

August 19 - 21, 2021



THE STEADMAN CLINIC

AND

STEADMAN PHILIPPON RESEARCH INSTITUTE

6th Annual Vail Scientific Summit

Presented by

ΔVANOS

COOLIEF
Cooled Radiofrequency Treatment

ON-Q
PAIN RELIEF SYSTEM

ambIT

GAME
READY.


Advances in Regenerative Medicine

WELCOME

Thank you for joining us for the 6th Annual Vail Scientific Summit, presented by Avanos and hosted by Steadman Philippon Research Institute. On behalf of the organizing committee, it is our pleasure to extend you our warmest welcome to Vail. As we center our meeting on the latest musculoskeletal innovation updates, featuring both basic science and clinical applications, and the international impact on the scientific and clinical communities and enhanced patient care, we aim to inform our attendees about the state-of-the-art research that can improve musculoskeletal health and function and overall Healthy Aging.

We've brought together the most distinguished speakers in a variety of fields of research within the scope of regenerative and personalized medicine for this meeting. The program is designed to facilitate interactions between basic and clinical science researchers and physicians in order to generate new collaborations that will accelerate bench-to-bedside translations, ultimately for the patient care. Throughout the Summit, we aim to build on and inspire novel and cutting-edge research that will set the vision for the future of regenerative and personalized medicine to keep people active and healthy.

This event would not be possible without the generous support from Avanos, family donors and industry sponsorships. Many inspiring individuals had a vision for this event and its ability to have an impact on enhancing people's lives through research, innovation, and education. We are thrilled to see how the Summit has grown in the past five years and we're looking forward to building upon this momentum.



Johnny Huard, PhD
Chair - Organizing Committee



Marc J. Philippon, MD
Co-Chair - Organizing Committee

ORGANIZING COMMITTEE

*Representing Steadman Philippon Research Institute
and The Steadman Clinic*



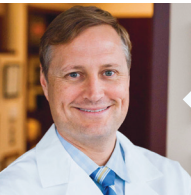
Johnny Huard, PhD

Steadman Philippon Research Institute
Chair - Organizing Committee



Marc Philippon, MD

The Steadman Clinic
Steadman Philippon Research Institute
Co-Chair - Organizing Committee



Matthew Provencher, MD

The Steadman Clinic
Steadman Philippon Research Institute
Co-Chair - Organizing Committee



Sudheer Ravuri, PhD

Steadman Philippon Research Institute
Co-Chair - Organizing Committee

FAMILY SPONSORS

Deirdre and Ronnie Baker

*Session D: Musculoskeletal repair after injury, disease and aging:
Implication for Therapy | Friday, August 20*



After selling both of their companies in the Kansas City area and retiring to ski and play in the mountains, Deirdre and Ronnie Baker are now full-time residents in the Vail Valley. They have spent many years supporting several non-profit charities, both locally and nationally, and are committed to working with organizations that truly make a difference in the lives of people and animals. They feel honored and blessed to be able to

help with Steadman Philippon Research Institute, having both benefited from the exceptional surgical skills, knowledge and cutting-edge research from the doctors within The Steadman Clinic. Special thanks go to Dr. Viola, Dr. Millett and Dr. Karli for their commitment to ensuring the Bakers 100% recoveries and helping them continue their very active lifestyles.



FAMILY SPONSORS CONTINUED

The Borgen Family

Working Lunch - IRB & FDA compliance for orthobiologics/stem cells therapeutics | Saturday, August 21



Bjorn Erik and Kathy Borgen have made significant contributions to numerous educational, cultural, recreational, and environmental programs here in the Vail Valley. Philanthropy and volunteerism are fundamental values that have been passed on to their children and grandchildren. Committed to family and touched by their own life experiences, they have quietly pursued their commitment to community.

The Borgens have long supported Steadman Philippon Research Institute. As a former research assistant at Harvard University and the University of Colorado, Kathy believes there is no better place to locate cutting-edge orthopaedic research than in an active community like Vail. For Bjorn, giving to education-based initiatives is a value cultivated during his childhood. Born in Norway, Bjorn emigrated to the United States with his family after World War II and credits his schooling with providing endless support and a roadmap for success. His commitment to education was solidified, and he eventually went on to earn an M.B.A. from Harvard Business School and have a very successful career.



