

INFR6 Awards

Shared Resources Laboratories (SRL)
for Stem Cell-Based Modeling **Program**

Informational Webinar

June 26, 2023

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Scientific Programs
and Education

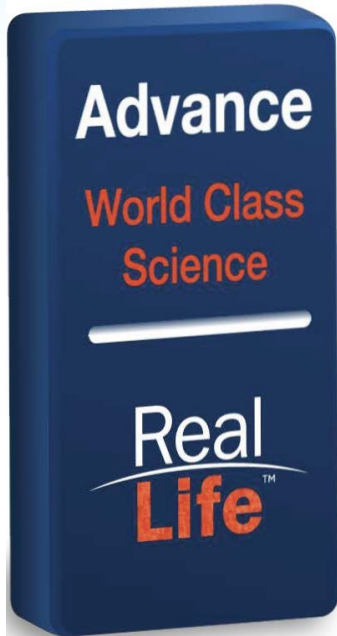


OUR MISSION

Accelerating world class science
to deliver transformative
regenerative medicine treatments
in an equitable manner to a
diverse California and world



5-year Strategic Summary



- Develop Competency Hubs
- Build Knowledge Networks



- Advance therapies to marketing approval
- Create a manufacturing partnership network
- Expand Alpha Clinics Network
- Create Community Care Centers of Excellence



- Build a diverse and highly skilled workforce
- Deliver a roadmap for access and affordability

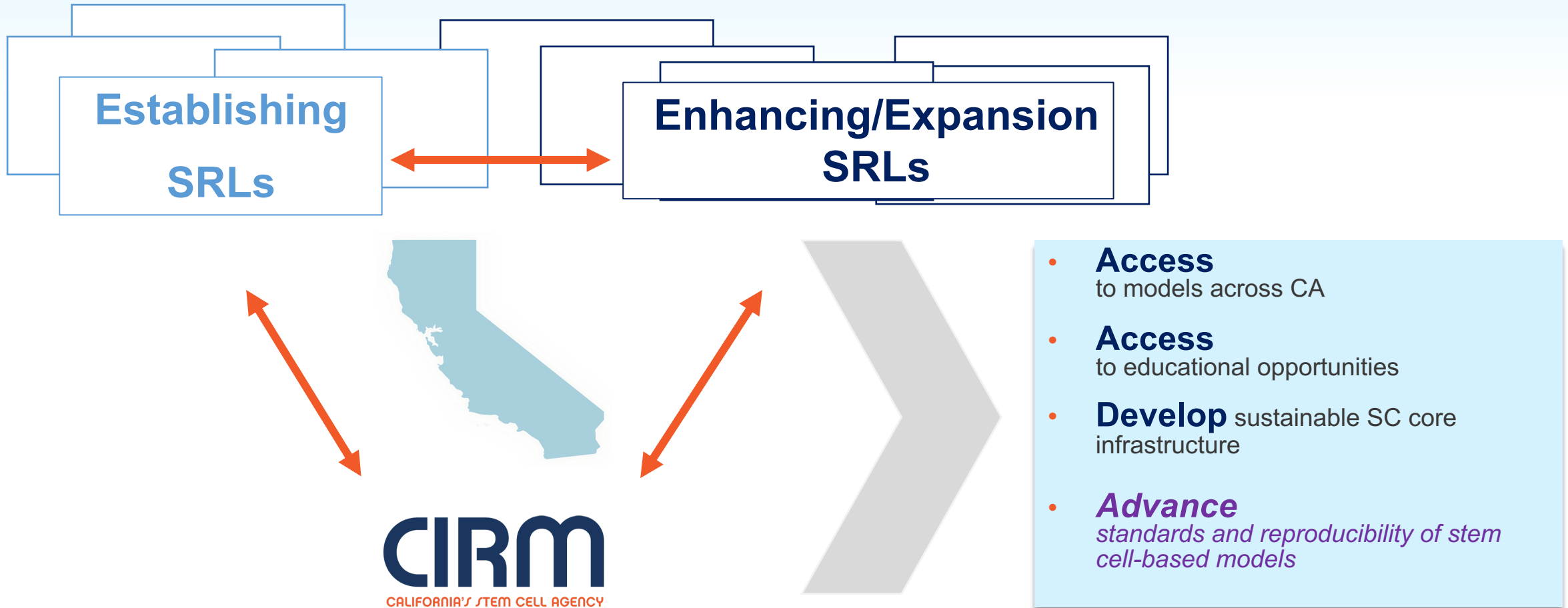
Part 1: INFR6 SRL Overview	1:00 - 1:40 PM
<ul style="list-style-type: none">• Goals, Eligibility Requirements• Budget, Activities• Application Components• Review Process and Criteria• Resources for Applicants	
Part 2: Q&A	1:40 - 2:00 PM

