

THIRD INTERNATIONAL CONFERENCE ON THE PROGRESS OF
REGENERATIVE MEDICINE AND ITS CULTURAL IMPACT

Cellular Horizons™

How Science, Technology, Information
and Communication Will Impact Society



April 28-30, 2016
The Vatican



Overview

Created by the Stem for Life Foundation and the Vatican's Pontifical Council for Culture, this exclusive international event will gather the world's leading cell therapy scientists, physicians, patient advocates, ethicists, philanthropists, leaders of faith and government officials to discuss the latest cellular therapy breakthroughs and engender hope for the future.

Moderated by renowned journalists, the 2016 event will have a unique focus on pediatric cancers and rare diseases, as well as diseases that occur with aging. We will explore the future and how science, technology, information and communication will allow us to personalize medical solutions and remove inefficiencies, improving outcomes while reducing overall health care costs.

We will unite people of all races, religious beliefs, and cultural and economic backgrounds in a global conversation about the healing potential of cell therapy and the importance of delivering approved therapies to people suffering with debilitating medical conditions worldwide.

Mission

Discuss and understand the importance of scientific advancements, technology and data in the paradigm shift toward regenerative medicine, with a particular focus on cellular therapies.

Unite people, without prejudice, to create an open dialogue about the interconnections among cellular research, technology, faith and culture.

Foster an international conversation among researchers, physicians, philanthropists, faith leaders and policymakers to bring cellular cures to those in medical need and identify a pathway to help reduce human suffering throughout the world.

Create global awareness and inspire the next generation about the vital linkages between cellular sciences, technological innovation and data to optimize health care at the patient level.

Catalyze the necessary funding to support the development of cell therapies, which can effectively treat and potentially cure a broad range of debilitating diseases and medical conditions.

Establish a global movement of cellular researchers, medical practitioners, technological innovators and cultural and religious thought leaders devoted to advancing the paradigm shift toward using cell therapy to treat and cure diseases.

Event Structure

A three-day event moderated by leading journalists.

Day 1

THURSDAY, APRIL 28

THEME: “Hope for Our Children”

DAY: Program from within the Vatican

Day 2

FRIDAY, APRIL 29

THEME: “Cellular and Technological Breakthroughs in Cancer”

DAY: Program from within the Vatican including a keynote speech from the US Vice President Joseph Biden and an audience with the Holy Father, Pope Francis (officially scheduled, pending world events) (guests invited)

Day 3

SATURDAY, APRIL 30

THEME: “Cellular Frontiers: Research, Regulation and Funding”

DAY: Program from within the Vatican

DAY 1: Thursday, April 28

Hope for Our Children

7:15 am - 8:15 am	BUSES LEAVE HOTELS FOR VATICAN CITY	
7:30 am - 8:15 am	GUESTS ARRIVAL AT THE AULA NUOVA DEL SINODO	
8:30 am	CONFERENCE BEGINS	
8:35 am	WELCOME	Gianfranco Cardinal Ravasi , President, Pontifical Council for Culture.
8:50 am	INTRODUCTORY REMARKS	Robin L. Smith, MD , President, Stem for Life Foundation.
9:10 am	TRIUMPH OVER CANCER	Broadcast Journalist and Sergio A. Giral, MD , Chief, Adult Bone Marrow Transplant Service, Melvin Berlin Family Chair in Multiple Myeloma, Memorial Sloan Kettering Cancer Center.
9:30 am	WHEN A GRAFT ATTACKS THE PATIENT'S BODY	Donna L. Skerrett, MD , Chief Medical Officer, Mesoblast Limited, discusses the use of an adult stem cell product to treat patients who have graft versus host disease.
9:50 am	NEW HOPE IN THE TREATMENT OF PEDIATRIC CANCER	Broadcast Journalist moderates a discussion with Susan R. Rheingold, MD , Outpatient Medical Director, Division of Oncology, The Children's Hospital of Philadelphia, Associate Professor, Perelman School of Medicine, Univ. of Pennsylvania, and Nicholas Wilkins and his family.
10:25 am	A FAMILY AFFAIR	Video followed by a discussion with Broadcast Journalist and Elana Simon , who was diagnosed with fibrolamellar hepatocellular carcinoma at the age of 12.
10:40 am	BREAK	
11:00 am	A GLOBAL MISSION TO TREAT CHILDHOOD CANCER	Rev. Fr. Kevin T. FitzGerald, SJ, PhD , Professor, Dr. David P. Lauer Chair in Catholic Health Care Ethics, Georgetown University, discusses our moral obligation to children worldwide.
11:25 am	CANCER TREATMENT IN DEVELOPING NATIONS	Video and moderated discussion by Broadcast Journalist about cancer care and bone marrow transplantation, featuring a special project inspired by Eugene Gasana, Jr. , and led by Tanya M. Trippett, MD , to help children with cancer in Africa. Raphaël F. Rousseau, MD, PhD , Group Medical Director and Global Head, Pediatric Oncology, Genentech, Inc., a member of the Roche group. Tanya M. Trippett, MD , Pediatric Oncologist, Memorial Sloan Kettering Cancer Center.