Donna Giordano

*Session E: Stem Cell/Orthobiologics Banking
& Clinical Applications | Saturday, August 21*



Donna Giordano has been actively engaged in the philanthropic landscape of the Vail Valley for many years. She has served on the board of directors of the Vail Valley Foundation, Bravo! Vail, and provided a wide array of support for Steadman Philippon Research Institute, Vail Veterans Program, Vail Health, Roundup River Ranch, and Walking Mountains.

Beyond the Vail Valley, Giordano was exceptionally active and served on the board of directors of the Washington D.C. area Ronald McDonald House. She served on the board of the directors of the Blue Ridge School, and also provided significant support to Craig Hospital.

She has two children, Dawn Force (married to Tim Force), and Jason Giordano; and four grandchildren Sierra, Brittney, Jaxson and Jaidan to whom she has passed on her legacy of philanthropic involvement as a guiding principle of her life.



FAMILY SPONSORS CONTINUED

Linda and Mitch Hart

*Keynote Special Session: New Horizon on Healthy Aging “Precision Longevity: Re-thinking what it means to Live Long and Prosper” | Thursday, August 19
Session A: Sports and Military Performances | Friday, August 20*



LINDA W. HART

Ms. Hart is Vice Chairman, President and CEO of Hart Group, Inc., a diversified group of companies. She is also Vice Chairman of CSIS, a Washington, D.C. nonpartisan public policy research institution. She has served in leadership positions on numerous corporate and charitable boards, including UTSW President’s Advisory Board, Southwestern Medical Foundation’s Board, the Board of Visitors for UTSW Hospitals

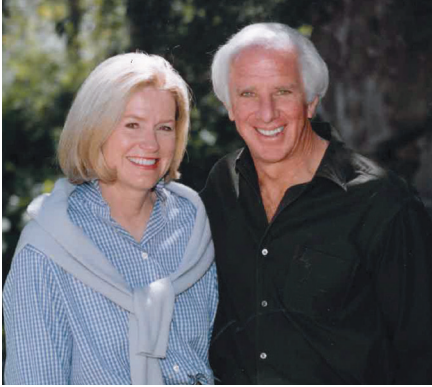
& Clinics, Executive Boards of both SMU Schools of Law and Business, Hart Center for Engineering Leadership and SMU Hart Global Leaders Forum. She is the former Chairman of the NYSE Legal Advisory Board, has been of member of Duke University’s Institute of Public Policy, is a member of the Dallas Symphony Association (former Chairman), and Dallas Opera Board. She is a graduate of the University of Pittsburgh and SMU School of Law and, for 25 years, was engaged in private practice as an attorney specializing in corporate finance matters. She served as outside consultant to the U.S. Securities and Exchange Commission and as a Visiting Professor at Stanford Law School.

MILLEDDGE A. “MITCH” HART, III

A graduate of the USNA, Mr. Hart – after service in the Marine Corps – began work at IBM. In 1962 he joined Ross Perot as one of the founders of EDS. He became President in 1970, a position he held until his retirement in 1977. Mr. Hart is one of the founders of The Home Depot, where he served on the board of directors and executive committee for more than 30 years. In 1983, Mr. Hart founded Hart Group, Inc., of which he remains Chairman. In 2017, Mr. Hart was awarded the USNA Distinguished Graduate Award, the highest honor the USNA awards to its graduates. Mr. Hart is Trustee Emeritus at both SMU and Duke University, where he started the Hart Leadership Program. He serves on various boards, including the SMU Hart Center for Engineering Leadership, SMU Hart Global Leaders Forum and Baylor Health Care System Foundation Board. Mr. Hart, together with Ms. Hart, founded the USNA Leadership Conference, an annual conference encompassing both military and civilian institutions.

Mary and Steven Read

Session G: Bone and Articular cartilage regeneration and repair | Saturday, August 21



Steven Read attended boarding school in Switzerland from 1958-64. He attended the University of Utah, on a skiing scholarship, from 1965-70. In 1970 he received his undergraduate degrees in International Finance and French.