Goals
Eligibility requirements

OBJECTIVES

- **Broaden access** to stem cell-based **models** across CA
- Increase access to **educational opportunities** in stem cell-based techniques
- Develop **sustainable** stem cell core infrastructure

Shared Resources Labs – Network



Shared Resources Labs – Functions

OBJECTIVES

- Broaden access
- Educational opportunities
- Sustainability

- **Provide researchers, locally and regionally, access to:**
 - Cell culture facility to conduct stem cell-based modeling experiments
 - Highly specialized technologies
- **Provide researchers, locally and across California, access to:**
 - Well characterized unmodified and modified hPSC collections
 - Partially or fully differentiated stem cell-based models
 - Training of researchers
- **Provide educators, regionally and/or across California, access to:**
 - Formal techniques courses for student education (and researcher training)
 - Other student experiences with hands-on stem cell-based modeling
- **Implement sustainability plans:**
 - Fee for service, recharge
 - Alternative funding sources

Project Eligibility

- Modeling expertise offered in SRLs - Limited to **in vitro models using human stem or progenitor cells**

Institution Eligibility

- **California non-profit** research institutions
- **1 application per institution**

PD Eligibility

- Program Directors (applicant PD) must commit at least 5% effort
- Overall Leadership must commit at least a combined 20% effort
 - Applicant PD alone, or
 - Applicant PD plus 1 additional key person

Budget, Activities

Shared Resources Labs – 2 Types

RFA INFR6.1

RFA INFR6.2

	Establishing SRLs	Enhancing/Expansion SRLs
SRL Type - Description	Create access in geographic areas where access to models is limited	Share cutting-edge stem cell-based modeling expertise

Main cost categories

1. Renovation (*6.1 only*) & Equipment
2. Operations
3. Stem Cell Techniques Course (Optional)

Shared Resources Labs – Budget Caps

RFA INFR6.1

RFA INFR6.2

	Establishing SRLs	Enhancing/Expansion SRLs
SRL Type - Description	Create access in geographic areas where access to models is limited	Share cutting-edge stem cell-based modeling expertise
Award Duration	5 years	5 years
Award amount - total (with/without techniques course)	\$5.4 M / \$4.4 M	\$4.3 M / \$3.0 M
1. Renovation	\$2.75 M	--
1. Equipment		\$1.5 M
2. Operations	\$1.65 M	\$1.5 M *
3. Techniques Course (OPTIONAL)	\$ 1.0 M	\$ 1.3 M
Co-funding	Not Required	* Required (20% of operational costs)

RFA INFR6.1

RFA INFR6.2

Cost Category	Establishing SRLs	Enhancing/Expansion SRLs
	Create access in geographic areas where access to models is limited	Share cutting-edge stem cell-based modeling expertise
1. Renovation & Equipment	<ul style="list-style-type: none"> Renovate core space Acquisition of major equipment 	<ul style="list-style-type: none"> Acquisition of major equipment

Award Activities/Cost Category - Operations

RFA INFR6.1

RFA INFR6.2

Cost Category	Establishing SRLs	Enhancing/Expansion SRLs
	Create access in geographic areas where access to models is limited	Share cutting-edge stem cell-based modeling expertise
2. Operations	<ul style="list-style-type: none"> Establish models in core Maintain core Research Support * <ul style="list-style-type: none"> Access locally or remotely Specialized services Train researchers Educational Support * Participation in SRL Network activities 	<ul style="list-style-type: none"> Establish models in core Maintain Core Research Support <ul style="list-style-type: none"> Access locally and share broadly Specialized services Train researchers Participation in SRL Network activities