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DAY 1: Thursday, April 28

Hope for Our Children

12:00 pm	ADULT STEM CELL THERAPY TO TREAT BRAIN INJURIES	Joanne Kurtzberg, MD , Chief Scientific Officer and Chief Medical Officer, Robertson Clinical and Translational Cell Therapy Program, Director, Carolinas Cord Blood Bank, and Director, Pediatric Blood and Marrow Transplant Program, Duke University Medical Center, gives an update on the progress of using cord blood-derived stem cells in cerebral palsy and other diseases of the brain.
12:20 pm	CHILDREN WITH RARE DISEASES	Overview of rare diseases by Stephen C. Groft, PharmD , Senior Advisor to Director, National Center for Advancing Translational Sciences, and Former Director, Office of Rare Diseases Research National Institutes of Health, USA, followed by a moderated discussion by Broadcast Journalist, between Stephen C. Groft, PharmD , and Domenica Taruscio, MD , Director, National Centre for Rare Diseases, Italy, around the needs and challenges of families who have children with rare diseases.
1:00 pm	LUNCH BREAK	
2:15 pm	ARE CELL AND GENE THERAPIES THE ANSWER TO TREAT RARE GENETIC DISEASES?	<p>A video depicting life for a family with a child who has a rare disease followed by a panel moderated by Stephen C. Groft, PharmD, discussing the use of gene therapy and stem cell therapy approaches to treat rare genetic diseases.</p> <p>Gene Therapies: ADA-SCID: Sven Kili, MD, Vice President and Head of Gene Therapy Development, GSK. Batten Disease: David A. Pearce, PhD, President of Sanford Research, Sanford Health; Senior Scientist, Children's Health Research Center, Sanford Research; and Professor, Department of Pediatrics, Sanford School of Medicine at the University of South Dakota. Ocular Diseases: William W. Hauswirth, PhD, Rybacski-Bullard Professor of Ophthalmology, College of Medicine, University of Florida.</p> <p>Stem Cell Therapies: Ataxia Telangiectasia: Jill M. Weimer, PhD, Director and Scientist, Children's Health Research Center, Sanford Research, Sanford Health; and Associate Professor in Department of Pediatrics, Sanford School of Medicine at the University of South Dakota. Epidermolysis Bullosa: Jakub Tolar, MD, PhD, Professor and Director, Stem Cell Institute, University of Minnesota. Hereditary Metabolic Disorder: Joanne Kurtzberg, MD, Chief Scientific Officer and Chief Medical Officer, Robertson Clinical and Translational Cell Therapy Program, Director, Carolinas Cord Blood Bank, and Director, Pediatric Blood and Marrow Transplant Program, Duke University Medical Center.</p>
3:30 pm	FAMILY BONDS	Video followed by a discussion among Broadcast Journalist, Victoria Jackson , and her daughter, Ali Guthy , about living with Neuromyelitis Optica (NMO).

