



**ANATOMY  
CONNECTED**  
**2023** MARCH 25 - 27  
WASHINGTON, DC

**Advances in Science,  
Research, & Education**

**JW Marriott  
Washington DC**

1331 Pennsylvania Avenue NW  
Washington, DC, USA, 20004



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## Contents

Friday, March 24.....	3
Saturday, March 25.....	4
Sunday, March 26 .....	9
Monday, March 27 .....	13
Governance Meetings .....	17
Poster Sessions .....	18
Exhibitors .....	20
Floorplan .....	20



**Special recognition and gratitude to the following committees and award competition judges for their hard work in planning a fantastic program:**

Program Committee • Educational Affairs Committee  
Professional Development Committee • Committee for Early-Career Anatomists

3:00 pm – 5:00 pm

*Pennsylvania Avenue Terrace (lobby level)*

### Integration Station: How to Design Integrated Modules for the Gross Anatomy Laboratory Workshop

*Speakers:* **Sara Allison** (Western Michigan University Homer Stryker M.D. School of Medicine), **Wendy Lackey-Cornelison** (University Toledo College of Medicine and Life Sciences) and **Caroline Mueller** (Ohio University Heritage College of Osteopathic Medicine)

*Pre-registration required.*

3:00 pm – 5:00 pm

*Russell/Hart Room*

### Thread and Fabric of Anatomy—A Practical Workshop

*Speakers:* **Janet Philp** (University of Edinburgh) and **Sarah McConnell** (University of Rochester)

*Pre-registration required.*

6:00 pm – 7:00 pm

*Grand Ballroom Salon III*

### Plenary Speaker: Matthew Carrano, Smithsonian's National Museum of Natural History



Vertebrate Anatomy and Education in the new Deep Time Fossil Halls at the Smithsonian's National Museum of Natural History

7:00 pm – 8:30 pm

*Grand Ballroom Salon I & II*

### Welcome Reception: Hosted by President, Valerie DeLeon

Sponsored by **WILEY**

*Your conference badge is your ticket!*

## Code of Conduct Policy & Reporting

The American Association for Anatomy (AAA) is committed to providing a professional, inclusive, welcoming, and safe environment that is free from harassment and discrimination of any kind.

If you experience or observe any form of harassment which violates the Code of Conduct Policy, you are encouraged to anonymously report your experience or observation via a third party (independent) online portal.

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## SATURDAY, MARCH 25

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8:30 am – 10:00 am

*Grand Ballroom Salon I*

### Understanding Metabolic Evolution: Recreating the Past and Shaping the Future

*Chair:* **Guo Huang** (University of California, San Francisco)

- **Jasmina Wiemann** (University of Chicago)  
Fossil Biomolecules Reveal the Paleobiology of Extinct Amniotes
- **Nicolas Rohner** (Stowers Institute for Medical Research)  
Starvation Resilience in Cavefish
- **Guo Huang** (University of California, San Francisco)  
Why do Mammalian Organs Lose Regenerative Potential

8:30 am – 10:00 am

*Grand Ballroom Salon II*

### Getting to the Heart of Vascular Development, Disease and Regeneration

*Co-sponsored by Developmental Dynamics*

*Chair:* **Gary Schoenwolf** (University of Utah)

- **Joe Yost** (University of Utah)  
Cardiovascular Development and Predisposition to Adult Heart Disease
- **Mathilde Mommersteeg** (University of Oxford)  
Unlocking the Secrets of Cardiovascular Regeneration
- **Janine Ziermann** (Howard University, College of Medicine)  
Heart Development and Anatomy in p63<sup>-/-</sup> Mouse Mutants
- **Daniel Schneider** (Cooper Medical School of Rowan University)  
Myocardial CD34<sup>+</sup> Stromal Cells/Telocytes Demonstrate a Distinctive Spatial Distribution Within a Large Transmural Post-Myocardial Infarction Scar

