HSS SYMPOSIUM | 150
honoring the past, envisioning the future
1863 – 2013

May 3 – 4, 2013

The Hospital for the Ruptured and Crippled on the corner of 42nd Street and Lexington Avenue (1870-1912)
One hundred and fifty years ago in the middle of the Civil War, Dr. James A. Knight—a general practitioner—opened a specialty hospital in his private residence on Second Avenue and Sixth Street in New York City called the Hospital for the Ruptured and Crippled. Three moves and 150 years later, that small hospital established to treat the needs of New York City’s growing number of poor and disabled citizens has become the world’s leading center for musculoskeletal medicine—Hospital for Special Surgery.

Over the next two days we will celebrate that milestone, our sesquicentennial, with a series of lectures and panel discussions honoring that history and exploring a variety of topics, including the Civil War, global healthcare, the human genome and we will hear from actual patients for whom HSS was a special place. We will also discuss the economics of medicine, immunology, bone and cartilage basic science, and biomechanics. The following pages will give you much more detailed information.

It is with profound pleasure that I welcome all of you here to help us commemorate this wonderful occasion, and with equally profound gratitude that I thank you for all of your contributions to the success of this event, this hospital, and the scientific and medical advances we’ve been able to achieve.

We trust this will be a valuable and interesting experience for all of you.

— Thomas P. Sculco, MD, Surgeon-in-Chief
FRIDAY, MAY 3, 2013
Honoring the Past, Envisioning the Future: Chair: Thomas P. Sculco, MD

7:00a Registration/Breakfast

SESSION I: EMERGENCE OF A HOSPITAL DURING THE CIVIL WAR
Moderators: Robert N. Hotchkiss, MD and David B. Levine, MD

7:30a Welcome
Thomas P. Sculco, MD, Surgeon-in-Chief
Louis A. Shapiro, CEO and President
Kendrick R. Wilson III, Co-Chair, Board of Trustees

7:40a Lincoln and the Civil War
Ronald C. White, Jr., PhD

8:10a New York, the Era of the Civil War, and Hospital for Special Surgery Reconsidered
Kenneth T. Jackson, PhD

8:40a NYC and the Political Culture of the Civil War Era
Harold Holzer

9:10a The Hospital for the Ruptured and Crippled – Founded in the Civil War
David B. Levine, MD

9:30a Panel Discussion – Civil War, New York City and Medical Care

10:10a Break

SESSION II: INSPIRATIONAL PATIENT NARRATIVES
Moderator: David B. Levine, MD

10:30a Hospital for Special Surgery 150 – A Documentary

10:50a HSS Patient Narrative: Kenneth Handal
Presented by Thomas P. Sculco, MD

11:10a HSS Patient Narrative: Philip Konigsberg
Presented by David B. Levine, MD, Doreen Johnson, RN and James P. Smith, MD

11:30a HSS Patient Narrative: Donall Healy
Presented by Thomas P. Sculco, MD

12:00p Lunch Break

SESSION III: GLOBAL HEALTHCARE & THE ECONOMICS OF MEDICINE
Moderators: Louis A. Shapiro and Thomas P. Sculco, MD

1:30p Practicing Population Health
David B. Nash, MD, MBA

2:00p The Journey to Accountable Care: Past, Present, and Future
Elliott S. Fisher, MD, MPH

2:30p Challenges of Building a Hospital in Ghana
Oheneba Boachie-Adjei, MD

3:00p Panel Discussion

SESSION IV: HUMAN GENOME
Moderators: Thomas J. Kelly, MD, PhD and Lionel B. Ivashkiv, MD

3:30p Next Generation Genomics
Robert B. Darnell, MD, PhD

4:00p Genes, Viruses and the Future of Medicine
Stephen J. Russell, MD, PhD

4:30p Panel Discussion

4:55p Closing Remarks:
Thomas P. Sculco, MD

*All disclosures on file
## SYMPOSIUM | PROGRAM AGENDA

### SATURDAY, MAY 4, 2013

**Musculoskeletal Medicine & Research: Chair: Steven R. Goldring, MD**

<table>
<thead>
<tr>
<th>Time</th>
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<td>7:30a</td>
<td>Breakfast</td>
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### SESSION V: BONE & CARTILAGE
Moderator: Lionel B. Ivashkiv, MD