Read then served in the Special Forces for the United States Army from 1970-1974.

Business:

Co-Founder and Co-CEO of Grocery Outlet, a 300-store chain in eight western states, 3rd generation business and currently on the Board of Directors.

Owner/Partner of Read Investments. A Real Estate Development Company and Family Office in Berkeley.

Read is a current member of the Board of Directors of Steadman Philippon Research Institute (Vail, CO), UCSF Board of Overseers, USSA Ski Team, and the United States Olympic Committee. He is a past Trustee of the Fine Arts Museums of San Francisco, Oakland Museum of California, San Francisco Opera, Duke University, University of California, San Francisco, Head-Royce School (Oakland, CA), and YPO Nor-Cal Chapter Chair.

Read is a member of the Bohemian Club (San Francisco, CA), Pacific Union Club (San Francisco, CA), Claremont Country Club (Oakland, CA), and the Orinda Country Club (Orinda, CA).

Read skies, races cars, golfs, fly fishes and bikes.

Read's family is 5th generation Northern Californian and resides in Lafayette, Ca.

He is married and has three children and eight grandchildren.

FAMILY SPONSORS CONTINUED

Mary Sue & Mike Shannon

Session C: Innovative Technologies for Musculoskeletal Repair | Friday, August 20 & Session F: Biomedical Engineering/Extracellular Matrix/ Musculoskeletal repair and Surgical outcome | Saturday, August 21



Mr. Shannon co-founded KSL Capital Partners, LLC in 2005 and co-founded its predecessor KSL Recreation Corporation in 1992, serving as its President and Chief Executive Officer.

Since 2005, KSL Capital Partners has raised over \$7.4 billion in equity capital commitments and invests exclusively in travel and leisure businesses. Mr. Shannon co-founded and became Chief Executive Officer of KSL Resorts in 2004 following the sale

of KSL Recreation. Prior to establishing KSL Recreation with Kohlberg Kravis Roberts, he served as President and CEO of Vail Associates, Inc. (owner of Vail and Beaver Creek Resorts) in Vail, Colorado, from 1986 to 1992.

Mr. Shannon currently serves on the Board of Trustees of Northwestern University, and as a Board Member of the University of Wisconsin Foundation, the Vail Valley Foundation, the United States Ski and Snowboard Team Foundation, the Eisenhower Medical Center, Steadman Philippon Research Institute and Vail Health Foundation. He also serves on the Mayo Clinic Global Advisory Council. Mr. Shannon is a member of the World Presidents' Organization.



Ann Smead and Michael Byram

Session H: Cancer Therapeutics | Saturday, August 21



Ann and Michael are longtime supporters of many nonprofits in the Vail Valley, including the Steadman Philippon Research Institute. Ann is the Chairman of the Board at the Vail Valley Foundation, and also serves on the board of Vail Health Foundation. Ann's career began at IBM, and she's held senior positions in commercial real estate and investment management. After the Berlin Wall fell, she was a leader in bringing

advanced real estate finance and management training to Eastern Europe.

Michael's career included developing high-tech medical patents and he holds over 20 patents. He was CEO of the University of Colorado Foundation 2001-2006. As a Navy officer he was in a life-changing shipboard accident. Through advanced medicine, Vail Health and TSC doctors help him continue to lead a productive life.

Spruance Foundation II

*Session B: Interventional Strategies for
Healthy Aging | Friday, August 20*



As a past resident of Vail, I love returning to this “gem” in the mountains. I first met Dr. Marc Philippon at the 3rd Annual Scientific Summit; he introduced me to Dr. Vinod Jaskula-Ranga, President of Hunterian Medicine, specializing in CRISPR gene editing technology. Having a daughter, Chelsea, with cystic fibrosis made this introduction very fortuitous. Thank you to Dr. Philippon and the team at SPRI!

