



# SIR Branch 17 – Santa Rosa Monthly Luncheon

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SIR Branch 17 - Santa Rosa  
February 16, 2022



## OUR MISSION

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



Proposition 71  
2004  
  
\$3B Bond  
Funding



Proposition 14  
2020  
  
\$5.5B Bond  
Funding

**2004**

CIRM created by patient advocates and California stakeholders-Proposition 71

**2020**

Secured additional funding Proposition 14 - **\$5.5B** committed to CIRM mission

**1100+**

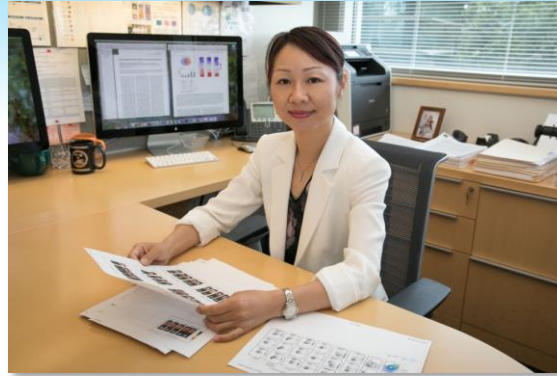
Cutting edge research & transformative programs funded

**86 Clinical Trials, 3200+ Patients Enrolled**

First in human, cell & gene medicine, some ready for final marketing approval

**\$23B**

CIRM-funded projects raised over \$23B in industry support



- Generated **3,100 peer-reviewed publications**
- Funded **12 stem cell research facilities and 17 shared research laboratories**
- Enabled **invention** of research and translational tools
- Built the **largest iPSC research bank with >2,600 cell lines** for modeling
- Created **novel genomic datasets and bioinformatics tools** for stem cell research



- Established **9 Alpha Stem Cell Clinics** that have accelerated execution of 100+ stem cell clinical trials
- Attained **Expedited Pathway Designation** from FDA: **15% of total RMATs**
- Supported **progression of 86 programs into therapy development** via successive CIRM awards
- Accelerated **73% of funded IND-enabling programs** to initiate clinical trials within 2 years



- Trained **over 3,000 students and scholars** to become the future workforce of regenerative medicine
- Stimulated the CA economy with **\$10.7B of gross output and 56,000 new FTE jobs** created during the 2004-2018 period