8:30 am – 10:00 am

*Grand Ballroom Salon III*

### Falling for Medicine Hook, Line, and Donor: Using Anatomy Outreach to Engage Underrepresented Youth and Promote Interest in Health Care Fields

*Chair:* **Shannon Helbling** (Washington State University)

- **Susanna M. Winger** (Washington State University)  
Compassion as the Basis of Morality: Prevalence of Donor use for Anatomy Outreach and Faculty Perspectives of Ethical Considerations
- **Naomi A. Schmalz** (Creighton University)  
“A Whole New Perspective on How the Body Fits Together”—An Evaluation of a Cadaver Laboratory Experience for High School Students
- **Lynne M. Holden** (Albert Einstein College of Medicine)  
Promoting Careers in Health Care for Urban Youth: What Students, Parents and Educators can Teach Us

8:30 am – 10:00 am

*Pennsylvania Avenue Terrace (lobby level)*

### Weight Stigma in Healthcare Education and Practice—A Missed Opportunity to Do No Harm (Roundtable)

*Chairs:* **Krista Rompolski** (Moravian University) and **Madelyn Crowell** (Duke University)

- **Jeffrey Hunger** (Miami University)  
A Weight Stigma Primer for Health Educators
- **Rebecca Pearl** (University of Florida)  
Weight Bias in Health Education: The Need for Evidence-based Solutions
- **Natalie Loschiavo** (Balanced Nutrition, LLC)  
The Lived Experiences of Weight Stigma in Healthcare

# SATURDAY, MARCH 25

10:00 am – 10:30 am

Longworth Room Foyer

## Buddy Participant Meet Up

Capitol Ballroom Lobby

## Networking Break and Exhibits

10:30 am – 12:00 pm

Salon G

## FaceTime—Facial Form in Evolution, Function & Disease Platform

Chair: **Yann Heuzé** (CNRS – Univ. Bordeaux)

- **Estephania Candelo** (Fundación Valle del Lili)  
*Postdoctoral Platform Presentation Award Finalist*  
Geomorphometric Ear Analysis in Individuals with Genetic Syndromes
- **Ethan McQueen** (University of Western Ontario)  
*Langman Graduate Student Platform Presentation Award Finalist*  
Effects of Incremental Maxillomandibular Advancement on Airway Resistance and Facial Morphology
- **Molly Selba** (University of Florida)  
Comparative Morphology of Mammals Exhibiting Facial Reduction
- **Elizabeth Daly** (Salisbury University)  
Does Developmental Explain Molar Complexity in Haplorrhine Primates?
- **Jennavieve Lambeth** (University of Florida)  
Primate Dental Sacs, a Driver of Craniofacial Growth
- **Ana Melero-Pardo** (Central University of the Caribbean School of Medicine)  
Two-Dimensional Geometric Morphometric Analysis of Nasopharyngeal Shape

10:30 am – 12:00 pm

Grand Ballroom Salon I

## Limb Development, Evolution, and Regeneration

Chair: **Susan Mackem** (Center for Cancer Research, NIH NCI-Frederick)

- **Susan Mackem** (Center for Cancer Research, NIH NCI-Frederick)  
Regulation of Pattern Formation during Embryonic Development
- **Matthew Harris** (Harvard Medical School)  
Genetic Basis of Morphological Change in Appendage Evolution
- **Deneen M. Wellik** (University of Wisconsin-Madison)  
Repair and Regeneration of the Limb Musculoskeletal System

10:30 am – 12:00 pm

Grand Ballroom Salon II

## Master Class Session—Anatomical Symmetry and the Breaking of Symmetry in Development and Evolution

Chair: **Joan Richtsmeier** (Pennsylvania State University)

- **Rebecca Burdine** (Princeton University)  
Symmetry and Asymmetry in The Body Plan
- **William Jeffery** (University of Maryland)  
Left-Right Visceral Asymmetry: Evolution in the Cavefish Model System
- **Marc Spencer** (George Washington University)  
The Importance of Asymmetry in Teaching Medical Anatomy

