

THE STEM CELL MEETING ON THE MESA

Presented by
The San Diego Consortium for Regenerative Medicine



BURNHAM INSTITUTE
for MEDICAL RESEARCH
From Research, the Power to Cure



SALK INSTITUTE
FOR BIOLOGICAL STUDIES



UC San Diego



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AGENDA

The Salk Institute for Biological Studies Frederic de Hoffmann Auditorium

- 8:00 a.m. Registration and Networking** – Auditorium Foyer
Continental Breakfast
- 9:00 a.m. Welcome** – Auditorium
Larry Goldstein, UC San Diego - Brief overview of the landscape - scientific, financial, business and political challenges
- 9:15 a.m. Panel 1 – Basic Science - Recent scientific progress and ideas**
- Chair:** Larry Goldstein, UC San Diego
Panel: Leanne Jones, The Salk Institute
Alexey Terskikh, The Burnham Institute
Ann Foley, The Burnham Institute
Scott Stewart, The Salk Institute
Catriona Jamieson, UC San Diego
- 10:30 a.m. Break**
- 10:45 a.m. Panel 2 – Technologies - New methods and advances in technology**
- Chair:** Evan Snyder, The Burnham Institute
Panel: Karl Willert, UC San Diego
Wen Xiong, The Scripps Research Institute
Alysson Muotri, The Salk Institute
Mahendra Rao, Invitrogen
Mark Ellisman, UC San Diego
Jeff Price, The Burnham Institute
- 12:00 p.m. Lunch & Poster Session** – Auditorium Foyer
- 1:00 p.m. Roundtable Discussion on community issues, and updates on the SDCRM and the CIRM** – Auditorium
- Chair:** Roger Bingham, The Science Network
Panel: Malin Burnham, The Burnham Companies
John Moores, UCSD Moores Cancer Center
Robert Klein, California Institute for Regenerative Medicine
Zach Hall, California Institute for Regenerative Medicine
Richard Lerner, The Scripps Research Institute
Sen. Christine Kehoe, California State Senate

AGENDA

The Salk Institute for Biological Studies
Frederic de Hoffmann Auditorium

[Continued]

2:00 p.m. **Panel 3 - Clinical and Ethical Perspectives** - After the basic science, what then? A guide to practical clinical applications & the ethical issues they raise

Chair: Michael Kalichman, UC San Diego

Panel: Mary Devereaux, UC San Diego
Barbara Bigby, Scripps Office for the Protection of Research Subjects
David Smotrich, La Jolla IVF

3:15 p.m. Break

3:30 p.m. **Panel 4 - The San Diego Perspective: The Business of Stem Cells and Start-Ups** - The types of diseases being examined for stem cell therapies and the long term challenges of bringing them to market. Why is work in this field so important to San Diego as a center of innovation?

Chair: Joydeep Goswami, Invitrogen

Panel: Alan Lewis, Novocell, Inc.
Joe Panetta, BIOCOM
Mark Saad, Cytori Therapeutics
Zuzana Hostomska, Pfizer, Inc.

4:45 p.m. **Poster Session & Networking Cocktail Reception**
- Auditorium Foyer

6:30 p.m. **Program Closes**

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Invitrogen Corporation provides products and services that support academic and government research institutions and pharmaceutical and biotech companies worldwide in their efforts to improve the human condition. The company provides essential life science technologies for disease research, drug discovery, and commercial bioproduction. Invitrogen's own research and development efforts are focused on breakthrough innovation in all major areas of biological discovery including functional genomics, proteomics and cell biology, as well as emerging fields such as stem cell science -- placing Invitrogen's products in nearly every major laboratory in the world. Founded in 1987, Invitrogen is headquartered in Carlsbad, California, and conducts business in more than 70 countries around the world. The company globally employs approximately 4,800 professionals and had revenues of more than \$1.2 billion in 2005. For more information, visit www.invitrogen.com or www.invitrogen.com/stemcell

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Carrier Johnson is an award-winning architecture and interiors firm dedicated to the enhancement of the public realm through architecture of personal experience — connected to its surroundings, synthesizing purpose and art, and delivering enduring civic and social value.

Through an interactive design process, we explore the web of connections that exist between a project and its environmental context — social, physical, historical, aesthetic — to reveal the opportunities that lie within. The emphasis placed on context focuses our design thinking on the experiential aspects of a space and the spirit it evokes in the people who use it.