WELCOME ADDRESS



Johnny Huard, PhD

Steadman Philippon Research Institute



Marc Philippon, MD

The Steadman Clinic
Steadman Philippon Research Institute



Dan Drawbaugh

The Steadman Clinic
Steadman Philippon Research Institute

KEYNOTE SPECIAL SESSION: HEALTHY AGING



Johnny Huard, PhD

Steadman Philippon Research Institute



Vonda Wright, MD, MS

Northside Hospital Orthopedic Institute
Sports Medicine

FEATURED SPEAKERS



**Tamara
Alliston, PhD**

University of California, San Francisco

*Osteocytes in Skeletal Aging and
Joint Disease*



**Chelsea
Bahney, PhD**

Steadman Philippon Research Institute

*Bioactive materials to therapeutically
modulate endochondral fracture repair*



**Lisa
Blumencranz, PhD**

Agendia

*From Science Fiction to the Frontline:
accelerating the discovery & translation
of cancer therapies*



**Scott
Bruder, MD, PhD**

Bruder Consulting

*Successfully Partnering with your IRB
and the FDA to Maintain Compliance*



**Dustin
Anderson, MD**

The Steadman Clinic

*Chair for Session E: Stem Cell/
Orthobiologics Banking &
Clinical Applications*



**Julie
Barone, DO, FACS**

Vail Health

*The Frontline: Targeted Cancer Therapy
and Optimization of Survival*



**Marko
Bodor, MD**

Bodor Clinic

Biologics for Spine: Fact or Fiction



**Susan
Bukata, MD**

UC San Diego Health

*PTH receptor drugs: new possibilities for
an old friend*

FEATURED SPEAKERS CONTINUED



**Arnold
Caplan, PhD**

Case Western Reserve University
*MSCs and Osteochondral Committed
Progenitors*



**Sarah
de la Motte, PhD**

Uniformed Services University
*Predicting Injury? Time to Start Looking
Beyond Biomechanical Risk Factors*



**Nicole
Ehrhart, VMD**

Colorado State University
*Great Danes and Granddads: How
Comparative Research is Moving the Needle
in Longevity and Cancer Therapeutics*



**Tim
Ganey, PhD**

Vivex Biologics/Miami Tissue Bank
Exosomes and Regenerative Medicine



**John
Cooke, MD, PhD**

Houston Methodist Research Institute
*mRNA Nanotherapeutics for
Regenerative Medicine*



**George
Dodge, PhD**

University of Pennsylvania
*Advances in a Novel Drug Delivery
System for Musculoskeletal Applications*



**Naomasa
Fukase, MD, PhD**

Steadman Philippon Research Institute
*Cartilage Healing with Microfracture
Augmented with Fisetin & Bone Marrow
Aspirate Concentrate*



**Don
Gibbons, MD, PhD**

MD Anderson Cancer Center
*The role of the tumor extracellular
matrix in regulating metastasis and
immune response*



**Vaida
Glatt, PhD**

University of Texas Health, San Antonio

Biomimetic Hematoma: Novel Carrier for the Delivery of Growth Factors to Enhance Bone Healing



**Farshid
Guilak, PhD**

Washington University in St. Louis

Engineering the genome to develop new therapies for obesity, aging, and arthritis



**Johnny
Huard, PhD**

Steadman Philippon Research Institute

Development of Biological Approaches to Delay Aging Related Disease and Conditions of the Musculoskeletal System



**Rick
Lieber, PhD**

Shirley Ryan AbilityLab

Intraoperative and Laboratory Studies of Human Skeletal Muscle Contractures



**Jonathan
Godin, MBA, MD**

The Steadman Clinic

Detectability of senescent cells and biomarkers in synovial fluid and peripheral blood in the setting of acute knee injury



**Sealy
Hambright, PhD**

Steadman Philippon Research Institute

Senescence Profiling of Peripheral Blood: Potential Clinical Applications



**James
Kirkland, MD, PhD**

Mayo Clinic

Senolytic Agents: The Pathway to Translation



**Aiping
Lu, MD**

Steadman Philippon Research Institute

Improved histopathology in muscular dystrophy by exposed to healthy peripheral circulation: a parabiotic pairing study

FEATURED SPEAKERS CONTINUED



**Mark
Markel, DVM, PhD**

University of Wisconsin

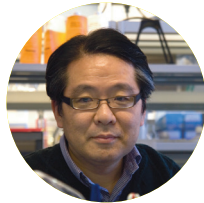
*Chair for Session C: Innovative
Technologies for Musculoskeletal Repair*



