### SCHEDULE OF EVENTS

**MORNING SESSIONS**  
(Davis Auditorium, 17th Floor – Roberts Hospital)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:30 am</td>
<td>Registration and Continental Breakfast (Lobby area of 17th Floor – Roberts Hospital)</td>
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</table>
| 8:30 am | Welcome  
Dr. Lynne Opperman, AAA President (Texas A&M Univ. Baylor College of Dentistry) |
| 8:45 am | Careers in Anatomy  
Dr. Kathy K H Svoboda, AAA Past President and Fellow (Texas A&M Univ. Baylor College of Dentistry) |
| 9:00 am | Qualifications for Anatomical Teaching – Credentials Necessary for Accreditation and How it Really Works!  
Dr. Robert Spears (Texas A&M Univ. Baylor College of Dentistry) |
| 9:30 am | Branding: It’s Not Just for Cattle Anymore; The Double-edged Sword of Social Media and Academia  
Dr. Jason Mussell (LSU Health Sciences Center) |
| 10:00 am | Break |
| 10:30 am | Herbivore, Carnivore, Omnivore: Dentistry in Zoo and Companion Animals  
Dr. Bonnie Bloom |
| 11:00 am | Head and Neck Anatomy in 3 Dimensions  
Dr. Diane Flint (Texas A&M Univ. Baylor College of Dentistry) |
| 11:30 am | Patterns of Injury in Head Trauma Detectable via Neuroimaging  
Dr. Elisabeth Wilde (Baylor College of Medicine) |
| LUNCH/POSTERS | (Folsom Room, 17th Floor – Roberts Hospital) |
| 12:15 pm | Lunch, Career Networking, Poster Presentations/Judging  
(*poster details on page 5*)  
Moderator: Dr. Mel Vaughan (Univ. of Central Oklahoma) |

**LUNCH/POSTERS**  
(Folsom Room, 17th Floor – Roberts Hospital)

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>2:00 pm – 3:15 pm</td>
<td>Workshop I</td>
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<tr>
<td>3:15 pm – 3:35 pm</td>
<td>Break</td>
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<tr>
<td>3:35 pm – 4:50 pm</td>
<td>Workshop II (repeat of workshops below)</td>
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1. **Ultrasound in the Anatomy Lab**  
2:00 pm – 3:15 pm only  
(Levit Room, 17th Floor – Roberts Hospital)  
Dr. Geoffrey Guttman (Texas College of Osteopathic Medicine) & Dr. Vaughan Lee (Texas Tech Univ. Health Sciences Center)

Attendees will be introduced to the principles of ultrasound and some approaches to applying ultrasound imaging in the anatomy lab. Attendees will have an opportunity to use ultrasound to obtain images relevant to the thyroid, wrist, liver and gallbladder. A demonstration will precede the ultrasound activity. Attendees will work in groups and use the ultrasound machine on each other. The last part of this activity will be to view the heart on a live model. A live model will be available.
Ultrasound Guided Injections - 3:35 pm – 4:50 pm only (Levit Room, 17th Floor – Roberts Hospital)
Dr. Geoffrey Guttmann (Texas College of Osteopathic Medicine) & Dr. Vaughan Lee (Texas Tech Univ. Health Sciences Center)

Attendees will be introduced to the use of ultrasound for performing ultrasound guided injections. There will be a demonstration of musculoskeletal ultrasound imaging of the upper limb (rotator cuff muscles). Appropriate specimens will be available for use to perform the ultrasound guided injections on shoulder bursa. This is a clinical application of ultrasound in the anatomy lab.

2. The Virtual Histology Classroom (Baylor College of Dentistry Room 30)
Dr. Diane Chico (Texas A&M Health Science Center)

The purpose of this workshop is to provide hands-on activity in utilizing the Aperio virtual microscopy system, including the utilization of the digital slide conferencing for collaborative learning among students. Participants will also be engaged in discussing the challenges to using virtual microscopy in the classrooms.

3. Increasing your Course’s Online Content Delivery and Presence using Social Media (Baylor College of Dentistry Room 310)
Dr. Jason Mussell (LSU Health Sciences Center)

- Learn how to make basic course/lab Facebook pages; Twitter accounts; etc.
- Storing content on cloud servers like DropBox, Google Drive, etc.
- Demonstrate how to control access to personal social media accounts.
- Review some of the “best practices” of individuals around the country and how to do the same.

CONCURRENT SESSION – PLATFORM TALKS (Davis Auditorium, 17th Floor – Roberts Hospital)
2:00 pm – 4:50 pm Moderator: Brent Thompson (Univ. of Texas Health Science Center San Antonio)

2:00 pm – 2:15 pm Katherine Brakora (UC Berkeley)
Characterizing sexual differences in skull traits of African antelope

2:15 pm – 2:30 pm Toan Tran (Univ. of North Texas Health Science Center) *
Internal Iliac Artery Branching Pattern Variation

2:30 pm – 2:45 pm Maria Burbano (Univ. of Texas at Dallas) **
Failure mechanisms of metal-on-metal total hip implants with adverse local tissue reaction

2:45 pm – 3:00 pm Ridwan Haseeb (Univ. of Texas at Dallas) **
Poly(ethylene glycol)-block-poly(L-lactide) (PEG/PLA) Encapsulation of Oral Antibiotics for Drug Delivery into Dentin Tubules

3:00 pm – 3:15 pm Jonathan Chari (The Univ. of Texas at Dallas) **
Characterization of Two-Solution Bone Cements (TSBC) with Calcium Phosphate (CaP) and Antimicrobial Fillers