Results of this philosophy can be seen in the firm's dynamic buildings and spaces throughout the United States. In San Diego, the firm has played a key role in the revitalization of downtown with prominent projects such as the urban in-fill mixed-use Bridgeworks Hilton Gaslamp Hotel, the Hard Rock Hotel San Diego, and 655 Broadway, the first high-rise office tower to be completed downtown in a decade.

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Organized in 1973, Johnson & Johnson Development Corporation (JJDC) is the venture capital subsidiary of Johnson & Johnson. JJDC makes private equity investments in venture funded health care companies. Portfolio companies include those in the fields of pharmaceuticals, biotechnology, medical devices, diagnostics and consumer products. JJDC also leads and manages internal investments in selected promising technologies.

JJDC invests in new businesses that offer new technology platforms and products that will help accelerate Johnson & Johnson growth.

JJDC is strategically aligned with its internal customers - the Johnson & Johnson Operating Groups, Companies and the Executive Committee - and also provides an independent view of growth opportunities. JJDC is also a valued partner to its external customers, the entrepreneurs, their companies and the venture capital community, with whom it collaborates.

JJDC cultivates a culture of teamwork and strategic partnership in a diverse, energetic environment that promotes "thinking outside the box" and constructive risk taking as a complement to the more structured and risk mitigation philosophy typically found in the operating company environment.

Presenter Dinner Sponsor

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Latham & Watkins is one of the world's largest and most respected full-service law firms, with a global network of more than 1800 lawyers in 22 global locations. With over 100 attorneys in two San Diego locations, we stand ready to address the entire spectrum of life science, pharmaceutical and biotechnology issues for start-ups to multinational conglomerates, as well as the investment banks and venture capital firms that serve them.

Our services include: Raising Capital, Mergers & Acquisitions, Protecting Intellectual Property, Strategic Partnership & Licensing Agreements and Complex Litigation.

Latham's expertise and connections are critical to your company's growth - offering global solutions to your complex business and legal issues.

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Cocktail Reception Sponsor

Rebecca & John Moores

John Moores grew up in Texas and attended public schools there. After high school he married his high school sweetheart, Becky, and worked full-time as a computer programmer to support his young family. He has no formal education in computers or software development; he gained all of his knowledge and expertise on the job. He and his wife attended the University of Houston at night, and each received two degrees from that university.

In 1980, Moores founded BMC Software, Inc. as its sole shareholder and first programmer. He wrote the initial, highly successful software products at BMC and built BMC into a significant competitor in the computer software industry. Moores continues to be active in providing his creative talents for the development of computer software for many new start-up software companies.

In 1994, Moores purchased the San Diego Padres Baseball Club. Since his purchase of the team, the Padres have won two National League Western Division championships and one National League championship. Moores serves on Major League Baseball's Executive Council and on the board of directors of Major League Baseball Advanced Media.

Moores' professional life is complemented by his extensive humanitarian work. He has given much of his time and own personal wealth to a wide variety of causes around the globe. He also has become a major contributor to San Diego's sports, civic, cultural and educational communities. Moores currently serves on the boards of a number of institutions that are important to San Diego, including the University of California Board of Regents (Chairman, 2002-2004), The Scripps Research Institute (Chairman), UCSD Foundation, Campanile Foundation of San Diego State University and the San Diego Hall of Champions Advisory Board.

As Chairman of The Carter Center, Moores succeeded President Carter and is carrying on the work that touches the lives of people in more than 65 countries, primarily in the poorest countries in sub-Saharan Africa, through its disease intervention, election monitoring, agriculture, public health training, mental illness advocacy, and civil and international conflict prevention programs.

Supporting Sponsors [continued]

Webcast Sponsor



THE WAITT FAMILY FOUNDATION

HELPING GOOD PEOPLE
DO GREAT THINGS

The Waitt Family Foundation is a charitable organization based in La Jolla, CA. The Foundation makes grants to programs that help us understand our past, improve the present, and prepare for the future. The Foundation funds partnerships and projects that seek a deeper understanding of human history, expand the potential of the human mind, and improve mankind's knowledge through historical and scientific exploration.

