

# YES on 71

the CALIFORNIA  
**STEM CELL  
RESEARCH  
& CURES**  
INITIATIVE



**November 2, 2004  
Election**

# Our Discussion Today

- The Potential of Stem Cell Research
- The Problem
- The Solution
- A Call to Action

# The Potential



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# Opportunity To Turn Hope For Cures Into Reality

- Stem cells are “unspecialized” cells that can generate healthy new cells and tissues
- They have the potential to provide cures for many currently incurable diseases and injuries, including:

Cancer

HIV/AIDS

ALS

Alzheimer’s Disease

Autism

Multiple Sclerosis

Cystic Fibrosis

Diabetes

Heart Disease

Osteoporosis

Parkinson’s Disease

Sickle Cell Disease

Spinal Cord Injuries

Severe Burns

Some stem cell therapies are already being used, such as in bone marrow transplants to treat leukemia

# Lives of Millions of Children and Adults are at Stake

- **128 million** Americans – including millions of Californians – suffer from diseases and injuries that could be treated or cured with stem cell therapies
- These devastating medical problems affect a child or adult in nearly **half of all families**
- They also generate **hundreds of billions of dollars** in health care costs annually

# U.S. Disease & Injury Statistics

Condition	Number of persons affected
Cardiovascular diseases	58 million
Autoimmune diseases	30 million
Diabetes	16 million
Osteoporosis	10 million
Cancer	8.2 million
Alzheimer's disease	4 million
Parkinson's disease	1.5 million
Burns (severe)	0.3 million
Spinal cord injuries	0.25 million
Birth defects	150,000 (per year)
Total	128.4 million

Dan Perry, Executive Director of CAMR.  
*Science* (2000) **287**: 1423.

# The New Frontier in Medicine...

- Most medical experts view stem cell research as the new frontier in medicine, a huge breakthrough that could save millions of lives – if adequate funding is made available to conduct needed research

**...a Real Potential for Cures**

# Examples of Potential Treatments

- Type I Diabetes
  - Restore normal blood sugar by replacing pancreatic cells.
- Burn Treatment
  - Regenerate functional skin following severe burns.
- Heart Disease
  - Restore damaged regions of the heart and cardiovascular system.
- Alzheimer's & Other Neurological Diseases
  - Regenerate neural cells and restore communication between brain and body, to alleviate symptoms of Alzheimer's, ALS, multiple sclerosis & Parkinson's.
- Spinal Injuries
  - Restore function to damaged spinal cords (recently successful in tests with paralyzed rats, which regained the ability to walk).



# The Problem



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# A Critical Funding Gap Exists

- Currently, there is ***no state level funding*** for stem cell research
- ***Political roadblocks have severely limited federal funding*** for some of the most promising types of stem cell research

# The Solution

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# Prop 71

## The California Stem Cell Research and Cures Initiative

- Scheduled for November 2, 2004 statewide ballot – after over 1 million voters signed petitions
- Prop 71 closes the funding gap by authorizing tax-free state bonds to support stem cell research at California's medical research facilities
- Establishes California Institute For Regenerative Medicine to oversee and facilitate research grants

# Protects Taxpayers & State Budget

- Uses low-interest, tax-free bond funds to support stem cell research:
  - Authorizes an average of \$295 million per year over a 10-year period for research at California institutions
  - Amounts to approximately  $\frac{1}{2}$  of 1% of the state's bonds currently authorized and outstanding
  - Bonds are self-financing during the first five years, so there's no cost to the state's general fund
    - Protects our budget during economic recovery
- Won't increase or create any new taxes

## **Benefits Our Economy & State Budget**

- Will make California a world leader in stem cell research.
- Will create thousands of new, good paying jobs and boost our economy – generating millions in new state tax revenues
- Will give the State an opportunity to share in royalties resulting from the research – which could generate millions in additional state revenues for decades to come