* Applicant determines emphasis

Award Activities/Cost Category - Course

RFA INFR6.1

RFA INFR6.2

Cost Category	Establishing SRLs	Enhancing/Expansion SRLs
	Create access in geographic areas where access to models is limited	Share cutting-edge stem cell-based modeling expertise
3. Stem Cell Techniques Course (<i>optional</i>)	<ul style="list-style-type: none"> • CIRM-funded EDUC programs • Other educational needs • Train researchers 	<ul style="list-style-type: none"> • CIRM-funded EDUC programs • Other educational needs • Train researchers

May distribute costs associated with **researcher training** into

- 2.** Operational costs
- 3.** Techniques course

What **activities** are **not** supported by INFR6?

- ✗ Conduct of independent research studies
 - ✗ research projects that make use of SRLs must be funded via other sources, which may include CIRM research awards.
- ✗ *INFR6.2: Renovation/facility improvements*
- ✗ Activities already budgeted or paid for under a prior, existing or future CIRM award

SRL Awards Phasing

		INFR6.1	INFR6.2
	Activities	E-SRLs	E/E-SRLs
Phase A	<ul style="list-style-type: none"> • <i>Renovation (6.1)</i>, equipping, staffing • Establishing Stem cell-based models • Establishing training and educational programs 	18 months	6 months
Phase B	<ul style="list-style-type: none"> • Operations - CIRM-supported 	24 months	30 months
Phase C	<ul style="list-style-type: none"> • Operations - tapered CIRM support ➤ implementation of long-term sustainability plan (half of average monthly Phase B operational costs) 	18 months	24 months

During Prefunding Administrative Review of funded applications, CIRM will work with awardees to adjust the timing of the phases, as needed.

Shared Resources Labs – Network



- **Access** to models across CA
- **Access** to educational opportunities
- **Develop** sustainable SC core infrastructure
- **Advance** standards and reproducibility of stem cell-based models

SRL Network Steering Committee

- Coordinated by CIRM
- SRL Program Directors (PDs) and other stakeholders
- Drive knowledge-sharing and standard-setting among funded SRLs and external partners
- Develop collaborative approaches toward improving reproducibility of stem cell-based models

Application Components

Choose intended application

Open Programs	
RFA and Programs Open For Applications	Actions
CLIN 1 CIRM Late Stage Preclinical Projects: CLIN1 Grant Application	Start a CLIN1 Grant Application
CLIN 2 CIRM Clinical Trial Stage Projects: CLIN2 Grant Application	Start a CLIN2 Grant Application
EDUC 1 CIRM Conference Awards II: EDUC1 Grant Application	Start a EDUC1 Grant Application
INFR 6.1 Shared Resources Laboratories (SRL) for Stem Cell-Based Modeling—Establishing SRLs: INFR6.1 Grant Application	Start a INFR6.1 Grant Application
INFR 6.2 Shared Resources Laboratories (SRL) for Stem Cell-Based Modeling—Expanding / Enhancing SRLs: INFR6.2 Grant Application	Start a INFR6.2 Grant Application
<p><i>The PI/PD of all applications/pre-applications/LOIs created here will be the person whose name is listed at the top of this page.</i></p> <p><i>You cannot use these links to create applications for any other PI/PD.</i></p>	

Application Components: Overview

Online Sections

INFR6.1-15374

Instructions	
Print View	
Eligibility	
Eligibility	Incomplete
Personnel	
PD and AOO	Incomplete
Key Personnel	Incomp (1)
Review Exclusions	0 Entries
Program	
Title and Summary	Incomplete
Public Information	Incomplete
Funding	
Consultants / Subcontracts / Service Contracts	Empty
Co-funders	Empty
Funds Calculator	Incomplete
Budget Justification	Incomplete
Uploads	
Document Uploads	Incomplete

INFR 6.1: Shared Resources Laboratories for Stem Cell-Based Modeling Establishing SRLs

This application is for the Establishing Shared Resource Laboratories (E-SRL) program ONLY. Please open a INFR6.2 application if you are interested in applying for the Expanding / Enhancing SRL (E/E-SRL) program.