The Foundation was established in 1993 by Ted and Joan Waitt as a vehicle for "helping good people do great things." Both Ted and Joan grew up in close-knit families with strong ties to their communities. They credit much of their success and good fortune in life to the values they learned at home. The Foundation was originally based in North Sioux City, South Dakota, where the Waitt family has a 100-year history of community involvement and leadership shared by Ted's father and grandfather. It was here that the Waitt family, over the course of four generations, acquired time-tested core values of respect for family, concern for community, and commitment to hard work. Since 1999, the Foundation's main office has been located in La Jolla, California.

The Stem Cell Consortium for Regenerative Medicine

In a March 17 ceremony, The Burnham Institute for Medical Research, the Salk Institute for Biological Studies, The Scripps Research Institute and the University of California, San Diego joined together to sign an agreement to pursue formal negotiations toward the establishment and operation of an entity to be called the San Diego Consortium for Regenerative Medicine.

This historic alliance would marshal the intellectual resources of four world-leaders in life sciences research, bringing scientists from each institution together to develop and conduct joint research and training programs in one of today's most promising areas of science. Regenerative medicine references the ability of stem cells to proliferate and become specific cell types, giving them the therapeutic potential for repairing and replacing tissue damaged by disease or injury. The objectives of the San Diego Consortium for Regenerative Medicine include establishing a jointly operated facility dedicated to stem cell research and pursuing funding to support these collaborative projects.

By forming this Consortium, the partner institutions will unite in developing programs that build on the extraordinary strengths of the participants, creating a 'super-collaboration' in an emerging area of research that has the potential to lead to greater understanding of disease and, ultimately, to new therapies.

Serious discussions toward forming the Consortium began as a result of the 2004 passage of the California Stem Cell Research and Cures Initiative (Proposition 71) which led to the formation of the California Institute for Regenerative Medicine (CIRM). The initiative allocated \$3 billion in state funds to be managed by CIRM to support stem cell research in California. Up to \$300 million of this funding can be allocated to build or lease facilities to house this research. Dissemination of funds has been prevented by lawsuits challenging the initiative, but major research centers throughout the state are gearing up to participate in this endeavor when the legal issues have been resolved.

San Diego is one of the most concentrated research and biotechnology clusters in the country, with a critical mass of resources located within a few square miles. This historic partnership will further position San Diego as an international hub for biomedical research and discovery leading to the development of new therapies and diagnostic and treatment technologies.

Over the next few months, the definitive details of the Consortium will be finalized among the four institutions. When a four-party agreement to create the Consortium is finalized, it will be presented for review and approval to the institutions' respective boards.

BIOCOM

BIOCOM is the largest regional life science industry association in the world, representing more than 500 members. To ensure San Diego's continued success, we focus on initiatives that positively influence the growth and success of the life science industry—including capital formation, public policy, workforce development, and scientific discovery and development. The association acts as a news and information hub for the entire biocommunity in San Diego, and creates cost-saving member services such as the Purchasing Group.

Our membership includes industry companies pioneering new biopharmaceutical technologies, medical devices and diagnostics; the presence and commitment of the world's most successful Big Pharma companies; top research and academic institutions of the world—The Burnham Institute, The Salk Institute, The Scripps Research Institute, and U.C. San Diego; and leading service providers in the areas of intellectual property, workforce development, marketing, information technology, clinical and regulatory management, facility/environmental engineering, finance, etc.

BIOCOM's membership and San Diego's life science cluster creates an ecosystem of innovation—an environment conducive for life science companies accelerating their success in bringing life saving products to patients. With the proximity of many of San Diego's life science companies within 10 minutes of each other, San Diego is the most highly concentrated life science cluster in the U.S., and provides a unique collaborative environment.

San Diego boasts the most R&D assets¹ of all other metropolitan areas, approximately 39,000 life science jobs², and more than 300 products in preclinical or clinical development. This region has the highest concentration of Nobel Laureates and the highest number of Ph.D's per capita.

For more information about BIOCOM please visit our website at www.biocom.org.

1 San Diego Chamber of Commerce

2 Milken Institute Report, 2004

Partners [continued]



CONNECT is a non-profit organization dedicated to creating and sustaining the growth of innovative technology and life science businesses in San Diego. Since 1985, CONNECT has assisted in the formation and development of over 1,000 companies and is widely regarded as the nation's most successful regional program linking inventors and entrepreneurs with the resources they need for success.