# Reduces CA Healthcare Costs

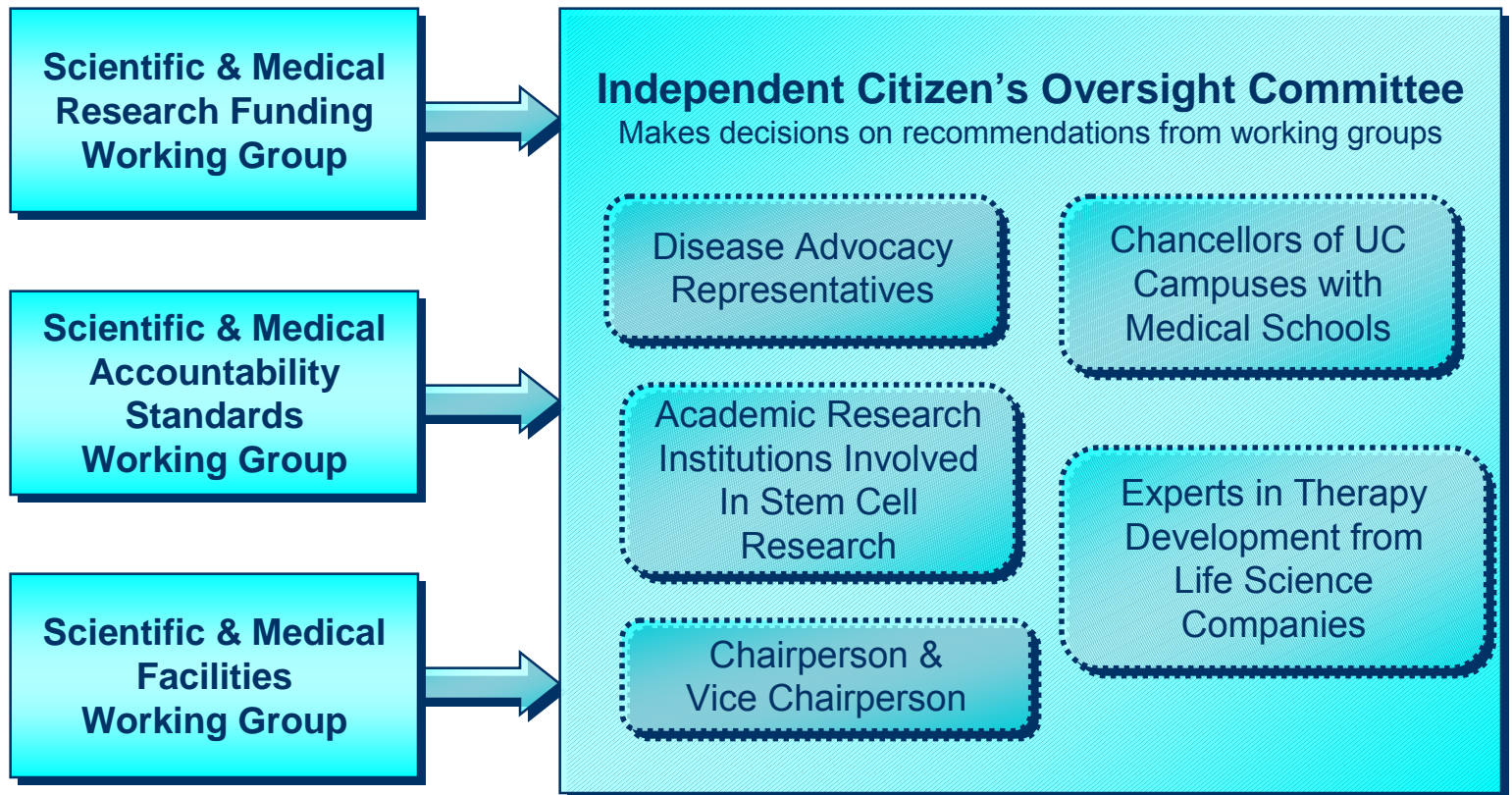
- California has the highest health care costs in the nation – over \$112 billion per year
  - A huge share of those costs is caused by diseases and injuries that could be cured with stem cell therapies.
- By leading to cures that reduce California health care costs by just 1%, the Initiative would save \$1 billion annually and pay for itself within a few years
- The potential savings could be far greater – possibly reducing our health care costs by tens of billions of dollars in the decades ahead

# Requires Fiscal & Public Accountability

- Ensures bond funds are used properly and effectively
  - Requires independent audits, open meetings, public hearings and annual reports to the public
- Gets politics out of medical research
  - Research grants based on the potential for cures, with guidance from top medical experts and representatives of disease advocacy groups



# Broad Participation In Governance



# Creates Strict Ethical Guidelines

- Includes strict provisions to protect patient rights, safety and privacy
- Specifically prohibits any funding for human reproductive cloning
  - Reinforces current prohibition on reproductive cloning in current state law

# Supported by a Broad Coalition

- Patient and disease advocacy groups
- Leading medical and health care groups, like the California Medical Association (representing 35,000 California doctors)
- Leading scientists and medical researchers – including 21 Nobel Prize winning scientists

# Organizational Endorsements

(Partial List)