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<tr>
<td>8:00a</td>
<td>The Reversibility of Skeletal Disease</td>
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<td>Matthew L. Warman, MD</td>
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<td>8:25a</td>
<td>Enhancing Osseointegration</td>
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<td>Mathias P. Bostrom, MD</td>
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<td>8:45a</td>
<td>Current Concepts in Cartilage Repair</td>
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<td>Scott A. Rodeo, MD</td>
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<tr>
<td>9:05a</td>
<td>Molecular Targets for Therapeutic Intervention in Osteoarthritis</td>
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<td>Mary Goldring, PhD</td>
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<td>9:25a</td>
<td>Panel Discussion</td>
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### SESSION VI: BIOMECHANICS/BIOENGINEERING
Moderators: Victor M. Goldberg, MD and Timothy Wright, PhD

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<tr>
<td>9:40a</td>
<td>Developing New Therapies for Osteoarthritis – Let's Not Get Lost in Translation</td>
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<td>Farshid Guilak, PhD</td>
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<td>10:05a</td>
<td>Joint Reconstruction – The End of an Era?</td>
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<td>Timothy Wright, PhD</td>
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<td>10:25a</td>
<td>Domo Arigato, Mr. Roboto – How Robots are Impacting Orthopaedic Surgery</td>
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<td>Andrew D. Pearle, MD</td>
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<td>10:45a</td>
<td>Panel Discussion</td>
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<td>11:00a</td>
<td>Break</td>
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### SESSION VII: RHEUMATIC AND MUSCULOSKELETAL DISEASES
Moderator: Mary K. (Peggy) Crow, MD

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<tr>
<td>11:20a</td>
<td>Meniscus – Friend or Foe: The MeTeOR Trial</td>
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<td>Jeffrey N. Katz, MD, MSc</td>
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<td>11:45a</td>
<td>Mice and Mothers: Progress in Understanding Pregnancy Complications in Patients with SLE</td>
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<td>Jane E. Salmon, MD</td>
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<td>12:05p</td>
<td>What Might it Take to Find a Cure in Rheumatoid Arthritis? A Clinical Perspective</td>
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<td>Vivian Bykerk, BSc, MD, FRCPC</td>
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<td>12:25p</td>
<td>Panel Discussion</td>
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<td>12:40p</td>
<td>Closing Remarks</td>
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<td>Thomas P. Sculco, MD</td>
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<td>Lunch</td>
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*All disclosures on file*
1863-2013: Hospital for Special Surgery
From its most humble beginnings as a local children’s hospital, the Hospital for the Ruptured and Crippled—founded 150 years ago—would one day become the number one orthopaedic hospital in America and a global force in musculoskeletal medicine. Located in a brownstone on the Lower East Side of Manhattan, the 28-bed hospital established a mission to serve those with disabling conditions and disorders and bring them hope for a better quality of life. Throughout the subsequent decades of its continuous growth and advances in medicine, Hospital for Special Surgery has led the way in treating those with musculoskeletal disorders, training generations of specialists in orthopaedics and rheumatology, and further scientific achievements in the laboratory and at the bedside.

Entering the Next Era
Building on a rich legacy of pioneering achievement in the fields of orthopaedics and rheumatology, Hospital for Special Surgery will meet the future with the same unwavering commitment to fulfill its mission in patient care, research, and education it has exhibited in the last 150 years. HSS is dedicated to finding new solutions to improve the lives of patients through the ongoing development of quality initiatives, discoveries in the laboratory, pursuit of innovative technologies, and the training of physicians who will influence musculoskeletal care throughout the world. We will continue to grow both physically and through discovery and innovation as we move into the next 150 years.