CONNECT programs are targeted toward inventors and entrepreneurs and are delivered with the assistance of its broad membership base in three major areas: new company creation, training and education, and recognition of the best in innovation.

Originally founded by the University of California, San Diego, CONNECT has a dual role in accelerating growth: it provides added value and delivers targeted, high-level expertise to San Diego's technology business community by teaming up with the region's most prominent industry-specific organizations and individuals, and by partnering with world-class UC San Diego resources, such as the School of Medicine, Jacobs School of Engineering, San Diego Super Computer Center, and the Scripps Research and Salk Institutes.

Please visit www.connect.org for further information about CONNECT's mission, programs and events.

Partners [continued]



Imagine turning on your television—any time of day or night—and watching a heated debate about the impact of science on your life: from stem cell research and cloning to the use of genetically modified organisms (GMOs) in your food. From the biology of violence to the chemistry of addiction. From the puzzles of depression to the latest breakthroughs on aging. From the evolution of morality to the complexities of consciousness. From the exploration of space to the discovery of life beyond Earth.

Imagine eavesdropping on scientific meetings and Congressional hearings—getting the background buzz about science and its impact on social issues from education, ethics, and economics to law, psychology and religion.

Imagine a network that delivered the latest lecture by Stephen Hawking on the nature of time or by Jane Goodall on the chimpanzees of Gombe. Or archived footage of the late Richard Feynman mesmerizing an audience with his Nobel-wattage intellect and irreverent humor. Perhaps you would find yourself in the midst of a marathon reprise of landmark television series like Carl Sagan's *Cosmos* or Jacob Bronowski's *The Ascent of Man*, rescued from retirement. Maybe a showing of *Life Story*, the dramatization of James Watson and Francis Crick's discovery of the double helix of DNA—or a *Nova* marathon. You might be taken into classrooms where America's star science teachers hold young minds spellbound with tales of our continuing odyssey to make sense of the natural world.

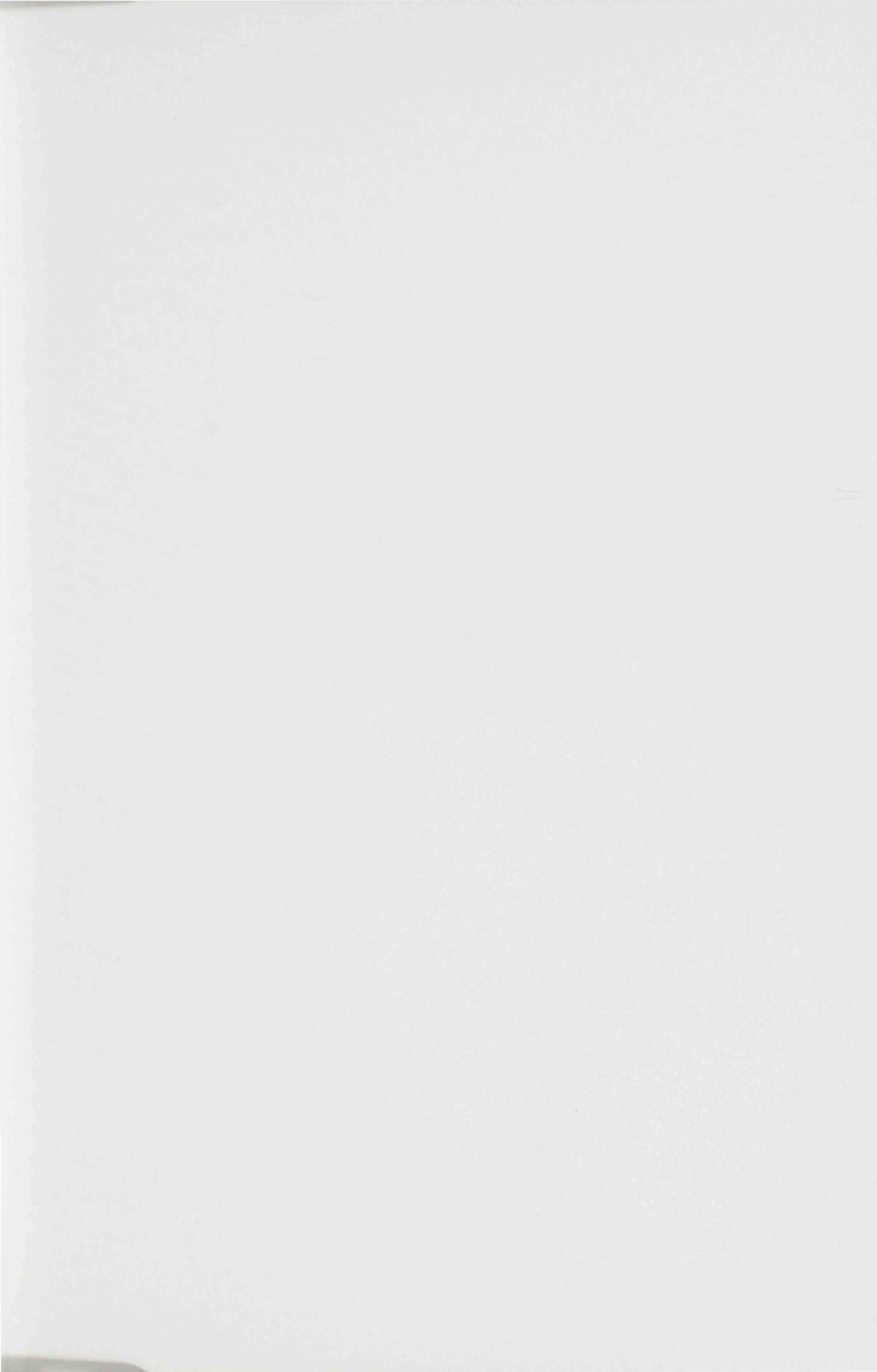
Put it all together and you have The Science Network (TSN). A C-SPAN for science. Visit www.csntv.org for further information.