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DAY 1: Thursday, April 28

Hope for Our Children

3:50 pm	REBALANCING AN OVERACTIVE IMMUNE SYSTEM	Neil K. Warma , President and Chief Executive Officer, Opexa Therapeutics, Inc., discusses the use of T-cells to treat NMO and other autoimmune disorders
4:05 pm	BREAK	
4:20 pm	SPECIAL GUEST	Gary Hall, Jr. , Olympic Gold Medal Winner, talks about triumph in spite of having Type 1 Diabetes.
4:35 pm	THE TYPE 1 DIABETES LANDSCAPE	Henry Anhalt, DO , Chief Medical Officer, T1D Exchange, gives an overview of the disease followed by a video tour led by Broadcast Journalists of research centers developing cell therapy treatments for people with Type 1 Diabetes.
4:50 pm	CELL THERAPY RESEARCH DISCUSSION FOR TYPE 1 DIABETES	<p>Henry Anhalt, DO, moderates a panel examining unique approaches to treat and hopefully, one day, cure Type 1 Diabetes.</p> <p>Jeffrey A. Bluestone, PhD, Executive Vice Chancellor and Provost, University of California, San Francisco.</p> <p>Douglas W. Losordo, MD, Senior Vice President, Clinical, Medical and Regulatory Affairs and Chief Medical Officer, Caladrius Biosciences.</p> <p>Douglas A. Melton, PhD, Co-Director of Stem Cell Institute and Co-Chair, Department of Stem Cell and Regenerative Biology, Harvard University.</p> <p>David A. Pearce, PhD, President of Sanford Research, Sanford Health; Senior Scientist, Children's Health Research Center, Sanford Research; and Professor, Department of Pediatrics, Sanford School of Medicine at the University of South Dakota.</p> <p>Yong Zhao, MD, PhD, Associate Scientist, Hackensack University Medical Center.</p>
5:50 pm	LIVING WITH TYPE 1 DIABETES	Broadcast Journalist discusses living with Type 1 Diabetes with the Panzirer family.
6:15 pm	THE 2016 PONTIFICAL KEY INNOVATION AWARD PRESENTATION	

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DAY 2: Friday, April 29*Cellular and Technological Breakthroughs in Cancer*

7:15 am - 8:15 am	BUSES LEAVE THE HOTELS FOR VATICAN CITY	
7:30 am - 8:15 am	GUEST ARRIVAL AT THE AULA NUOVA DEL SINODO	
8:15 am	DAY 2 PROGRAM	
8:15 am	SECOND DAY OPENING REMARKS	Robin L. Smith, MD , President, Stem for Life Foundation.
8:25 am	PERSONAL STORY OF WORK IN ADVOCACY	Broadcast Journalist talks about the importance of finding a cure for cancer.
8:35 am	IMMUNOTHERAPY	<p>Broadcast Journalist moderates a discussion with some of the leading scientists working in the field of immunotherapy.</p> <p>James P. Allison, PhD, Professor and Chair, Immunology, University of Texas MD Anderson Cancer Center.</p> <p>Carl H. June, MD, Richard W. Vague Professor in Immunotherapy, and Director, Translational Research Program, Abramson Cancer Center, Perelman School of Medicine, University of Pennsylvania.</p> <p>Tak W. Mak, MD, Senior Scientist, Ontario Cancer Institute, Princess Margaret Hospital.</p> <p>Jedd D. Wolchok, MD, PhD, Chief, Melanoma and Immunotherapeutics Service and Lloyd J. Old Chair for Clinical Investigation, Memorial Sloan Kettering Cancer Center.</p>
9:35 am	FACILITATING CURES WITH IMMUNOTHERAPY	Discussion between Broadcast Journalist and Sean Parker , President, The Parker Foundation and Founder, The Parker Institute.
10:05 am	COMBINATION THERAPIES FOR CANCER	<p>Broadcast Journalist moderates discussion about the future of cancer therapy and the need for using multiple agents to enhance our body's ability to destroy cancer cells.</p> <p>Chris Boshoff, MD, PhD, Head and Vice President for Early Development, Translational and Immune-Oncology, Pfizer Corporation.</p> <p>Axel Hoos, MD, PhD, Senior Vice President, Therapeutic Head Oncology Research and Development, and Head of Immuno-Oncology, GSK.</p> <p>Grant McArthur, PhD, Professor, University of Melbourne and Sir Peter MacCallum Department of Oncology, Australia.</p> <p>Jeffrey Schlom, PhD, Chief, Laboratory of Tumor Immunology and Biology, National Cancer Institute, National Institutes of Health, USA.</p> <p>Patrick Soon-Shiong, Chairman and CEO, Chan Soon-Shiong Institute of Molecular Medicine, and Chairman and CEO, NantKwest..</p>