ANATOMY OF A HOSPITAL
Hospital for Special Surgery
1863-2013

With more than 530 pages and 150 photographs, Anatomy of a Hospital chronicles the history of the nation’s oldest hospital for orthopaedics, from its beginnings in a doctor’s home to help destitute children with disabilities to the premier hospital it has become today. From its founding during the Civil War to the present, the book’s history of the hospital parallels the history of medicine, of NYC and of the nation during that time period.

ABOUT THE AUTHOR
David B. Levine, MD, has published more than a dozen articles on the history of medicine over the past 30 years and has lectured widely on Civil War medicine. He is emeritus attending orthopaedic surgeon at Hospital for Special Surgery and professor emeritus of clinical orthopaedic surgery at Weill Cornell Medical Center. He is also director of the Archives at the hospital and of the Alumni Association.

Books will be available for sale at HSS Pyramid Cafe locations or through www.amazon.com.
**Oheneba Boachie-Adjei, MD**  
David B. Levine, MD, Chair in Scoliosis  
Chief, Scoliosis Service  
Attending Orthopaedic Surgeon  
Hospital for Special Surgery  
Professor of Orthopaedic Surgery  
Weill Cornell Medical College  
Associate Attending Orthopaedic Surgeon  
Memorial Sloan-Kettering Institute Cancer Center  

Dr. Oheneba Boachie-Adjei is Professor of Orthopaedic Surgery at Weill Cornell Medical School, Chief of the Scoliosis Service and Attending Orthopaedic Surgeon at Hospital for Special Surgery. Born in Ghana, he received his MD from Columbia University's College of Physicians and Surgeons, residency training at HSS and was a spine fellow at the Twin Cities Spine Center in Minneapolis. World-renowned for his treatment of scoliosis, kyphosis and spine reconstruction, as well as for his spirit of philanthropy, Dr. Boachie has opened a hospital to treat the underserved in Ghana and the third world.

**Mathias P. Bostrom, MD**  
Academic Director of Orthopaedic Surgery  
Attending Orthopaedic Surgeon  
Hospital for Special Surgery  
Professor of Orthopaedic Surgery  
Weill Cornell Medical College  

Dr. Mathias P. Bostrom is currently Professor of Orthopaedic Surgery at the Weill Medical College of Cornell University and Hospital for Special Surgery where he also serves as Residency Program Director and Academic Director of Orthopaedic Surgery. Besides his clinical interests in hip and knee surgery, his research emphasis is on bone healing and more recently cancellous bone adaptation and osseointegration for which he has recently been awarded an RO1 from the National Institutes of Health. He is currently in the presidential line of the ORS. Additionally, he has initiated several international programs such as the HSS-China Exchange Program.

**Vivian Bykerk, BSc, MD, FRCPC**  
Associate Attending Rheumatologist  
Hospital for Special Surgery  
Associate Professor of Medicine  
Weill Cornell Medical College  

Dr. Vivian Bykerk is a clinical researcher whose research has focused on ways to optimize outcomes for patients with new onset rheumatoid arthritis. She is actively involved in clinical studies evaluating the real world remission rates and their predictors, therapeutic care gaps, predictive diagnostic algorithms, and clinical care guidelines with the aim of maintaining the quality of life of patients with this painful and debilitating disease. She is engaged in initiatives around the world to ensure early diagnosis and treatment of this disease to support the research to minimize its impact and ultimately enable a cure.

