



# Texas Institute of Musculoskeletal Science Research Summit

**From Spaceflight to Sarcopenia...**

**From Regenerative Medicine to Rheumatoid Arthritis...**

**From Metabolic Disease to Muscular Dystrophy...**

**From Nutrients to Neuromuscular Disease**

## TIMS Objectives

### Multidisciplinary Infrastructure

Create a pioneering research environment by integrating seven colleges, the Texas A&M Space Institute, Cardiovascular Research Institute, Neuroscience Institute, EnMed, and the Huffines Institute at Texas A&M University.

### National Research Resource

Establish TIMS as a leading national hub for musculoskeletal research, innovation, and translation to improve regional and national quality of life.

### Economic & Research Impact

Enhance multidisciplinary grants, attract foundation support and private industry, creating a substantial economic impact on Texas and the U.S.

### Education & Public Engagement

Promote mentorship, teaching, and public education through graduate programs, fellowships, and community outreach with the Huffines Institute.

**May 14<sup>th</sup> – 15<sup>th</sup>, 2025**

**Texas Institute of Musculoskeletal Science**

### Location:

Annenberg Presidential Conference Center  
1002 George Bush Drive West  
College Station, TX 77843

[TIMS.tx.info@gmail.com](mailto:TIMS.tx.info@gmail.com)

# TIMS RESEARCH SUMMIT PROGRAM

Texas Institute of Musculoskeletal Science Research

Wednesday, May 14, 2025

**BREAKFAST: 8:00 am**

## **THERAPEUTIC DEVELOPMENT and MUSCULOSKELETAL SCIENCE**

8:50 am: Opening Remarks

9:00 am: Daniel L. Alge, PhD Dept. of Biomedical Engineering, TAMU

9:30 am: Aaron B. Morton, PhD Dept. of KNSM, TAMU

*Applications for Inorganic Biomaterials in Regeneration of Skeletal Muscle*

10:00 am: Michael R. Moreno, PhD EnMed Dept of Mechanical Engineering, TAMU

## **NEUROMUSCULAR DISEASE – Duchenne Muscular Dystrophy, CACHEXIA**

10:40 am: Peter P. Nghiem, PhD Dept. of Veterinary Integrative Biology, TAMU

*Therapeutic Development in Muscular Dystrophy: Are We on the Right Track?*

11:10 am: Kyle/Kristen Cox

11:40 am: James Carson, PhD

**LUNCH 12:10 pm – 1:00 pm**

## **SPACEFLIGHT HAZARDS**

1:00 pm: Jeffrey C. Chancellor, PhD Director: Aerospace Medicine, Dept. Medical Phys. TAMU

1:30 pm: John R. Ford, PhD Dept. of Nuclear Engineering, TAMU

2:00 pm: Joo-Hyun Kim, MS Dept. of KNSM, TAMU

2:30 pm: Adrien Robin, PhD Dept. of Aerospace Engineering, TAMU

*Cardiovascular Deconditioning in Altered Gravity*

**3:00 pm – 4:30 pm: GRADUATE POSTER SESSION**

**4:45 pm: POSTER AWARDS**

# TIMS RESEARCH SUMMIT PROGRAM

## Thursday, May 15, 2025

**BREAKFAST: 8:00 am**

### KEYNOTE SPEAKERS

9:00 am: Ashok Kumar, PhD **University of Houston College of Pharmacy**

*Novel Signaling Mechanisms Regulating Muscle Mass During Cancer*

9:30 am: Yi-Ping Li, PhD **McGovern Medical School, University of Texas Health - Houston**

### BONE PATHOBIOLOGY, MOLECULAR & CELLULAR MEDICINE

10:10 am: Srividha "Sri" Iyer, PhD Dept. of Veterinary Physiology & Pharmacology, TAMU

10:40 am: Larry J. Suva, PhD Head: Dept. of Veterinary Physiology & Pharmacology, TAMU

*Therapeutic Development in Muscular Dystrophy: Are We on the Right Track?*

11:10 am: Dana Gaddy, PhD Dept. of Veterinary Integrative Biology, TAMU

11:40 am: Carl A. Gregory, PhD Dept. of Medical Physiology, TAMU

*Deciphering the Shared Extracellular Matrix Language of Skin and Bone Regeneration*

**LUNCH 12:10 pm – 1:00 pm**

### SKELETAL MUSCLE, METABOLIC PATHOBIOLOGY

1:00 pm: Steven E. Riechman, PhD Dept of KNSM, TAMU

1:30 pm: Mariana Janini Gomes, PhD Dept. of KNSM

*Skeletal Muscle Remodeling in Response to Exercise and Disease*

2:00 pm: Nicolaas E.P. Deutz, PhD Dept. of KNSM, TAMU

*Research on Muscle Metabolism and Function at CTRL*

2:30 pm: Yuxiang Sun, MD, PhD Dept. of Nutrition, TAMU

3:00 pm: Shogo Sato, PhD Dept. of Biology, TAMU

### TIMS STEM PRACTITIONERS

3:40 pm: Charity Cavazos, PhD Dept. of Veterinary Physiology & Pharmacology, TAMU

*From the Anatomy Table to the Community Clinic: Leveraging Technology and Peer Teaching to Prepare Future Musculoskeletal Health Professionals in the Rio Grande Valley*

4:10 pm: Amanda R. Davis, PhD Dept. of Veterinary Physiology & Pharmacology, TAMU

# Abstract Guidelines

- . Abstract authors must submit by May 6<sup>th</sup>, 2025.
- . Accepted file format: Microsoft Word or PDF
- . Maximum length: Body of the abstract must not exceed 300 words, excluding the title, authors, and affiliations.