The mission of the 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 SRL for Stem Cell-Based Modeling Awards Program represents one of several technology competency hubs programs envisioned in CIRM's 2022-2027 strategic plan. Together with a future Data Infrastructure, SRLs will broadly connect and empower California's regenerative medicine research ecosystem toward advancing world class science and therapeutic innovation.

The overall objective of this funding opportunity is to accelerate regenerative medicine research by creating a network of SRLs that will:

- (1) Broaden access to stem cell-based models across CA
- (2) Advance standards and reproducibility of stem cell-based models
- (3) Increase access to educational opportunities in stem cell-based techniques
- (4) Develop sustainable stem cell core infrastructure

Please refer to the [Funding Opportunities for Infrastructure](#) page and read through the [RFA \(INFR 6.1\)](#) carefully to ensure that you understand all the requirements for this opportunity before completing the application. Please consult the Appendix in the RFA for a side-by-side comparison of INFR6.1 and INFR6.2 opportunities. CIRM awards approved under this partnering opportunity are also subject to the [Grants Administration Policy for Facilities and Equipment Grants](#), [CIRM Grants Administration Policy for Discovery, Translation, and Education Projects](#), the [Intellectual Property and Revenue Sharing Requirements](#) as well as additional regulations that can be found [here](#). CIRM awards will be executed under the following template [Notice of Award](#).

To start the application process, you must first complete the Eligibility section, which will take you through each of the specific requirements and certify that you meet the requirements to apply. Once you have completed this section, you may then complete other parts of the application.

The application includes all the sections shown on the left navigation bar and the items required in the Upload section. Links to required templates are found in the Upload section. Only applications that are complete and meet the eligibility criteria as set forth in INFR6.1 will be accepted by CIRM.

Uploads Templates

Applications Due	Applications must be fully submitted by 2:00 PM PT, August 29, 2023.
Grants Working Group (GWG) Review	Approximately 60 days post submission.
Facilities Working Group (FWG) Review	Approximately 90 days post submission.
ICOC Review and Approval	Approximately 120 days post submission.
Award Start	Must start within 150 days of award approval

Application – Components

Completed **Online**

Eligibility, Personnel, Budget

Funds Calculator

Budget Justification

Uploads to online application

Required - *must use templates provided (found in Uploads Section)*

- *Proposal (Scientific, 6.1: Facilities)*
- *Biographical Sketches*
- *PD Other Support*
- *Budget Worksheet*

Required - *no template provided*

- *6.1: Renovation/Facility Improvements Documents*
- *Letters of Support*
- *Quotes and Other Budget Data*

Optional

- *IP Licenses and MTA*
- *Stem Cell Techniques Course Syllabus (if applicable)*

Application - SRL Budget

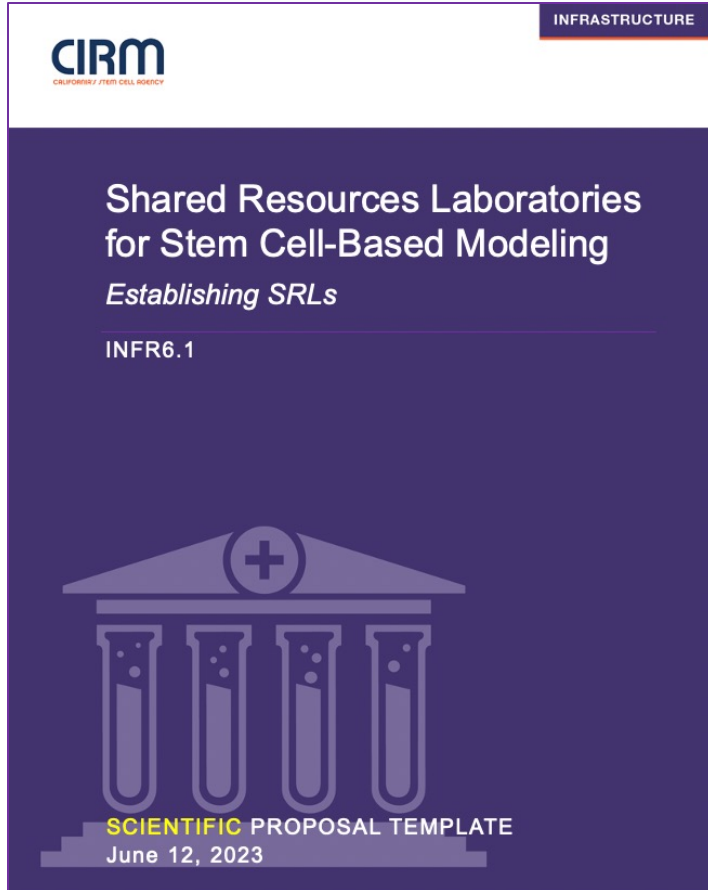
Cost Category	Budget Worksheet (Upload) Template tabs	
1. Renovate & equip	Renovations (6.1 only)	Added to Phase A
	Lab Equipment	
2. Operations	Phase A Oversee renovate/equip, expertise transfer	
	Phase B Operating the core	
	Phase C Operating the core at 50% CIRM funding	Half of average monthly Phase B operational costs
	Equipment Maintenance	Choose operations or equipment category
3. Course	Techniques Course (OPTIONAL)	Spans all Phases
	Total Request	➤ Funds Calculator - Online