**Mary K. (Peggy) Crow, MD**  
Physician-in-Chief  
Chair, Division of Rheumatology  
Hospital for Special Surgery  
Professor of Medicine  
Weill Cornell Medical College  

Dr. Mary K. Crow received her MD from Cornell University Medical College in 1978, Internal Medicine and Rheumatology subspecialty training at New York Hospital and Hospital for Special Surgery, and post-doctoral research training at The Rockefeller University in the laboratory of Dr. Henry Kunkel. Dr. Crow is Physician-in-Chief and Chair of the Department of Medicine at Hospital for Special Surgery, Professor of Medicine and Chief of the Rheumatology Division at Weill Cornell Medical College, and Professor of Immunology in its Graduate School of Medical Sciences. She is the Joseph P. Routh Professor of Rheumatic Diseases in Medicine at the medical college. Dr. Crow is also Senior Scientist, Co-Director of the Mary Kirkland Center for Lupus Research, and Director of the Autoimmunity and Inflammation Program in the Research Division of Hospital for Special Surgery where she holds the Benjamin M. Rosen Chair in Immunology and Inflammation Research.
Dr. Robert B. Darnell was named President and Scientific Director of the New York Genome Center on November 28, 2012. He has been an HHMI Investigator since 2002. He is also Heilbrunn Professor in Cancer Biology and Head of the Laboratory of Molecular Neuro-Oncology at The Rockefeller University, Director for Science Programs at The Rockefeller University Hospital, and holds appointments at Weill Medical College of Cornell University and Memorial Sloan-Kettering Cancer Center. He received his undergraduate degree in biology and chemistry at Columbia University and his MD and PhD degrees from Washington University School of Medicine. He trained in internal medicine at Mount Sinai Medical School in New York and in neurology at Cornell University Medical School. In 2010, Dr. Darnell was elected a member of the Institute of Medicine of the National Academy of Sciences. He has published nearly 150 articles in leading journals and is a member of the HHMI Investigator Program of the Howard Hughes Medical Institute. He has also served as Co-Director of the Shands Award, the Otto Aufranc Award of the Hip Society and the ORS/OREF Distinguished Investigator Award. He is the author/co-author of more than 250 peer-reviewed articles, ten books, 200 abstracts and 24 book chapters. His professional interests include adult reconstruction and surgery of the hip and knee. His long-term research interests are tissue engineering of bone and cartilage, bone graft physiology and the mechanisms of bone loss as a result of osteolysis.

Dr. Elliot S. Fisher is Professor of Medicine at the Geisel School of Medicine at Dartmouth, and Director of the Dartmouth Institute for Health Policy & Clinical Practice. His early work focused on exploring the causes and consequences of variations in health care utilization and spending. He directed the research and helped coordinate the policy initiatives that led to the implementation of Accountable Care Organizations (ACOs) in the United States. His research now focuses on exploring the determinants of successful ACO formation and on evaluating the impact of health reforms on health system performance. He received his undergraduate and medical degrees from Harvard University and completed his internal medicine residency and public health training at the University of Washington. He has published nearly 150 articles in leading journals and is a member of the Institute of Medicine of the National Academy of Sciences.

Dr. Victor M. Goldberg is a past Chairman of the Department of Orthopaedic Surgery and Professor of Orthopaedic Surgery at Case Western Reserve University. He is a graduate of State University of New York Downstate Medical Center. He finished his residency in Orthopaedics at the Hospital for Special Surgery in New York and was a fellow in transplant immunology at the Clinical Research Center in England with Drs. Eugene Lace and P.B. Medawar. He has served as President of the Orthopaedic Research Society, The Knee Society and as Chairman of the Board of Trustees of the Orthopaedic Research and Education Foundation. He has received three Kappa Delta Awards of the AAOS for outstanding research, The Shands Award, the Otto Aufranc Award of the Hip Society and the ORS/OREF Distinguished Investigator Award. He is the author/co-author of more than 250 peer-reviewed articles, ten books, 200 abstracts and 24 book chapters. His professional interests include adult reconstruction and surgery of the hip and knee. His long-term research interests are tissue engineering of bone and cartilage, bone graft physiology and the mechanisms of bone loss as a result of osteolysis.