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DAY 2: Friday, April 29

Cellular and Technological Breakthroughs in Cancer

11:05 am	BREAK	Move to Città del Vaticano “Sala Nervi.”
11:35 am	CANCER MOONSHOT	Joseph R. Biden, Jr. , Vice President of the United States..
12:00 pm	AUDIENCE WITH POPE FRANCIS	Officially scheduled, subject to world events.
1:00 pm	LUNCH BREAK	
2:00 pm	EVOLVING GENOMICS TO PROTEOMICS AS A PATH TO THE CANCER VACCINE	Patrick Soon-Shiong , Chairman and CEO, Chan Soon-Shiong Institute of Molecular Medicine, and Chairman and CEO, NantKwest.
2:30 pm	RATIONALIZING HEALTH CARE THROUGH BIG DATA	Broadcast Journalist leads a discussion with Steven Kafka, PhD , President and Chief Operating Officer, Foundation Medicine, Inc., Andrew L. Pecora, MD , Founder and Executive Chairman, COTA, and Glenn D. Pomerantz, MD , JD, Chief Medical Officer, Horizon Blue Cross Blue Shield of New Jersey, on how to improve clinical outcomes by identifying and eliminating care variance and driving efficiencies in health care spending.
3:15 pm	USING ADULT STEM CELLS TO TREAT AUTOIMMUNE DISORDERS	Broadcast Journalist moderates a discussion with Richard K. Burt, MD , Chief of the Division of Immunotherapy, Department of Medicine, Northwestern University Feinberg School of Medicine, and two of his patients, Elizabeth Cougentakis and Grace Meihaus .
3:50 pm	BREAK	
4:05 pm	A NEW PARADIGM IN DRUG DISCOVERY AND HEALTH CARE DELIVERY USING TECHNOLOGY AND BIG DATA	Ronald A. DePinho, MD , President, University of Texas MD Anderson Cancer Center, describes MD Anderson’s evolving organizational paradigm, which is designed to more rapidly and efficiently convert knowledge into clinical endpoints that reduce mortality, followed by a panel moderated by Broadcast Journalist discussing how science, technology, information and communication will impact our ability to deliver medical treatment more efficiently at an individual level while improving clinical outcomes and accelerating discovery. Lynda Chin, MD , Associate Vice Chancellor for Health Transformation and Chief Innovation Officer for Health Affairs, The University of Texas. Robert H. High, Jr. , IBM Fellow, Vice President and Chief Technology Officer, IBM Watson. Krishnan Nandabalan, PhD , President and Chief Science Officer, BioXcel Corporation.