**William
Murphy, PhD**

University of Wisconsin

*Bioinspired minerals for mRNA
stabilization and delivery*



**Naoki
Nakayama, PhD**

Steadman Philippon Research Institute

*Cellular rejuvenation through the iPS
technology for the future cell-based
cartilage therapy*



**Karen
Payne, PhD**

University of Colorado Anschutz
Medical Campus

*Regenerative Medicine Approaches for
the Treatment of Growth Plate Injuries*



**Kirk
McGilvray, PhD**

Colorado State University

*Development of Translational Ovine
Chronic Rotator Cuff Disease Models*



**George
Muschler, MD**

Cleveland Clinic

*Measurement, Management, and
Automation in MSC fabrication using
Performance-Based Selection*



**Suzanne
Page, JD**

Steadman Philippon Research Institute

*Chair for Working Lunch Session: IRB &
FDA compliance for orthobiologics/stem
cells therapeutics*



**Bruno
Péault, PhD**

University of California, Los Angeles
and University of Edinburgh

*Mesodermal Stem Cells, Tissue Fibrosis,
and Aging*



**John
Peloza, MD**

The Steadman Clinic
Implants, Metals, and Cells, Oh My



**Matthew
Provencher, MD**

The Steadman Clinic &
Steadman Philippon Research Institute
*Sports and the Military: My DOD Funding
Experience and Lessons Learned*
**Second talk title listed within program*



**Bill
Rodkey, DVM**

*Chair for Working Lunch Session: IRB & FDA
compliance for orthobiologics/stem cells
therapeutics*



**Linda
Sandell, PhD**

Washington University School of Medicine
Editor in Chief of JOR
*Chair for Session F: Biomedical Engineering/
Extracellular Matrix/Musculoskeletal repair
and Surgical outcome*



**Marc
Philippon, MD**

The Steadman Clinic &
Steadman Philippon Research Institute
*Biologic therapies in the hip: innovation
and the promotion of healing*



**Sudheer
Ravuri, PhD**

Steadman Philippon Research Institute
*Chair for Session D: Musculoskeletal
repair after injury, disease and aging:
Implication for Therapy*



**Paul
Robbins, PhD**

University of Minnesota
*Development of novel senotherapeutics
for extending healthspan*



**Kelly
Santangelo, DVM, PhD**

Colorado State University
*Age-related iron accumulation as a
potential driver of osteoarthritis*

FEATURED SPEAKERS CONTINUED



**Katie
Sikes, PhD**

Colorado State University

*Chair for Session F: Biomedical
Engineering/Extracellular Matrix/
Musculoskeletal repair and Surgical outcome*



**Francesca
Taraballi, PhD**

Houston Methodist

*Injectable and Implantable Biomaterials for
Musculoskeletal Disorders*



**Armando
Vidal, MD**

The Steadman Clinic

*Chair for Session A: Sports and Military
Performances*



**Bing
Wang, MD, PhD**

University of Pittsburgh

*Combinatorial Gene Therapy for Duchenne
Muscular Dystrophy*



**Samuel
Stupp, PhD**

Northwestern University

Dynamic Biomaterials for Cell Signaling



**Scott
Tashman, PhD**

Steadman Philippon Research Institute

*Advanced imaging to characterize
musculoskeletal soft tissue injury and
response to treatment*



**Leslie
Vidal, MD**

The Steadman Clinic

*Chair for Session G: Bone and Articular
cartilage regeneration and repair*



**Lauren
Watkins, PhD**

Steadman Philippon Research Institute

*Hybrid [¹⁸F]NaF PET/MRI Detects
Regions of Elevated Bone Metabolism in
Osteoarthritic Knees*



**Kaitie
Whitney**

Steadman Philippon Research Institute

*Orthobiologics for musculoskeletal
regeneration & repair: Reporting
Standardization & Therapeutic
Improvements*



**Vonda
Wright, MD, MS**

Northside Hospital Orthopedic Institute
Sports Medicine

*Precision Longevity: Re-thinking what it
means to Live Long and Prosper*



**Coen
Wijdicks, PhD**

Arthrex

*Scientific Evidence of Innovative
Technologies and Novel Surgical
Techniques*



**Michael
Zuscik, PhD**

University of Colorado Anschutz
Medical Campus

*Thinking Outside the Joint: Can
Gut Interventions Support Disease
Modification in OA?*