Her research on cartilage biology focuses on the molecular regulation of extracellular matrix remodeling. Her major contributions include the identification of the molecular and cellular mechanisms of cartilage development and osteoarthritis pathogenesis. Current work involves relating findings in mouse models of osteoarthritis to aspects of the human disease. Her research is supported by grants from NIA and NIAMS. She has served as Co-Editor of Arthritis & Rheumatism and Associate Editor of Journal of Cellular Physiology, Arthritis Research and Therapy, and Journal of Orthopaedic Research.
Steven R. Goldring, MD
Chief Scientific Officer
Richard L. Menschel Research Chair
Hospital for Special Surgery
Professor of Medicine
Weill Cornell Medical College

Dr. Steven R. Goldring is the Richard L. Menschel Research Chair and Chief Scientific Officer at Hospital for Special Surgery and Professor of Medicine at Weill Cornell Medical College. He is the past President and Secretary-Treasurer of the American Society of Bone and Mineral Research and previously served as the Chairman of the Orthopaedics and Musculoskeletal Study Section at the National Institutes of Health. Dr. Goldring is a recipient of the Klemperer Award, a co-recipient of the Carol Nachman Prize in Rheumatology and is a recent recipient of the Master’s Award of the American College of Rheumatology.

Farshid Guilak, PhD
Laszlo Ormandy Professor and
Vice Chair of Orthopaedic Surgery
Director of Orthopaedic Research
Duke University Medical Center

Dr. Farshid Guilak is the Laszlo Ormandy Professor and Vice-Chair of Orthopaedic Surgery at Duke University Medical Center and is the Director of Orthopaedic Research. He received his PhD in Mechanical Engineering from Columbia University in 1992. Dr. Guilak’s research focuses on the study of osteoarthritis, a painful and debilitating disease of the synovial joints. His laboratory focuses on a multidisciplinary approach to investigate the role of biomechanical factors in the onset and progression of osteoarthritis, as well as the development of new pharmacologic and stem-cell therapies for this disease.

Harold Holzer
Senior Vice President
The Metropolitan Museum of Art
Roger Hertog Fellow
New-York Historical Society

Mr. Harold Holzer serves as Chairman of the Abraham Lincoln Bicentennial Foundation and as the first Roger Hertog Fellow at the New-York Historical Society. The author or editor of 46 books on Lincoln’s life and times, his most recent is The Civil War in 50 Objects (Viking). Among his many awards are the National Humanities Medal, a second-place Lincoln Prize, and lifetime achievement awards from Lincoln Groups and Civil War Round Tables throughout the nation. Mr. Holzer is a Senior Vice President at the Metropolitan Museum of Art.

Robert N. Hotchkiss, MD
Medical Director of Clinical Research
Director of Research
Hand & Upper Extremity Service
Director of Translational and External Initiatives
Associate Attending Orthopaedic Surgeon
Hospital for Special Surgery

Dr. Robert N. Hotchkiss specializes in the treatment of elbow injuries (arthritis and contractures in both children and adults), hand and wrist injuries and arthritis, and vascular disorders of the hand. He is Medical Director of Clinical Research, Director of Research in the Hand & Upper Extremity Service, and Director of Translational and External Initiatives at Hospital for Special Surgery. An Associate Attending Orthopaedic Surgeon, Dr. Hotchkiss also has received additional certification in Orthopaedic Hand Surgery.

Lionel B. Ivashkiv, MD
Associate Chief Scientific Officer
David H. Koch Chair in Arthritis and Tissue Degeneration
Attending Physician
Hospital for Special Surgery
Professor, Medicine and Immunology
Weill Cornell Medical College

Dr. Lionel B. Ivashkiv joined Hospital for Special Surgery in 1992. He combines clinical care of patients with arthritis and inflammatory diseases with basic research in inflammation and gene regulation. Dr. Ivashkiv serves as head of the Rheumatoid Arthritis Registry.
Jeffrey N. Katz, MD, MSc
Professor of Medicine and Orthopaedic Surgery
Harvard Medical School
Brigham and Women’s Hospital

Dr. Jeffrey N. Katz is Director of OrACORe and Professor of Medicine and Orthopaedic Surgery at Brigham and Women’s Hospital and Professor of Epidemiology and Environmental Health at Harvard School of Public Health. He is a rheumatologist and clinical epidemiologist with more than 20 years of clinical and research experience in osteoarthritis and the intersection of osteoarthritis and orthopaedic surgery. Dr. Katz has a broad repertoire of research expertise: He has led multicenter randomized clinical trials, cohort and case control studies, diagnostic evaluations, qualitative studies and quality improvement initiatives. Dr. Katz has more than 350 peer reviewed publications, virtually all relating to the epidemiology and/or outcomes of musculoskeletal conditions.