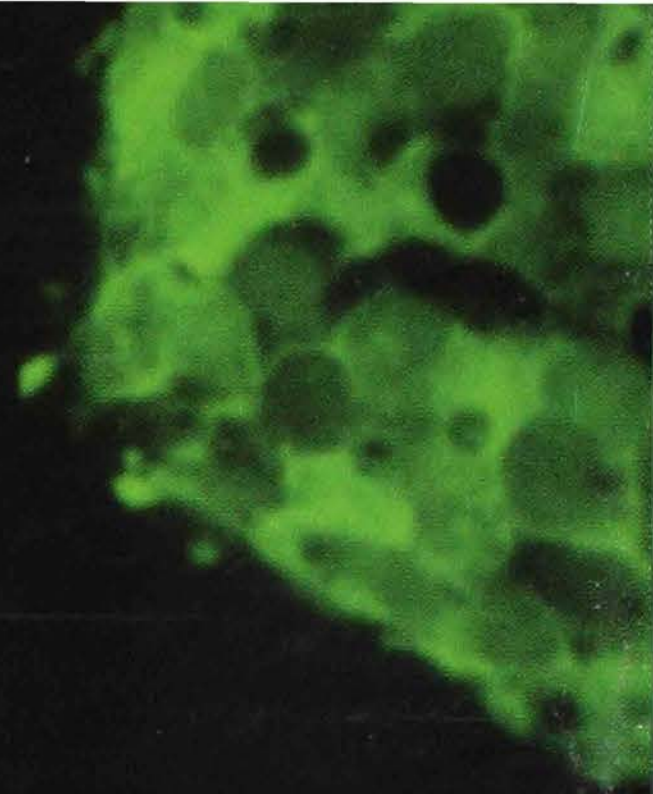
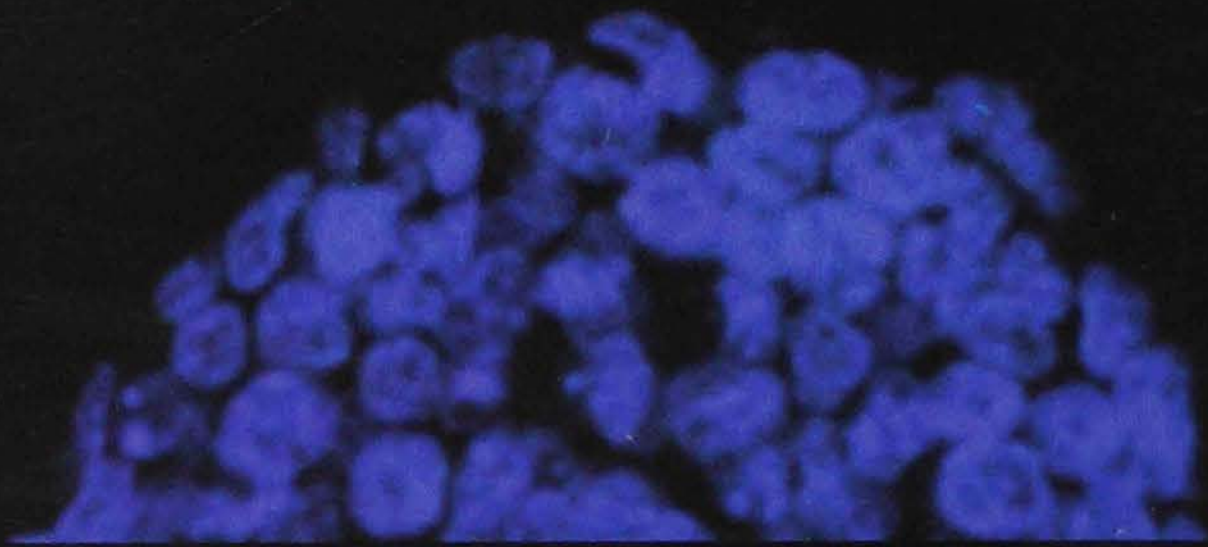
STEM CELL MEETING ON THE MESA COMMITTEE