8/19

4:00 pm

REGISTRATION OPENS

5:30 - 6:30 pm

WELCOME RECEPTION

6:30 -7:30 pm

OPENING REMARKS AND BUFFET DINNER

Evening Sponsored by: Avanos

*Opening Remarks: Johnny Huard, PhD, Marc Philippon, MD
and Dan Drawbaugh*

**KEYNOTE SPECIAL SESSION: New Horizon on Healthy Aging
“Precision Longevity: Re-thinking what it means to Live Long
and Prosper ”**

Keynote Sponsored by: Linda and Mitch Hart

Johnny Huard, PhD, Steadman Philippon Research Institute

**Vonda Wright, MD, MS, Northside Hospital Orthopedic Institute
Sports Medicine**



8/20

7:00 - 8:00 am	BREAKFAST
8:00 - 9:50 am	SESSION A: SPORTS & MILITARY PERFORMANCES <i>Chairs: Matthew Provencher, MD and Armando Vidal, MD</i> <i>Sponsored by: Linda and Mitch Hart</i>
8:00 - 8:35 am	KEYNOTE ADDRESS: Marc Philippon, MD , The Steadman Clinic & Steadman Philippon Research Institute
8:35 - 8:50 am	Matthew Provencher, MD , The Steadman Clinic & Steadman Philippon Research Institute
8:50 - 9:05 am	Sarah de la Motte, PhD , Uniformed Services University
9:05 - 9:20 am	Naomasa Fukase, MD, PhD , Steadman Philippon Research Institute
9:20 - 9:35 am	Coen Wijdicks, PhD , Arthrex (<i>Virtual Speaker</i>)
9:35 - 9:50 am	Q & A
9:50 - 10:05 am	BREAK
10:05 - 11:55 am	SESSION B: INTERVENTIONAL STRATEGIES FOR HEALTHY AGING <i>Chairs: Vonda Wright, MD, MS and Marc Philippon, MD</i> <i>Sponsored by: Spruance Foundation</i>
10:05 - 10:40 am	KEYNOTE ADDRESS: James Kirkland, MD, PhD , Mayo Clinic
10:40 - 10:55 am	John Cooke, MD, PhD , Houston Methodist Research Institute (<i>Virtual Speaker</i>)
10:55 - 11:10 am	Johnny Huard, PhD , Steadman Philippon Research Institute
11:10 - 11:25 am	Sealy Hambricht, PhD , Steadman Philippon Research Institute
11:25 - 11:40 am	Paul Robbins, PhD , University of Minnesota (<i>Virtual Speaker</i>)
11:40 - 11:55 am	Q & A
11:55 am - 1:00 pm	LUNCH

SCHEDULE CONTINUED

1:00 - 2:50 pm

SESSION C: INNOVATIVE TECHNOLOGIES FOR MUSCULOSKELETAL REPAIR

*Chairs: Mark Markel, DVM, PhD and Chelsea Bahney, PhD
Sponsored by: Mary Sue and Mike Shannon*

1:00 - 1:35 pm

KEYNOTE ADDRESS: Sam Stupp, PhD, Northwestern University

1:35 - 1:50 pm

Vaida Glatt, PhD, University of Texas Health, San Antonio

1:50 - 2:05 pm

Francesca Taraballi, PhD, Houston Methodist (*Virtual Speaker*)

2:05 - 2:20 pm

Michael Zuscik, PhD, University of Colorado Anschutz Medical Campus

2:20 - 2:35 pm

Naoki Nakayama, PhD, Steadman Philippon Research Institute

2:35 - 2:50 pm

Q & A

2:50 - 3:05 pm

BREAK

3:05 - 5:10 pm

SESSION D: MUSCULOSKELETAL REPAIR AFTER INJURY, DISEASE AND AGING: IMPLICATION FOR THERAPY

*Chairs: Rick Lieber, PhD and Sudheer Ravuri, PhD
Sponsored by: Dierdre and Ronnie Baker*