- Alzheimer's Association, California Council
- American Diabetes Association
- American Nurses Association of California
- American Parkinson's Disease Association, LA
- The Burnham Institute
- California Hepatitis C Task Force
- California Medical Association
- Cancer Research and Prevention Foundation
- Cedars-Sinai Health System
- Children's Neurobiological Solutions
- Christopher Reeve Paralysis Foundation
- Coalition for the Advancement of Medical Research
- Congress of California Seniors
- Cure Autism Now
- Cystic Fibrosis Research, Inc.
- Elizabeth Glaser Pediatric AIDS Foundation
- Gray Panthers
- California Hereditary Disease Foundation
- Juvenile Diabetes Research Foundation
- California Hereditary Disease Foundation
- Juvenile Diabetes Research Foundation
- Juvenile Diabetes Research Foundation
- Late Onset Tay-Sachs Foundation
- Los Angeles Area Chamber of Commerce
- Michael J. Fox Foundation for Parkinson's Research
- National Brain Tumor Foundation
- National Coalition of Hispanic Organizations
- National Coalition for Cancer Research (NCCR)
- The Neuropathy Association
- Paralysis Project of America
- Parkinson's Action Network
- Project ALS
- Prostate Cancer Foundation
- San Francisco Board of Supervisors
- San Jose Silicon Valley Chamber of Commerce
- Sickle Cell Disease Foundation of California
- Women's Cancer Research Fund

# Nobel Laureate Scientists

## (Partial List)

- David Baltimore, PhD (1975)
  - President, California Institute of Technology
- Paul Berg, PhD (1980)
  - Professor of Cancer Research Emeritus, Director Emeritus Beckman Center, Stanford University
- J. Michael Bishop, MD (1989)
  - University Professor and Director, G.W. Hooper Foundation, Chancellor, UCSF
- Paul D. Boyer, PhD (1997)
  - Professor Emeritus of Biochemistry, UCLA
- Sydney Brenner, PhD (2002)
  - Distinguished Professor, Salk Institute for Biological Sciences
- Renato Dulbecco, MD (1975)
  - Distinguished Professor and President Emeritus, Salk Institute for Biological Science
- Walter Gilbert, PhD (1980)
  - Professor of Cellular and Molecular Biology, Harvard University
- Donald Glaser, PhD (1960)
  - Professor of Physics and Neurobiology, UC Berkeley
- Joseph L. Goldstein, MD (1985)
  - Regental Professor, University of Texas, Southwestern Medical Center
- Roger Guillemin, MD, PhD (1977)
  - Distinguished Professor, Salk Institute for Biological Sciences
- Leland H. Hartwell, PhD (2001)
  - President & Director, Fred Hutchinson Cancer Research Center
- H. Robert Horvitz, PhD (2002)
  - Professor of Biology, MIT
- David Hubel, MD (1981)
  - Research Professor of Neurobiology, Harvard University
- Eric R. Kandel, MD (2000)
  - Professor & Director, Institute for Brain Sciences, Columbia University
- Arthur Kornberg, MD (1959)
  - Emeritus Pfeiffer Merner Professor of Biochemistry, Stanford University
- Paul Nurse (2001)
  - President, Rockefeller University
- George A. Olah, PhD (1994)
  - Donald P. & Katherine B. Loker Distinguished Professor of Organic Chemistry, USC
- George Palade, MD (1974)
  - Professor of Cellular and Molecular Medicine, UCSD School of Medicine
- Stanley B. Prusiner, MD (1997)
  - Professor of Neurology, UCSF
- Susumu Tonegawa, PhD (1987)
  - Director, Picower Center for Learning & Memory, MIT
- Harold E. Varmus, MD (1989)
  - President & CEO, Memorial Sloan-Kettering Cancer Center, Former Director, National Institutes of Health (1993-1999)

# A Call to Action



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# Time is of the Essence

- 128 million Americans suffer every day from diseases that could be cured with stem cell therapies
- The goal of aggressively pursuing all types of stem cell research is strongly supported by the overwhelming majority of scientists, medical experts and disease advocacy groups – as well as by notable supporters from across the political spectrum
- "Science has presented us with a hope called stem cell research...I just don't see how we can turn our back on this."
  - Former First Lady Nancy Reagan
  - May 8, 2004

# Help Us Turn Hope into Reality

- The medical legacy of previous generations: cures for diseases like polio and smallpox
- Prop 71 can make our legacy cures for diseases that still cause millions of children and adults to suffer and die each year
- You can help make it happen:
  - Sign up as a member of our coalition
  - Talk to your friends and neighbors
  - Make a donation to support our campaign
  - Vote YES on November 2nd



## Contact Us

YES on 71: Coalition for Stem Cell  
Research and Cures

(800) 931-CURE

[www.YESon71.com](http://www.YESon71.com)

**YES on 71**



**Vote YES...to  
Save Lives and  
Reduce Health  
Care Costs**