Thomas J. Kelly, MD, PhD
Benno C. Schmidt Chair
Sloan-Kettering Institute for Cancer Research

Dr. Thomas J. Kelly is the Benno C. Schmidt Chair of Cancer Research at the Memorial Sloan-Kettering Cancer Center. From 2002 to 2013 he was the Director of the Sloan-Kettering Institute where he oversaw a broad research program focused on the causes, diagnosis and treatment of cancer. Prior to joining Sloan-Kettering, Dr. Kelly was Professor and Director of the Department of Molecular Biology and Genetics at the Johns Hopkins University School of Medicine. His research has focused on how the genome is duplicated during the cell cycle with particular emphasis on the ways DNA replication is initiated and controlled. Dr. Kelly is a Member of the National Academy of Sciences, the Institute of Medicine and the American Philosophical Society.

David B. Levine, MD
Director, HSS Alumni Association/Archives
Hospital for Special Surgery
Emeritus Professor
Clinical Orthopaedic Surgery
Weill Cornell Medical College

Dr. David B. Levine is emeritus attending orthopaedic surgeon at Hospital for Special Surgery and Professor Emeritus of Clinical Orthopaedic Surgery at Weill Cornell Medical Center. He is also Director of Archives at HSS and of the Alumni Association. He serves as historian of the Association of Bone and Joint Surgeons. Educated at Dartmouth College, he received his medical degree from Upstate Medical University College of Medicine at Syracuse in 1957. He trained in medical centers in Cleveland, Boston, Los Angeles and New York before serving aboard the USS Forrestal (CVA-59) as a Lieutenant in the United States Navy Medical Corps in 1959. After completing a fellowship in scoliosis in California in 1966, Dr. Levine returned to New York and was appointed to the staff of Hospital for Special Surgery as an orthopaedic surgeon. He served as director of the Scoliosis Service and then as director of the Department of Orthopaedic Surgery at the hospital. He was a founder and past president of the Scoliosis Research Society. Retiring from active patient care in 1995, Dr. Levine and his wife, Janet, an artist, moved to Florence, Italy, where he lectured at Careggi Orthopaedic Hospital, restored antique furniture and mastered Italian cooking. They returned to New York in 1997.

Kenneth T. Jackson, PhD
Jacques Barzun Professor in History and the Social Sciences
Columbia University

Dr. Kenneth T. Jackson is the Barzun Professor of History at Columbia University and Director of the Herbert H. Lehman Center for American History. He is author of the prize-winning book Crabgrass Frontier and many other publications. He is Editor in Chief of The Encyclopedia of New York City, now in its second edition, which has sold more than 100,000 copies. He served as President of the New York Historical Society, the Organizations of American Historians, and the Urban History Association. He is the recipient of numerous awards and honorary doctorates.

David B. Levine, MD
Director, HSS Alumni Association/Archives
Hospital for Special Surgery
Emeritus Professor
Clinical Orthopaedic Surgery
Weill Cornell Medical College

