provide an improvement over the standard of care for the intended patient population? Does the proposed treatment offer a sufficient value proposition such that the value created by the treatment supports its adoption by patients and/or health care providers?

2. Is the rationale sound?

Is the proposed project based on a sound scientific and/or clinical rationale? Is the project plan supported by the body of available data? Do the data support the continued development of the treatment?

3. Is the project well planned and designed?

Is the project appropriately planned and designed to meet the objective of the program announcement and achieve meaningful outcomes to support further development of the therapeutic candidate? Manufacturing plays an important role in clinical projects. Accordingly, is the proposed manufacturing plan appropriately designed and budgeted for both time and cost? Do the project plan and timeline demonstrate an urgency that is commensurate with CIRM's mission (i.e., Are the proposed experiments essential



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and do they create value that advances CIRM's mission? Is the timeline appropriate to complete the essential work without unnecessarily extending it for non-essential activities)?

4. Is the project feasible?

Are the intended objectives likely to be achieved as proposed within the proposed timeline? Is the proposed team appropriately qualified and staffed? Does the team have access to all the necessary resources, appropriate facilities and expertise to conduct the proposed activities, including manufacturing? Does the team have a viable contingency plan to manage risks and delays?

5. Does the project uphold principles of diversity, equity, and inclusion (DEI)?

Does the applicant understand the race, ethnicity, sex, gender, and age-based health disparities associated with the target indication? Has the applicant developed goals to achieve an inclusive distribution of subjects by race, ethnicity, sex, gender, and age in their future clinical trial(s) of the product?

Does the preliminary plan for inclusive outreach, engagement, enrollment, and retention address key barriers to trial participation faced by underserved demographic groups? Is the plan well-matched to the needs of potential participants in the applicant's future trial(s)? If activities for building cultural sensitivity on the team are proposed, are they well-matched to the needs of the project?



Application Components and Submission

How does one apply?

Applications must be completed and submitted online using the CIRM Grants Management Portal at <https://grants.cirm.ca.gov>. Any prospective PI must create a login in the system to access application materials and apply. Applications are available in the system only to the PI and his or her designee. A PI may submit only a single application in a given review cycle.

Applications are due by 2:00pm (Pacific Time) on the last business day of each month, except September. Applications received after the deadline will be deferred to the next monthly review cycle.

What components does an application include?

CIRM's online application is designed to collect information for CIRM staff to assess eligibility, for Grants Working Group reviewers to evaluate the project, and for CIRM to rapidly initiate an award if the project is approved for funding.

It includes overview sections characterizing the proposed team, the proposed product, and major planned activities; an eligibility form; a template Proposal; a detailed Data Sharing and Management Plan, a detailed Activity-Based Budget, and an application uploads section for reference documentation including Key Personnel Biosketches and FDA correspondence.

What are the contents of the Proposal?

Project Summary: High-level summary of the project.

Target Product Profile: Template-based product label containing base case and optimal product specifications for the proposed product.

Value Proposition: Description of the unmet need and the product's potential value to patients, healthcare providers and caregivers.

Diversity, Equity, and Inclusion (DEI): Statement describing how the project will help fulfill the unmet medical needs of the diverse California patient population. See full description below.

Scientific Rationale: Explanation of how published and preliminary research findings support use of the proposed product as a therapy for the target indication.

IND-Enabling Studies: Template-based tabular summary of proposed (and completed) IND-enabling studies

Clinical Studies: Template-based tabular summary of completed or ongoing clinical studies with the proposed or a related product.

Gantt-Like Timeline: Timeline for all proposed activities.

Project Plan: Description of all proposed activities detailing how the objective of the Program Announcement will be met.

FDA Correspondence: Template-based tabular summary of regulatory requests and proposed action plans.

Manufacturing Progress Report: Template-based description of progress in the development of the manufacturing plan for the proposed trial.

Clinical Protocol Progress Report: Template-based description of progress in the development of the protocol for the proposed trial.



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Clinical Operations Progress Report: Template-based description of progress in the development of clinical operations plans for the proposed trial.