3:05 - 3:40 pm

KEYNOTE ADDRESS: Rick Lieber, PhD, Shirley Ryan AbilityLab

3:40 - 3:55 pm

Aiping Lu, MD, Steadman Philippon Research Institute

3:55 - 4:10 pm

Bing Wang, MD, PhD, University of Pittsburgh

4:10 - 4:25 pm

Kirk McGilvray, PhD, Colorado State University

4:25 - 4:40 pm

Kaitie Whitney, Steadman Philippon Research Institute

4:40 - 4:55 pm

Scott Tashman, PhD, Steadman Philippon Research Institute

4:55 - 5:10 pm

Q & A

8/21

7:00 - 8:00 am

BREAKFAST

8:00 - 9:50 am

SESSION E: STEM CELL/ORTHOBIOLOGICS BANKING & CLINICAL APPLICATIONS

*Chairs: Jonathan Godin, MBA, MD and Dustin Anderson, MD
Sponsored by: Donna Giordano*

8:00 - 8:35 am

KEYNOTE ADDRESS: Farshid Guilak PhD, Washington University in St. Louis

8:35 - 8:50 am

Arnold Caplan, PhD, Case Western Reserve University

8:50 - 9:05 am

George Muschler, MD, Cleveland Clinic

9:05 - 9:20 am

Bruno Péault, PhD, University of California, Los Angeles and University of Edinburgh

9:20 - 9:35 am

Jonathan Godin, MBA, MD, The Steadman Clinic

9:35 - 9:50 am

Q & A

9:50 - 10:00 am

BREAK

10:00 am - 12:05 pm

SESSION F: BIOMEDICAL ENGINEERING/EXTRACELLULAR MATRIX/ MUSCULOSKELETAL REPAIR AND SURGICAL OUTCOME

*Chairs: Linda Sandell, PhD and Katie Sikes, PhD
Sponsored by: Mary Sue and Mike Shannon*

10:00 - 10:35 am

KEYNOTE ADDRESS: William Murphy, PhD, Washington University

10:35 - 10:50 am

George Dodge, PhD, University of Pennsylvania

10:50 - 11:05 am

Lauren Watkins, PhD, Steadman Philippon Research Institute

11:05 - 11:20 am

John Pelozo, MD, The Steadman Clinic

11:20 - 11:35 am

Tim Ganey, PhD, Vivex Biologics / Miami Tissue Bank
Sponsored by: Vivex

11:35 - 11:50 am

Marko Bodor, MD, Bodor Clinic

11:50 am - 12:05 pm

Q & A

12:05 - 12:45 pm

WORKING LUNCH: IRB & FDA COMPLIANCE FOR ORTHOBIOLOGICS/ STEM CELLS THERAPEUTICS

*Chairs: Suzanne Page, JD and Bill Rodkey, DVM
Sponsored by: The Borgen Family*

12:05 - 12:20 pm

Matthew Provencher, MD, Steadman Philippon Research Institute

12:20 - 12:35 pm

Scott Bruder, MD, PhD, Bruder Consulting

12:35 - 12:45 pm

Q & A

SCHEDULE CONTINUED

12:45 - 1:00 pm	BREAK
1:00 - 3:05 pm	SESSION G: BONE AND ARTICULAR CARTILAGE REGENERATION AND REPAIR <i>Chairs: Leslie Vidal, MD and Scott Tashman, PhD</i> <i>Sponsored by: Mary and Steven Read</i>
1:00 - 1:35 pm	KEYNOTE ADDRESS: Tamara Alliston, PhD, University of California, San Francisco
1:35 - 1:50 pm	Susan Bukata, MD, UC San Diego Health
1:50 - 2:05 pm	Chelsea Bahney, PhD, Steadman Philippon Research Institute
2:05 - 2:20 pm	Karin Payne, PhD, University of Colorado Anschutz Medical Campus
2:20 - 2:35 pm	Kelly Santangelo DVM, PhD, Colorado State University
2:35 - 2:50 pm	Q & A
2:50 - 3:00 pm	BREAK
3:00 - 4:15 pm	SESSION H: CANCER THERAPEUTICS <i>Chairs: Julie Barone, DO, FACS and Nicole Ehrhart, VMD</i> <i>Sponsored by: Ann Smead and Michael Byram</i>
3:00 - 3:15 pm	Nicole Ehrhart, VMD, Colorado State University
3:15 - 3:30 pm	Don Gibbons, MD, PhD, MD Anderson Cancer Center
3:30 - 3:45 pm	Lisa Blumencranz, PhD, Agendia (Virtual Speaker)
3:45 - 4:00 pm	Julie Barone, DO, FACS, Vail Health
4:00 - 4:15 pm	Q & A
4:15 - 4:20 pm	FINAL COMMENTS