Dr. David B. Levine is emeritus attending orthopaedic surgeon at Hospital for Special Surgery and Professor Emeritus of Clinical Orthopaedic Surgery at Weill Cornell Medical Center. He is also Director of Archives at HSS and of the Alumni Association. He serves as historian of the Association of Bone and Joint Surgeons. Educated at Dartmouth College, he received his medical degree from Upstate Medical University College of Medicine at Syracuse in 1957. He trained in medical centers in Cleveland, Boston, Los Angeles and New York before serving aboard the USS Forrestal (CVA-59) as a Lieutenant in the United States Navy Medical Corps in 1959. After completing a fellowship in scoliosis in California in 1966, Dr. Levine returned to New York and was appointed to the staff of Hospital for Special Surgery as an orthopaedic surgeon. He served as director of the Scoliosis Service and then as director of the Department of Orthopaedic Surgery at the hospital. He was a founder and past president of the Scoliosis Research Society. Retiring from active patient care in 1995, Dr. Levine and his wife, Janet, an artist, moved to Florence, Italy, where he lectured at Careggi Orthopaedic Hospital, restored antique furniture and mastered Italian cooking. They returned to New York in 1997.
Andrew D. Pearle, MD
Associate Attending Orthopaedic Surgeon
Director of Computer Assisted Surgery Center
Hospital for Special Surgery
Assistant Team Physician
New York Mets
Associate Professor of Orthopaedic Surgery
Weill Cornell Medical College

Dr. Andrew D. Pearle is a board-certified orthopaedic surgeon at Hospital for Special Surgery, specializing in Sports Medicine. His clinical interests include arthroscopic and robotic surgery of the shoulder, knee, and ankle. He is the Editor-in-Chief of the orthopaedic journal *Techniques in Knee Surgery*. A graduate of Amherst College and Stanford Medical School, Dr. Pearle completed training in orthopaedic surgery and sports medicine at HSS. After 9/11, he traveled to Hadassah Hospital in Jerusalem during the height of the intifada to assist in the care of terror victims. While participating in this care, Dr. Pearle was inspired by the pioneering use of computer assisted surgery (CAS) at Hadassah. He was recruited as an attending orthopaedic surgeon at Hospital for Special Surgery and was selected to develop one of the first Computer Assisted Surgery programs in the United States. In addition to his responsibilities at Hospital for Special Surgery, Dr. Pearle is a team physician for the New York Mets and coordinates care for the minor league affiliates, including the Brooklyn Cyclones. He has published more than 90 original manuscripts, predominantly on topics related to ACL reconstruction, robotic partial knee replacement, and computer assisted surgery.

Scott A. Rodeo, MD
Attending Orthopaedic Surgeon
Hospital for Special Surgery
Professor of Orthopaedic Surgery
Weill Cornell Medical College
Associate Team Physician
New York Giants Football

Dr. Scott A. Rodeo is the Associate Team Physician for the New York Giants and is the Co-Chief, Sports Medicine and Shoulder Service at the Hospital for Special Surgery. He is Professor of Orthopaedic Surgery at Cornell University and is an Attending Surgeon at the Hospital for Special Surgery and the New York-Presbyterian Hospital. Dr. Rodeo served as a Team Physician for the United States Olympic Team in 2004, 2008, and 2012. He graduated cum laude from Stanford University, where he completed his undergraduate work while on an athletic scholarship. He completed medical school graduating with honors from Cornell University Medical College.

Stephen J. Russell, MBChB, PhD, FRCP, FRCPath (UK), LLD (Hon)
Richard O. Jacobson Professor of Molecular Medicine
Dean for Discovery and Experimental Research
Consultant, Hematology
Mayo Clinic

Dr. Stephen J. Russell is currently the Richard O. Jacobson Professor of Molecular Medicine, Dean for Discovery and Experimental Research, Director for Translational Research in the Cancer Center and the Center for Regenerative Medicine, and is a practicing consultant hematologist at Mayo Clinic in Rochester, Minnesota. He obtained his MBChB from the University of Edinburgh, PhD from the University of London, and moved to Mayo Clinic in 1998 where he built a vibrant new department of Molecular Medicine. His own research has been focused on developing engineered viruses for the treatment of disseminated malignancies and demonstrating their efficacy in clinical trials.
Jane E. Salmon, MD
Attending Physician
Collette Kean Research Chair
Director, SLE and APS Center of Excellence
Co-Director, Mary Kirkland Center for Lupus Research
Hospital for Special Surgery
Professor of Medicine
Professor of Medicine in Obstetrics and Gynecology
Professor, Graduate Program in Immunology and Microbial Pathogenesis
Weill Cornell Medical College