Plans for Risk Mitigation & Financial Contingency: Project risks, surveillance and mitigation strategies, contingency plans, associated costs, and non-CIRM sources of contingency funding.

Team Organization: Qualifications of the proposed team and plans for team collaboration.

Resources & Project Environment: Institutional offerings that will benefit the project.

Commercial Development: Plans for effective and inclusive commercial development of the product.

References: Sources cited in the proposal.

How does one address diversity, equity, and inclusion (DEI)?

In the DEI section of the proposal, all applicants for the CLIN1 program will be required to characterize race, ethnicity, sex, gender, and age-based health disparities associated with the target indication. Applicants will develop goals to achieve an inclusive distribution of subjects by race, ethnicity, sex, gender, and age in the future trial(s).

Additionally, CLIN1 applicants will be required to provide a preliminary plan to achieve inclusive outreach, engagement, enrollment, and retention of trial participants from underserved groups. The plan must be well-matched to the needs of the future trial(s). CLIN1 applicants are encouraged to proposed activities supporting the development of cultural sensitivity on the proposed team and/or at partner institutions. Proposed activities for building cultural sensitivity on the team should be well-matched to the needs of the project.

Applicants are encouraged to review the FDA's guidance on diversity in clinical trials, available at: <https://www.fda.gov/regulatory-information/search-fda-guidance-documents/enhancing-diversity-clinical-trial-populations-eligibility-criteria-enrollment-practices-and-trial>, as well as the guidance snapshot: <https://www.fda.gov/media/168352/download>.

The GWG and CIRM's governing board will evaluate these statements as a review criterion in making funding recommendations. Priority will be given to projects with the highest quality plans in this regard.

What is required in a Data Sharing and Management Plan?

The sharing of data and knowledge produced from CIRM-funded projects is key to advancing the field of regenerative medicine and accelerating treatments to patients. CIRM requires its awardees to develop and execute a Data Sharing and Management Plan that includes management and preservation of data and making applicable data available to the broader scientific community. CIRM also requires sharing of data in accordance with FAIR data principles through established repositories including, but not limited to, specialized NIH-supported repositories, generalist repositories, cloud platforms, and institutional repositories. The Data Sharing and Management Plan must be included in the application and the plan is subject to evaluation by the Grants Working Group. Applicants are required to allocate funds in their proposed budget for personnel and/or activities related to managing and sharing data produced from the funded project. The repository selected and summary of the data shared must be



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reported to CIRM during and after the project period. To promote the generation of knowledge CIRM may publicly share where CIRM-funded data are deposited.

Who are Key Personnel?

In the application, we ask you to identify by name pertinent Key Personnel and their specific roles on the project. Key Personnel are defined as (1) the principal investigator or program director; or (2) any other person, including an independent consultant or an employee of a Subcontractor or Partner, who is expected to contribute to the scientific development or execution of the project in a substantive, measurable way *and* who is expected to: (a) receive or has been promised income, or anything else of value, of \$10,000 or more per year for his or her contribution to the project or (b) contribute one percent (1%) or more effort to the proposed project. "Key Personnel" does not include a person who is expected to be involved in the proposed project but who does not satisfy conditions (1) or (2).

Individuals who do not meet the definition of Key Personnel may be supported with CIRM funds, but should **not** be identified by name in the application. Such unnamed personnel may be referenced indirectly by their role on the project (e.g., technician). The budget includes a line item for requesting support for unnamed personnel.

What should one know before preparing the budget?

A specific and well-justified activities-based budget must be provided that clearly outlines the total costs of the project, including those costs not proposed to be funded by CIRM. The corresponding budget justification should provide enough detail to allow budget professionals to determine the appropriateness of the costs in relation to the activities being performed. Allowable Project Costs for research funded by CIRM are detailed in the CIRM Grants Administration Policy for Clinical Stage Projects (https://www.cirm.ca.gov/sites/default/files/files/funding_page/CIRM_Grants_Administration_Policy_for_Clinical_Stage_Projects.pdf). Generally, project costs for personnel, supplies, travel, equipment, and subcontracts may be claimed. Limits for specific cost categories must be observed.

What are Direct Facilities Costs and how much can an applicant claim?