**\$3.6B in total grants to date**



DISCOVERY

**\$1.1B \$503M**



TRANSLATION

**\$75M\* \$77M \$147M\***



CLINICAL

**\$1.1B \$430M**

**\$190M**



EDUCATION

**\$489M**

**\$3M**

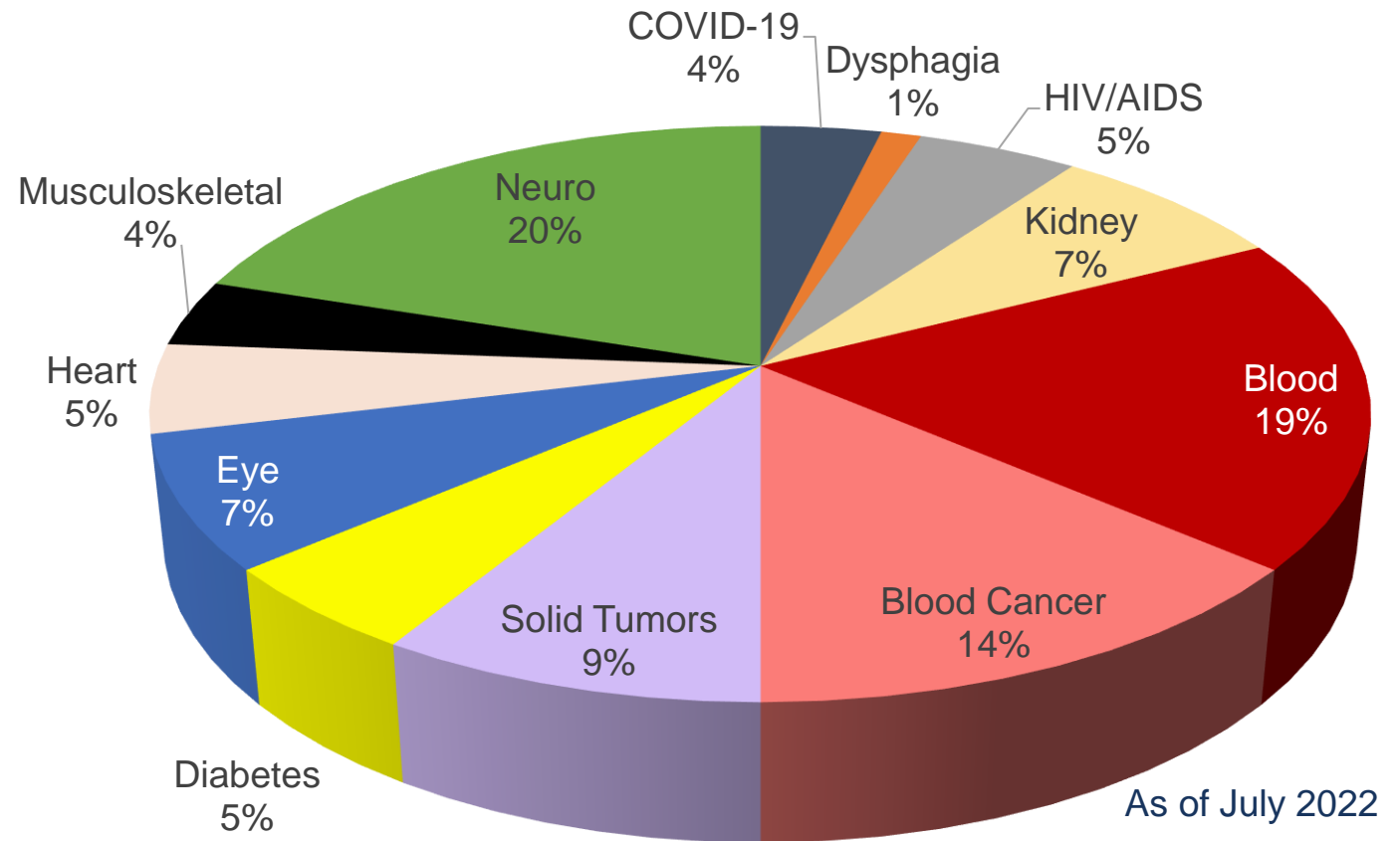


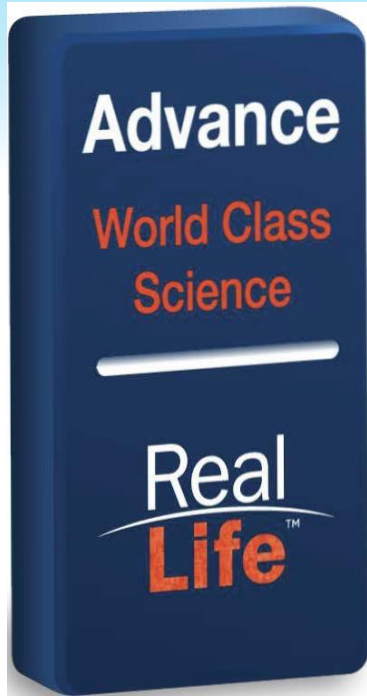
INFRASTRUCTURE

**Prop 14 Era**



**86 Clinical Trials** funded through December 2022  
in a Wide Variety of Diseases and Disorders  
Different Approaches





- Develop shared resources
- 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

# Alpha Clinics Network: Making Clinical Trials Accessible to Many



- \$40M investment in patient-centered care and training (additional \$80M budgeted for 2023)
- Successfully accelerating cell and gene-therapy clinical trials
- Over 105 trials supported since 2015
  - 82 from industry sponsors
  - 23 CIRM-funded industry and academic sponsors
- Over \$100M in industry-contracts

# In Development: Increase Access & Engage the Community



Expand Alpha  
Clinics  
Network

Enable Innovative  
Clinical Research

Increase Patient Access  
to Therapies

Train Future Workforce



Equip Community Care  
Centers to serve the  
needs of the community  
as identified by the com-  
munity



**Active**  
Rekurs quarterly

**Currently closed**

| Program       | Funding Limit                | Duration | Scope                                  |
|---------------|------------------------------|----------|--|
| <b>EDUC 1</b> | \$2M <u>total</u> biannually | N/A      | Conferences                            |
| <b>EDUC 2</b> | \$3.6M/Award                 | 5 years  | Bridges<br>(Undergraduate/<br>Masters) |
| <b>EDUC 3</b> | \$509K/Award                 | 5 years  | Spark<br>(High school)                 |
| <b>EDUC 4</b> | \$5M/Award                   | 5 years  | Scholars<br>(Graduate/Post-Doc)        |
| <b>EDUC 5</b> | \$2.91M/Award                | 5 years  | Compass<br>(Undergraduate)             |

EDUC 2,3, 4, 5 are awarded to institutions for training



## *Extending and Updating Successful EDUC Programs*

SPARK/EDUC3



HIGH SCHOOL

530 trained/10 summers



Bridges/EDUC2



UNDERGRAD/MASTERS

1600 trained/12 years



Research Training/EDUC4



PRE/POSTDOCTORAL  
and MD

940 trained/9 years



## Objectives

- Prepare a **diverse cadre of undergraduate students** for careers in regenerative medicine
- Create **novel recruitment and support mechanisms that identify and foster untapped talent** within populations that **are historically under-represented** in the biomedical sciences
- **Combine hands-on research opportunities** with strategic and structured **mentorship** experiences
- **Foster greater awareness and appreciation of diversity, equity and inclusion** in trainees, mentors, and other program participants

## COMPASS



UNDERGRAD

\*Creating Opportunities through Mentorship and Partnership Across Stem cell Science





**Thank You!**

Please visit us at:  
[www.cirm.ca.gov](http://www.cirm.ca.gov)