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DAY 2: Friday, April 29*Cellular and Technological Breakthroughs in Cancer*

5:00 pm	THE DAWN OF NEXT GENERATION HEALTH CARE	Gregory Stock, PhD , Professor, Department of Genetics and Genomic Sciences and Co-Director, Harris Center for Precision Wellness, Icahn School of Medicine at Mount Sinai and author of “Redesigning Humans,” looks at emerging disruptive technologies and the new health care paradigm that real-time monitoring, “omics,” and data science will bring.
5:30 pm	HUMANS 2.0	Broadcast Journalist moderates a discussion between Gregory Stock, PhD , and Rev. Fr. Nicanor Pier Giorgio Austriaco, OP, PhD, STD , Associate Professor of Biology and Theology, Providence College, exploring societal, ethical, psychological and spiritual implications of how technological advances in life sciences are poised to challenge even what it means to be human.
6:15 pm	THE 2016 PONTIFICAL KEY VISIONARY AWARD PRESENTATION	

DAY 3: Saturday, April 30*Cellular Frontiers: Research Regulation and Funding Cellular Therapy*

7:15 am - 8:15 am	BUSES LEAVE HOTELS FOR VATICAN CITY	
7:30 am - 8:15 am	GUEST ARRIVAL AT THE AULA NUOVA DEL SINODO	
8:15 am	DAY 3 PROGRAM	
8:15 am	THIRD DAY OPENING REMARKS	Robin L. Smith, MD , President, Stem for Life Foundation.
8:30 am	STEM CELLS IN THE BODY AND HOW TO ISOLATE THEM AND APPLY THEM	Eckhard U. Alt, MD, PhD , Todd and Linda Broin Distinguished Professor and Chair, Sanford Research, Sanford Health; Professor, Technische University and Tulane University; and Founder and Chairman of the Board at Isar Klinikum in Munich and InGeneron, Inc., in Houston, discusses where adult stem cells can be collected and how they can be used to repair our bodies.
9:00 am	APPLICATION OF MESENCHYMAL STEM CELLS TO REPAIR DAMAGED TISSUE	<p>Broadcast Journalist discusses the use of adult stem cells to replace and restore damaged tissue.</p> <p>ED: Mohit Khera, MD, MPH, Associate Professor, Baylor College of Medicine.</p> <p>Fistulas: Eduardo Bravo, Chief Executive Officer, TiGenix.</p> <p>Heart: Silviu Itescu, MD, Chief Executive Officer, Mesoblast Limited.</p> <p>Lungs: Marilyn Glassberg Csete, MD, Professor of Medicine and Surgery, Director of the Interstitial Lung Disease Program, and Chief, Pulmonary Division, Interdisciplinary Stem Cell Institute, University of Miami Miller School of Medicine.</p> <p>Musculoskeletal Structures: Philip B. Schoettle, MD, PhD, Medical Director of Orthopedics and Sports Medicine, Isar Klinikum.</p>
10:10 am	REBUILDING AND RESTORING THE HUMAN BODY	<p>Broadcast Journalist moderates a discussion examining exciting new approaches to repairing and restoring organs.</p> <p>David H. Ahrenholz, MD, Former President, American Burn Association.</p> <p>Anthony Atala, MD, Director, Wake Forest Institute for Regenerative Medicine; W.H. Boyce Professor and Chair, Department of Urology, Wake Forest University.</p> <p>Keith Murphy, Chairman and Chief Executive Officer, Organovo, Inc.</p> <p>Marc S. Penn, MD, PhD, Director of Research and Cardiovascular Medicine Fellowship, Summa Cardiovascular Institute.</p>
10:55 am	BREAK	
11:10 am	ALIGNING STAKEHOLDERS TO BUILD A REGENERATIVE CARE MODEL	Edward A. Tenthoff , Managing Director and Senior Research Analyst, Piper Jaffray, C. Randal Mills, PhD , and Andre Terzic, MD, PhD , Michael S. and Mary Sue Shannon Director, Center for Regenerative Medicine, and Marriott Family Professor, Mayo Clinic, discuss the evolution of regenerative medicine from the promise to practice through the integrated efforts of academia, health care providers, industry and regulators.