ABOUT US

Steadman Philippon Research Institute

Steadman Philippon Research Institute (SPRI) is dedicated to keeping people of all ages physically active through orthopaedic research and education. With an enduring focus on applied clinical translation, SPRI is dedicated to discovering new therapies, treatments and cures that can be brought to patients in a clinical setting. We utilize the latest regenerative medicine techniques—basic science studies at the cellular level—to investigate the causes and effects of degenerative arthritis, techniques of musculoskeletal regeneration and healing processes. SPRI also utilizes state-of-the-art Biomotion and Robotics technologies, magnetic resonance imaging and thirty years of patient outcomes data in its bench-to-bedside approach to research. The 501(c)(3) charitable organization is one of the most published organizations in sports medicine research and education. Learn more at SPRIVail.org.

The Steadman Clinic

The Steadman Clinic is a world-renowned orthopaedic clinic with facilities located in Aspen, Frisco, Edwards and Vail, Colorado. The clinic specializes in sports medicine including knee, hip, shoulder, elbow, hand, spine, foot and ankle injuries and joint replacement. Our experience and research have led to significant advances in the fields of orthopaedics and regenerative sports medicine. The Steadman Clinic treats patients from all walks of life, including recreational and professional athletes from all over the world. Learn more at TheSteadmanClinic.com.



PARTICIPATING COLLABORATORS

Agendia
Arthrex
Bodor Clinic
Bruder Consulting
Case Western Reserve University
Cleveland Clinic
Colorado State University
Houston Methodist Research Institute
Mayo Clinic
MD Anderson Cancer Center
Northside Hospital Orthopedic Institute Sports Medicine
Northwestern University
Shirley Ryan AbilityLab
Steadman Philippon Research Institute
The Steadman Clinic
UC San Diego Health
Uniformed Services University
University of California, Los Angeles
University of California, San Francisco
University of Colorado Anschutz Medical Campus
University of Minnesota
University of Pennsylvania
University of Pittsburgh
University of Texas Health Science Center at San Antonio
University of Wisconsin
Vail Health
Vivex Biologics / Miami Tissue Bank
Washington University in St. Louis
Washington University School of Medicine

CORPORATE SPONSORS

PRESENTING SPONSOR

AVANOS

COOLiEF
Cooled Radiofrequency Treatment

ON-Q
PAIN RELIEF SYSTEM

ambIT
THERAPEUTIC IMAGING THERAPY

**GAME
READY**

SUMMIT SPONSORS

Arthrex

Canon
CANON MEDICAL

SPEAKER SPONSORS

VIVEX
BIOLOGICS

Match One
Medical Marketing Consultants 

stryker

CONTRIBUTING SPONSORS

PROOF POINT
BIOLOGICS 


**U.S. OLYMPIC & PARALYMPIC
NATIONAL
MEDICAL CENTER**

Mark Your Calendars



Steadman Philippon Research Institute 2021/2022 Events
www.sprivail.org/events

17TH ANNUAL GOLF CLASSIC

Wednesday, September 15, 2021
Sanctuary Golf Course, Sedalia, Colorado

6TH ANNUAL INJURY PREVENTION SYMPOSIUM

April 27 & 28, 2022
Two-Day Virtual Conference

7TH ANNUAL VAIL SCIENTIFIC SUMMIT

August 20 - 24, 2022
Vail Marriott Mountain Resort, Vail, Colorado



Thank You

to all our speakers, session chairs, session sponsors and
our corporate sponsors for making this event possible
and to all our guests for sharing in our vision to
advance Regenerative Medicine.