Thank you to the members of the Organizing Committee:

Committee Members

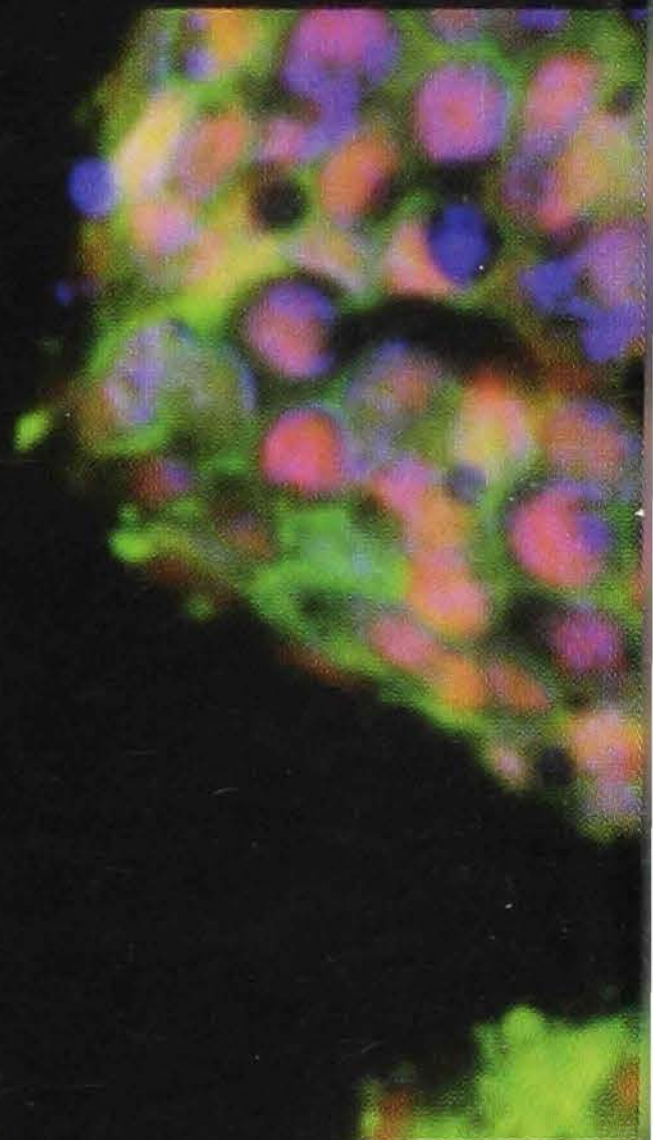
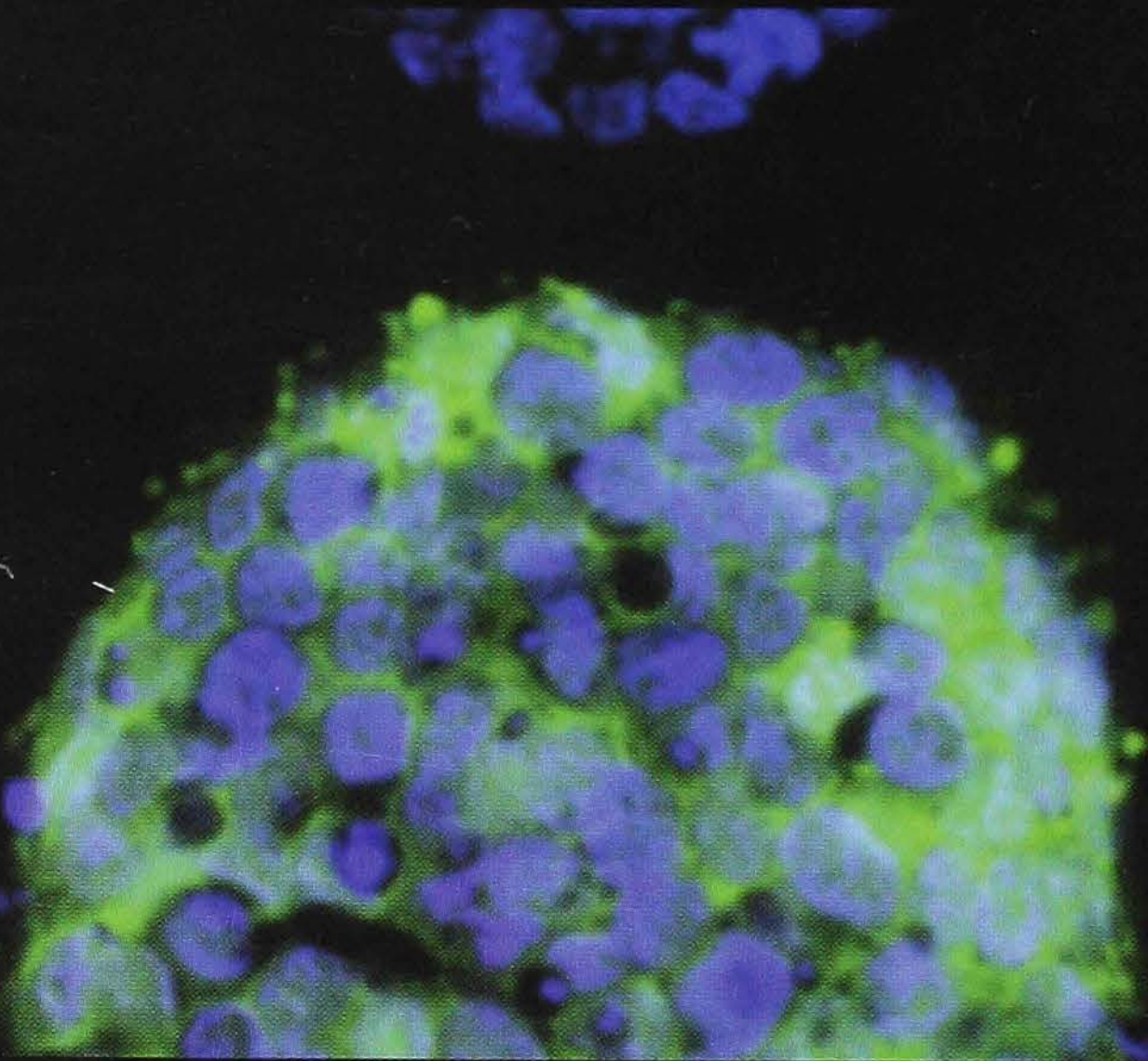
Roger Bingham	The Science Network
Martin Friedlander	The Scripps Research Institute
Fred Gage	The Salk Institute
Larry Goldstein	UC San Diego
Joydeep Goswami	Invitrogen
Irwin Jacobs	QUALCOMM
John Moores	UCSD Moores Cancer Center
Joe Panetta	BIOCOM
Duane Roth	CONNECT
Evan Snyder	The Burnham Institute





ABOUT THE STEM CELL MEETING ON THE MESA

Today's community forum and webcast will bring together scientists, life science business executives, and government officials to learn about the exciting stem cell research initiatives underway in San Diego. Presenters representing the San Diego Consortium for Regenerative Medicine – Burnham Institute for Medical Research, Salk Institute for Biological Studies, The Scripps Research Institute, and the University of California at San Diego – and emerging companies will present cutting-edge research and discuss the scientific, ethical and business challenges



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