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DAY 3: Saturday, April 30*Cellular Frontiers: Research Regulation and Funding Cellular Therapy*

11:50 pm	PATHWAY TO SPEEDING CURES	<p>The Honorable Tommy G. Thompson, 42nd Governor of Wisconsin and former HHS Secretary, moderates a special conversation on speeding the development of cellular cures.</p> <p>W.E. Bosarge, PhD, American philanthropist, mathematician and entrepreneur.</p> <p>Andrew C. von Eschenbach, MD, Former Commissioner, U.S. FDA and 12th Director, National Cancer Institute, National Institutes of Health, USA.</p> <p>The Honorable William H. Frist, MD, American physician, businessman, politician, former U.S. Senator from Tennessee and former U.S. Senate Majority Leader.</p> <p>Tatsuya Kondo, MD, PhD, Chief Executive, Pharmaceuticals and Medical Devices Agency (PMDA), Japan.</p> <p>Guido Rasi, MD, Executive Director, European Medicines Agency (EMA).</p>
12:50 pm	PAYING FOR MIRACLES	<p>Broadcast Journalist moderates a special panel examining how not-for-profits are approaching investment into cell therapy research and spending money on a search of effective treatments.</p> <p>Dana Ball, Chief Executive Officer, Unitio and Co-founder and Executive Director, T1D Exchange.</p> <p>C. Randal Mills, PhD, President and Chief Executive Officer, California Institute for Regenerative Medicine (CIRM), California's Stem Cell Agency.</p> <p>David Panzirel, Trustee, The Helmsley Trust.</p> <p>Derek K. Rapp, President and Chief Executive Officer, JDRF.</p>
1:30 pm	LUNCH BREAK	
2:45 pm	FACILITATING CELLULAR INNOVATION AND DISTRIBUTION	<p>Broadcast Journalist hosts discussion with Krishnendu Roy, PhD, Technical Lead, US National Cell Manufacturing Consortium and Director, Marcus Center for Cell-Therapy Characterization and Manufacturing (MC3M), Georgia Institute of Technology, and Fred Sanfilippo, MD, PhD, Director, Emory-Georgia Tech Healthcare Innovation Program, and Medical Director and Trustee, The Marcus Foundation, to address the logistical challenges and approaches to speed cures by removing barriers.</p>
3:25 pm	HEALTHY AGING	<p>Video Searching for Dorian Gray followed by moderated discussion by Broadcast Journalist looking at different perspectives influencing aging.</p> <p>Nir Barzilai, MD, Director, Institute for Aging Research at the Albert Einstein College of Medicine and Director, Paul F. Glenn Center for the Biology of Human Aging Research and of the National Institutes of Health's Nathan Shock Centers of Excellence in the Basic Biology of Aging.</p> <p>Ronald A. DePinho, MD, President, University of Texas MD Anderson Cancer Center.</p> <p>Robert Hariri, MD, PhD, Co-Founder and President, Human Longevity, Inc.</p> <p>Pranela Rameshwar, PhD, Professor, Department of Medicine, Division of Hematology/Oncology, Rutgers New Jersey Medical School.</p>

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DAY 3: Saturday, April 30*Cellular Frontiers: Research Regulation and Funding Cellular Therapy*

4:25 pm	BREAK	
4:40 pm	FEEDING CELLS, STARVING CANCER AND AGING WELL	William W. Li, MD , President and Medical Director, Angiogenesis Foundation.
5:00 pm	CELL THERAPY PHILANTHROPY	<p>Discussion moderated by Broadcast Journalist concerning the criteria for philanthropic support.</p> <p>W.E. Bosarge, PhD, President, Bosarge Family Foundation.</p> <p>Victoria Jackson, Founder, The Guthy-Jackson Charitable Foundation.</p> <p>Sean Parker, President, The Parker Foundation and Founder, The Parker Institute.</p> <p>T. Denny Sanford, Chairman and Chief Executive Officer, United National Corporation and Health Care Philanthropist (with Kelby K. Krabbenhoft, President and Chief Executive Officer, Sanford Health).</p>
6:00 pm	THE 2016 PONTIFICAL KEY PHILANTHROPY AWARD PRESENTATION	
6:20 pm	CLOSING REMARKS	Robin L. Smith, MD , President, Stem for Life Foundation.

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