Budget Justification (Online)
Quotes (Upload)

Application - Letters of Support

- Interested users of the SRL core
 - Researchers
 - Educators
- Collaboration
 - e.g., expert transferring expertise
- Institutional support
 - Confirming core space
 - Other commitments, if applicable
- *INFR6.2: documentation for required co-funding*
- Commitment of additional support, if any, from other sources
- Commitment of contingency funds and their source(s)

Application: Proposal Templates



- **Use** the required Word Template
- **Adhere** to prescribed page limits
- **Maintain** formatting (**preset fonts, margins**)
- **Follow Instructions** for each section
- **Convert to PDF** when finished to upload
- **Do not alter** margins, font size, etc.
- **Do not exceed** page limits
- **Do not** leave sections **incomplete**
- **Do not** use a **“DIY”** template

Application – Diversity, Equity, Inclusion

- Core users / recipients of stem cell-based models and expertise represent diverse goals, approaches, perspectives and backgrounds
- Participation in educational activities by diverse and/or underserved populations
- SRL team and other contributors
 - diverse and inclusive perspectives and experience
 - successful track record for promoting and valuing diversity, equity and inclusion.
- Offer stem cell lines with ancestral and sex diversity that may increase the applicability of research outcomes to diverse populations.

Knowledge Sharing Plan - capture & disseminate information

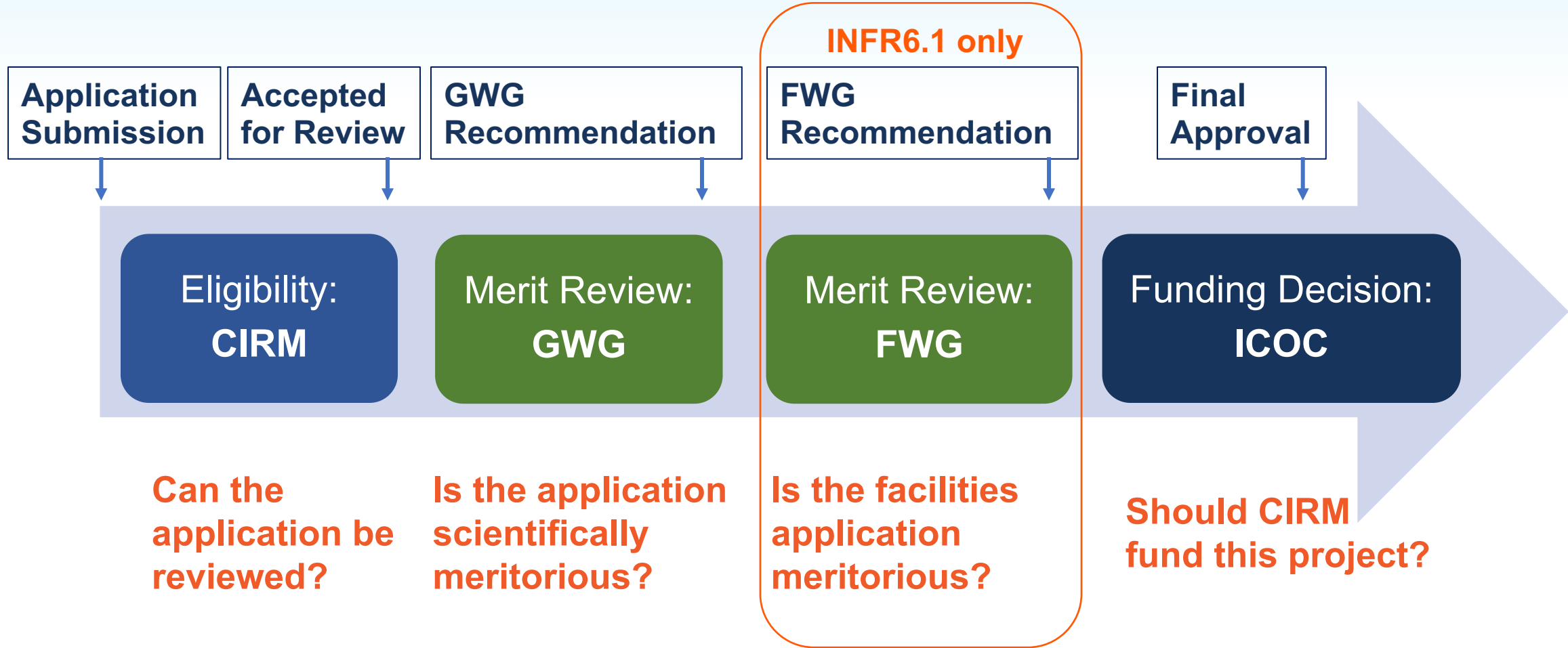
- Core offerings, sharing stem cell-based models
- Best practices, knowledge, resources

Data Sharing Plan - make data available to research community

- Raw data, processed data and metadata
- Produced during SRL operations for cell model quality control and validation
- omics, FACS, imaging and other data

Review Process and Criteria

Application Review Process



- 1) Does the proposed SRL offer a significant **value proposition**?