## **Every abstract must contain the following components:**

- . Sentence stating the study objective, unless given in the title
- . Hypothesis
- . Brief statement of methods, if pertinent
- . Summary of the results
- . Conclusions
- . Disclosure of funding sources

**Please submit by email to [tims.tx.info@gmail.com](mailto:tims.tx.info@gmail.com)**

# Registration

**FREE Registration**

**Catered Breakfast and Lunch Provided**

**Two Day Summit**

**Sponsor: Catalyst Grant**

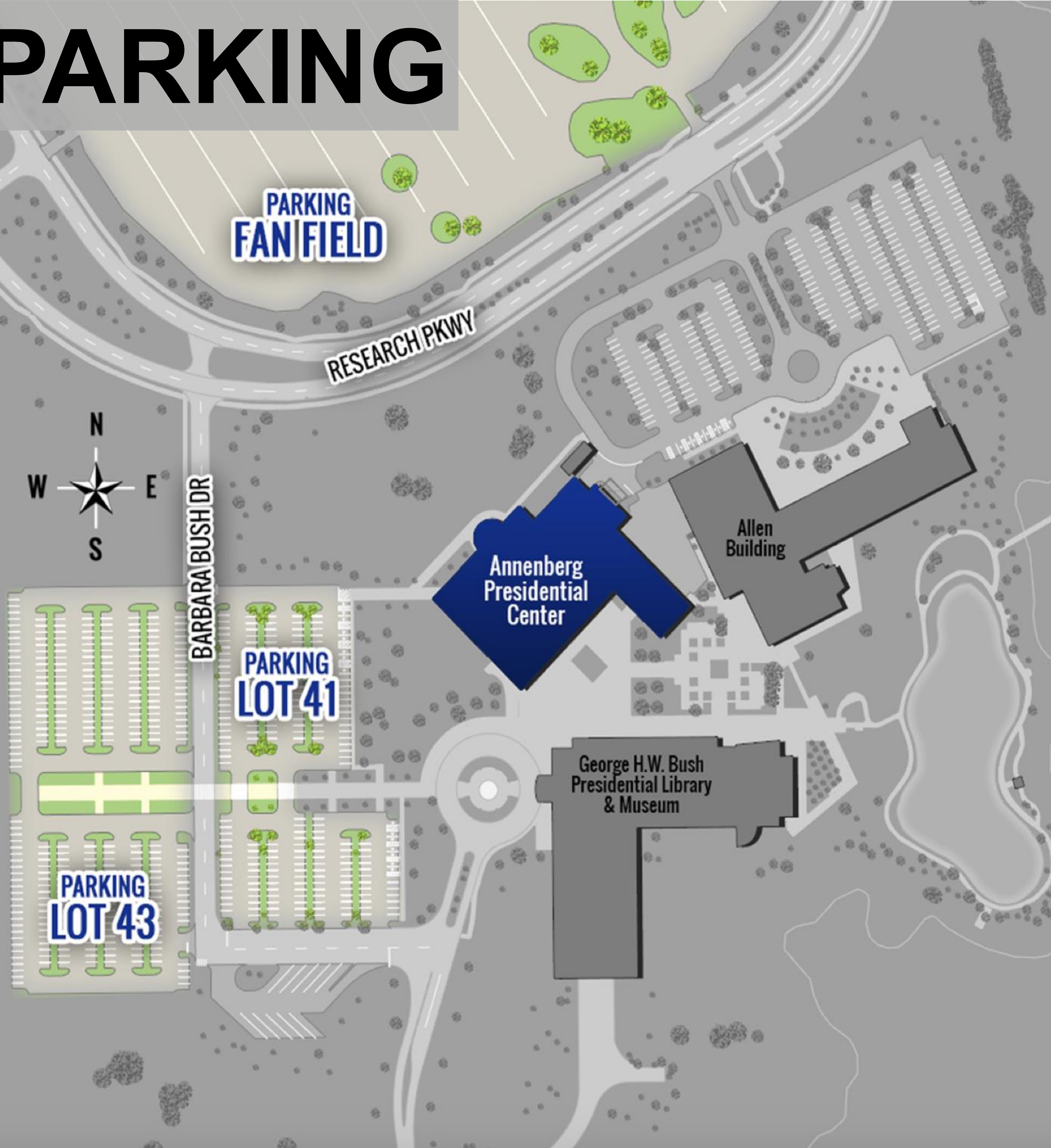
**Students, Faculty, Postdocs, Public**

**Are Welcome!**

**Registration Link:**

**<https://forms.gle/8eS2DGwW5iWvK9Tq6>**

# PARKING



Texas A&M University Lot 43 and the Fan Field are available for guests with valid Texas A&M parking passes