Direct Facilities Costs are the general operating costs of the awardee's facilities attributable to housing all elements of the CIRM-funded project or activity. Facilities costs for non-profit applicant organizations are limited to the current applicable, federally negotiated rates for the organization as defined by the Office of Management and Budget (OMB) Circular A-21 or A-122. Facilities rates for for-profit applicant organizations are limited to 35% of the direct project costs. Facilities rates are applied to direct project costs exclusive of the costs of equipment, tuition and fees, research patient care costs, as well as the costs of each individual subcontract, consultant, and service agreement in excess of \$25,000. The facilities cost rates approved and in place at the time of the application are to be applied to the entire award project period.

What are indirect costs and how much can an applicant claim?

Indirect Costs are administrative costs of the awardee incurred for common or joint objectives, which cannot be readily and specifically identified with a particular project. For-profit organizations cannot claim indirect (administrative) overhead costs. For non-profit organizations, indirect costs will be limited to 20% of allowable direct research funding costs awarded by CIRM (i.e., direct project costs and facilities costs), exclusive of the costs of equipment, tuition and fees, research patient care costs, as well as the costs of each individual subcontract, consultant, and service agreement in excess of



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\$25,000. The indirect cost rate budgeted at the time of application is to be applied to the entire award project period.

How does one utilize CIRM Infrastructure Programs?

CIRM has established a set of Infrastructure Programs to help CIRM applicants and awardees prepare competitive applications and to accelerate the conduct of high-quality stem cell clinical trials and research.

The CIRM Alpha Stem Cell Clinics are a statewide network composed of nine leading California Medical Centers (<https://www.cirm.ca.gov/patients/alpha-clinics-network>). The Network has performed over 200 stem cell clinical trials for academic and commercial partners (<https://www.cirm.ca.gov/patients/alpha-clinics-network/alpha-clinics-trials>). Applicants and awardees can partner with the CIRM Alpha Stem Cell Clinics Network to identify California trial sites, evaluate patient cohorts, and accelerate trial initiation and completion.

The CIRM Cell and Gene Therapy Manufacturing Network is currently composed of nine non-profit GMP manufacturing facilities that are co-located with the Alpha Clinics. Applicants and awardees can utilize the Network GMP facilities for process development, manufacturing, quality control testing and other related services. To inquire about Network services in preparation for your CLIN application, please contact bd@cirm.ca.gov and clinical@cirm.ca.gov with the subject line “CLIN application – GMP Network” and a description of your project needs and inquiries.

Other Resources

CIRM Industry Resource Partner Program

As part of the CIRM Industry Resource Partner Program, CIRM is working to onboard several industry contract development and manufacturing organizations (CDMOs) and contract research organizations (CROs) that are interested in making their consultations, services, and resources more accessible to CIRM-funded projects. If you are interested in learning more about potential CDMO/CRO resources in preparation for your CLIN application, please contact bd@cirm.ca.gov and clinical@cirm.ca.gov with the subject line “CLIN application – IRP Resources” and a description of your project needs and inquiries.



Award Administration

Issuance of Award

A CIRM award is issued via a Notice of Award Agreement, which is the formal contract that defines the terms and conditions of an award and documents the commitment of funds from CIRM.

Operational Milestones and Payment

CIRM funds under the award will be disbursed based on achievement of specific Operational Milestones established by CIRM. An “Operational Milestone” is an objective event that is indicative of project progress occurring as proposed in the application. CIRM establishes Operational Milestones for inclusion in the Notice of Award based upon information provided in the Application. Upon issuance of the award, funds budgeted to achieve the initial Operational Milestone will be disbursed. Upon the successful completion of the initial Operational milestone and each successive milestone, additional funds will be disbursed. If funds allocated to a specific Operational Milestone (including both CIRM funds and the required applicant co-funds) are exhausted prior to achievement of that milestone, the Awardee will be responsible for covering any remaining costs. CIRM expects that the applicant’s contingency plan will identify project timeline and budget risks and will provide details for covering such costs, including the source of funding. CIRM reserves the right to make adjustments to the timeline for inclusion in the Notice of Award to ensure that funds are appropriately dispersed across Operational Milestones.