Dr. Jane E. Salmon graduated from New York University and earned a medical degree in 1978 from the College of Physicians and Surgeons of Columbia University. She trained in rheumatology at Hospital for Special Surgery where she is currently the Collette Kean Research Chair, Director of the SLE-APS Center of Excellence and Co-Director of the Mary Kirkland Center for Lupus Research. She is also Professor of Medicine at Weill Cornell Medical College. Dr. Salmon’s research has focused on elucidating mechanisms of tissue injury in lupus and other autoimmune diseases. Her basic and clinical studies have expanded our understanding of pregnancy loss and organ damage in SLE and the determinants of disease outcome in lupus patients with nephritis, pregnancy, and cardiovascular disease.

Thomas P. Sculco, MD
Surgeon-in-Chief and Medical Director
Korein-Wilson Professor of Orthopaedic Surgery
Hospital for Special Surgery
Chairman and Professor of Orthopaedic Surgery
Weill Cornell Medical College

Dr. Thomas P. Sculco is Surgeon-in-Chief and Korein-Wilson Professor of Orthopaedic Surgery at Hospital for Special Surgery. He is Professor of Orthopaedic Surgery at Weill Cornell Medical College and Chairman of Orthopaedic Surgery. He has been awarded both the Otto Aufranc and the Charnley Award from the Hip Society for his work with Thrombogenesis in Total Hip Replacement and the Arthritis Foundation’s Lifetime Achievement Award. He is the first American to be elected as an Honorary Member of the Austrian Orthopaedic Society and recently received the Austrian Cross for Achievement in the Arts and Sciences from the Austrian Government. He was recipient of the Gold Medal Award for Clinical Medicine from Columbia University College of Physicians and Surgeons. He is Executive Director and Founder of the International Society of Orthopaedic Centers (ISOC). He is also a founding member and in the presidential line of the Knee Society.

Louis A. Shapiro
President and CEO
Hospital for Special Surgery

Mr. Louis A. Shapiro is President and Chief Executive Officer of Hospital for Special Surgery. He has served in this role since October 2006, overseeing all strategic and operational aspects of the Hospital’s mission—to advance the field of musculoskeletal medicine through world-class patient care, research, and education. Under Mr. Shapiro’s leadership, the Hospital has experienced significant growth, expansion of facilities, and external recognition of its reputation as the world leader in its specialty areas of orthopaedics, rheumatology, and their related disciplines. Mr. Shapiro has more than 30 years of healthcare experience in a variety of settings. Prior to his arrival at HSS, he served as Executive Vice President and Chief Operating Officer at Geisinger Health System in Pennsylvania. Prior to Geisinger, Mr. Shapiro was a leader in the healthcare practice at McKinsey & Company and began his career at Allegheny General Hospital, where he served in a number of capacities in the Pittsburgh-based system.

Matthew L. Warman, MD
Investigator, Howard Hughes Medical Institute
Director, Orthopaedics Research Laboratories
Boston Children's Hospital
Professor of Genetics and Orthopaedic Surgery
Harvard Medical School

Dr. Matthew L. Warman went to college at Brown University in Providence, Rhode Island and to medical school at Cornell University in New York City. While in medical school, he performed research with Dr. Adele Boskey at Hospital for Special Surgery. After medical school he trained in Pediatrics at the Children's Hospital in Washington, D.C., in Genetics at the Children’s Hospital in Boston, and he performed post-doctoral research with Professor Bjorn R. Olsen at Harvard Medical School. In 1994, Dr. Warman established an independent laboratory and clinical program in the Department of Genetics and Center for Human Genetics at Case Western Reserve University and University Hospitals of Cleveland. In 2006, he returned to Boston to become director of the Orthopaedic Research Laboratories at Boston Children’s Hospital and Professor of Genetics at Harvard Medical School. Dr. Warman is also an investigator with the Howard Hughes Medical Institute.
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