3:15 pm – 3:35 pm Break

3:35 pm – 3:50 pm L. Bruno Ruest (Texas A&M Univ. Baylor College of Dentistry)
Endothelin-A receptor function in cardiac neural crest cell migration and development

3:50 pm – 4:05 pm Yinshi Ren (Texas A&M Univ. Baylor College of Dentistry)*
Osteocyte changes in osteoporosis may be significant for disease development: An assessment with multiple quantitative and qualitative techniques
Ryan Schmidgall (Texas A&M Univ. Baylor College of Dentistry)*
Mesenchymal stem cell protein TSG-6 decreased inflammation in a rat gingival wound healing model

Marko Ilikj (Univ. of Central Oklahoma) *
Determining the Effects of Narciclasine on Myofibroblast Differentiation

Wenrui Ye (UTHSCSA) **
Prenatal under-nutrition impairs development of the serotonergic nervous system

*Finalist for a Graduate Student Platform Award Competition
**Finalist for an Undergraduate Student Platform Award Competition

KEYNOTE SPEAKER
(Davis Auditorium, 17th Floor – Roberts Hospital)

5:00 pm – 6:00 pm
Keynote Speaker - Dr. Jian (Jerry) Feng (Texas A&M Univ. Baylor College of Dentistry)
The Life and Fate of Osteocytes in Health and Disease

6:00 pm - 6:15 pm
Student Competition Award Winners Announced

RECEPTION
(Foyer, 17th Floor – Roberts Hospital)

6:15 pm – 7:15 pm
Reception

POSTERS
(Folsom Room, 17th Floor – Roberts Hospital)

Poster #
First Author/Abstract title

Anatomy Education

1
Dongmei Cui (Univ. of Mississippi Medical Center)
Comparison of microscope anatomy classes taught with and without laboratory sessions – From students’ perspective

2
Guenevere Rae (Louisiana State Univ. Health Sciences Center)
A three-dimensional brain dissection protocol for the medical Neuroscience Course

3
Victoria Roach (Western Univ.)
The path more travelled: A gaze-based approach to analyzing spatial reasoning

4
Earlanda Williams (Univ. of Texas Health Science Center San Antonio)
Group testing of anatomical structures through “pin-it-yourself” practicals

5
Leah Labranche (Western Univ.)
The effect of videogame training on visuospatial anatomy comprehension

6
Dolgor Baatar (Texas Tech Univ. HSC, Paul Foster School of Medicine)
Common invasive clinical procedures adapted for use in the medical school gross anatomy laboratory

7
Alan Sakaguchi (Univ. of Texas Health Science Center at San Antonio)
Low tech can be high yield: simple but effective paper models of the anterior abdominal wall, pterygopalatine fossa, and triangles of the neck
Joseph Peterson (Univ. of Texas Health Science Center at San Antonio School of Medicine)
Upper extremity nerve block training videos

Omid Rahimi (Univ. of Texas Health Science Center at San Antonio)
Using anatomical variants to enhance students’ understanding of normal anatomy and embryology

Anita Joy (Southern Illinois Univ. School of Dental Medicine)
An integrative approach to teaching and learning in the gross anatomy laboratory

Anatomy

Victor Taylor II (Univ. of North Texas Health Science Center)
Case study on the pathology of the greater trochanter

Levi Howard (Univ. of North Texas Health Science Center)
Bilateral supernumerary head of biceps brachii with an atypical insertion

Joseph Thomas (Univ. of North Texas Health Science Center)
Case report on a variant bifurcated teres minor muscle

Monica Bullock (Univ. of North Texas Health Science Center)
Case study of an anatomical variation of the biceps brachii muscle

Biological Anthropology

Seth Gardner (Bowling Green State Univ.)
A new method of quantifying a biological shape: Adobe Acrobat Pro Measuring Tool 9.0, a valid and reliable option

Leslie Smith (Texas A&M Univ. Health Science Center)
Morphometry and fabric orientation of trabecular bone in human craniofacial regions

Developmental Biology/Bones/Cartilage/Teeth

Maria Serrano (Baylor College of Dentistry)
Ephrin Reverse Signaling Induces Mouse Palatal Fusion without TGFβ3 Signaling

Tobi Odejimi (Univ. of Central Oklahoma)
The influence of fibers on the osseointegration of implant-bone interfaces

Yan Jing (Baylor College of Dentistry)
Direct transformation of osteocytes from chondrocytes accelerates subchondral osteosclerosis in OA patients

Asha Eapen (Southern Illinois Univ.)
DMP1 mediated ERK1/2 activation is involved in osteoblast differentiation

Oral Biology

Maria Burbano (Univ. of Texas at Dallas)
Study of foreign body composition in human soft tissues around implants affected by peri-implantitis

Anie Thomas (The Univ. of Texas at Dallas)
The effect of bacterial biofilm and micromotion on corrosion of dental implants
Bioengineering

23 Sutton Wheelis (Univ. of Texas at Dallas)
Effects of chemical treatments on different grades of titanium for dental applications

24 Sathyanarayanan Sridhar (The Univ. of Texas at Dallas)
Characterization of corrosion mechanisms in retrieved dental implants

Cell Biology

25 Jessica Webb (Univ. of Central Oklahoma)
The tension-generating ability and appearance of myofibroblast tension phenotype by precancerous keratinocytes, Ker-CT-Ras

26 Jing Herwig (Univ. of Central Oklahoma)
The N-Acetyl Cysteine (NAC) effect on Myofibroblast Proliferation and Phenotype

27 Dima Sawalha (Univ. of Central Oklahoma)
Contraction and differentiation differences between DP147 versus DP147+hTERT

Neurobiology

28 Mikhail Umorin (Baylor College of Dentistry, Texas A&M Univ.)
Comparison of different meal analyses in rats