If CIRM determines, in its sole discretion, that an awardee has failed to satisfy an Operational Milestone within four months of the date that the Operational Milestone was scheduled to have been completed, or if the delay is not addressed to CIRM’s satisfaction, CIRM may permanently cease disbursements and terminate the award.

Suspension Events

CIRM reserves the right to hold or terminate disbursements if CIRM determines, in its sole discretion, that a Suspension Event has occurred. A “Suspension Event” means a pre-defined condition that triggers a hold of CIRM funding until the suspension event has been resolved, if resolvable. Following a Suspension Event, the Awardee is expected to provide CIRM with a plan to resolve the issue that triggered the Suspension Event. CIRM establishes Suspension Events for inclusion in the Notice of Award based on information provided in the Application.

Reporting

Awardees will be required to provide periodic written progress and financial reports to CIRM. Awardees developing a therapeutic will be required to submit a Quality Target Product Profile annually and at the conclusion of the award.

Upon approval of an award, CIRM will appoint a Clinical Advisory Panel (CAP) to partner with the awardee. The CAP will be composed of at least one CIRM science officer, one external advisor, and a patient representative and will provide guidance and advice to foster success of the project. CAPs have the ability to enlist the help of CIRM’s external subject matter experts when needed. Awardees will have ongoing communication with the CAP throughout the duration of the award, typically meeting by teleconference on a quarterly basis and in person once a year.

CIRM Regulations



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Awards made through this program announcement will be subject to all applicable CIRM regulations. These regulations can be found on CIRM's website at <https://www.cirm.ca.gov/our-funding/cirm-stem-cell-grant-regulations/>

Clinical Trials

Clinical trials funded by CIRM must be listed on <http://www.clinicaltrials.gov/> and awardees must submit the administrative and scientific results of the trial to the clinicaltrials.gov results database within one year of completion of the studies (in compliance with FDAAA801), for the benefit of the field.

A list of frequently asked questions regarding managing a CIRM award can be found at <https://www.cirm.ca.gov/researchers/managing-your-grant>.



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Definitions

“For-profit organization” means: a sole-proprietorship, partnership, limited liability company, corporation, or other legal entity that is organized or operated for the profit or financial benefit of its shareholders or other owners. Such organizations also are referred to as “commercial organizations”.

“Non-profit organization” means: (1) a governmental entity of the state of California; or (2) a legal entity that is tax exempt under Internal Revenue Code section 501(c)(3) and California Revenue and Taxation Code section 23701d.

“Operational Milestone” means an objective event with defined criteria that is indicative of successful project progress on a “critical path” activity, that if not achieved in a timely manner will inhibit the accomplishment of the expected project outcome in the allowable project period.

“Partner” means an organization that, in exchange for the right to the opportunity for a future financial return, has (1) agreed to provide matching funds for the proposed project or (2) entered into an agreement with the applicant organization relating to the commercialization of the proposed product.

“Subcontractor” means an organization (other than the applicant organization) that is expected to: (a) contribute to the scientific development or execution of the project in a substantive, measurable way *and* (b) receive \$25,000 or more through the proposed project. “Subcontractor” does not include suppliers of widely available goods.

“Suspension Event” means a pre-defined condition that triggers a hold of CIRM funding until the suspension event has been resolved, if resolvable.



Recent Document Revisions

Date	List of Changes
07/03/2024	<ul style="list-style-type: none"> • Added qualification process • Updated PA contact information • Removed medical device track • Clarified fundable activities • Increased award caps • Introduced co-funding for not for profit applicants with a for profit Partner. • Removed co funding for un partnered not for profit applicants • Introduced warrant co-funding option • Updated solvency language • Updated good standing requirements • Clarified definition of California organization • Removed references to CIRM/NHLBI Cure Sickle Cell Joint Initiative • Updated unallowable costs description. • Updated budget review process • Updated eligibility review language • Referenced FDA’s guidance “Enhancing the Diversity of Clinical Trial Populations — Eligibility Criteria, Enrollment Practices, and Trial Designs Guidance for Industry” • Added QTPP reporting requirement