- 2) Is the project **well planned and designed**?
- 3) Is the project **feasible**?
- 4) If proposed, is the Stem Cell **Techniques Course** well designed?
- 5) Does the project effectively **uphold the principles of diversity, equity and inclusion**?

- 1) Does the proposed renovation/facilities improvement project **support the applicant's proposed SRL core** research and educational activities?
- 2) Are the SRL renovations/facility improvements **feasible** as proposed?
- 3) Does the proposed SRL facility include the **appropriate research equipment and laboratory configuration** in support of the proposed SRL activities?
- 4) Are the renovation/facility improvement **costs appropriate**?
- 5) Does the applicant ensure **diversity, equity and inclusion** goals for design and construction?

CIRM
CALIFORNIA'S STEM CELL AGENCY

California Institute for Regenerative Medicine

For Researchers ▾

For Patients ▾

Our Impact ▾

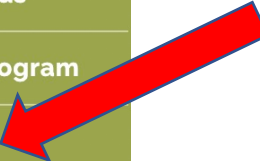
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FUNDING OPPORTUNITIES	GRANTS	CLINICAL RESOURCES	RESEARCH RESOURCES
Information for Applicants	Active Awards Portfolio Dashboard	CIRM Funded Clinical Trials	FAQs for CIRM Awards
All Funding Opportunities	CIRM Grants	Alpha Clinics	Industry Alliance Program
COVID-19	Managing Your Grant	Cell and Gene Therapy Center	iPSC Repository
Discovery	CIRM Grantees	Collaborative Funding Partnerships	Genomics Initiative
Translational	CIRM-Funded Institutions		CIRM Publications
Clinical	CIRM Funding Commitments		Grantee Publications
Infrastructure	Stem Cell Grant Regulations		Webinars and Workshops
Education			hESC Cell Lines
Previous Funding Opportunities			

Data Sharing and Management Plans



Programmatic Questions

ugrieshammer@cirm.ca.gov

Budgeting and Administrative Questions

grantsmanagement@cirm.ca.gov

Review Questions

review@cirm.ca.gov

Applications due August 29, 2023 @2PM PDT

Q & A