*Continues on next page.*



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**#anatomy23**

# SATURDAY, MARCH 25

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10:30 am – 12:00 pm

*Grand Ballroom Salon III*

## Education Platform Session #1

*Chair: Ramaswamy Sharma* (University of Texas Health Science Center at San Antonio)

- **Leslie Hoffman** (Indiana University School of Medicine)

A Six-year Analysis of Students' Resource Usage and Exam Performance in an Integrated Human Structure Course

- **Brittney Link** (Lake Erie College of Osteopathic Medicine)

Evaluating Kinesthetic Activities for Learning the Skull Base Neurovasculature Across the Preclinical Medical School Continuum

- **Livianna Gallone** (University of Western Ontario)

*Educational Research Platform Presentation Award Finalist*

Investigating the Effect of Object Edges on Identification during Haptic Exploration

- **Sakshi Sinha** (McMaster University)

*Educational Research Platform Presentation Award Finalist*

Learning Anatomy in Virtual Environments: Cybersickness and Cognitive Load

- **Austine Wang** (McMaster University)

*Educational Research Platform Presentation Award Finalist*

Development and Pilot Testing of the McMaster Embalming Scale (MES) to Assess Embalming Solutions for Surgical Skills Training

- **Jennifer Weil** (UC Davis School of Medicine and Eastern Virginia Medical School)

*Educational Research Platform Presentation Award Finalist*

Impact of Gross Anatomy Lab and Its Instructional Format on Undergraduate Anatomy Knowledge

12:00 pm – 1:30 pm

## Lunch Break

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12:00 pm – 1:00 pm

*Pennsylvania Avenue Terrace (lobby level)*

## Networking Lunch & Learn: Training Scientists as Educators

*Presenters:*

- **Ahdeah Pajooresh-Ganji** (George Washington University)
- **Debra Herrmann** (George Washington University)

*Box lunch available to the first 60 attendees. First come, first served.*

1:00 pm – 1:30 pm

*Dirksen Room*

## Sponsored Session—Lippincott® Connect Courseware for Anatomy



Wolters Kluwer

*Speakers:*

- **Crystal Taylor**, Senior Acquisitions Editor, Wolters Kluwer
- **Alan J. Detton, PhD**, Columbia University  
Wolters Kluwer presents Lippincott® Connect Courseware, a powerful educational tool for educators and students to help drive success. Lippincott® Connect Courseware provides the opportunity for instructors to assign content to students, which provides valuable feedback while delivering key analytics to educators. Included with Moore's and Grant's titles are 3D Anatomy Tours powered by BioDigital, adaptive assessment in PrepU, videos, and more.

1:30 pm – 3:00 pm

*Salon G*

## Functional Morphology & Biomechanics Platform

*Chair: Nandini Singh* (California State University, Sacramento)

- **Jasmine Croghan** (Oklahoma State University Center for Health Sciences)  
Estimating Bite Force in Three Aquatic Turtle Species with Disparate Bite Strategies: Exploring the Impact of Assumptions on Theoretical Bite Force Modelling and Interpretation

## SATURDAY, MARCH 25

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- **Alec Wilken** (University of Chicago)  
Using Load Path Theory to Understand the Role of Trabecular Bone in Mandibles
- **Christine Harper** (Cooper Medical School of Rowan University)  
Effects of Variability in Triceps Surae Muscle Volumes on Triceps Surae Muscle Forces during Human Walking
- **Steven Lautzenheiser** (University of Tennessee–Knoxville)  
The Influences of Turning on Hip Muscle Forces
- **Jennifer Aguilar** (USC Keck School of Medicine)  
Functional Anatomy of Kangaroo Rats
- **Jacob Fanous** (University of Western Ontario)  
Rate of Rise of Electromyography in the Flexor Hallucis Longus and Brevis during Lower Limb Tasks

1:30 pm – 3:00 pm

*Grand Ballroom Salon I*

### Emerging ‘Non-model’ Organisms and the Future of Biology

*Chair: Ralph Marcucio* (University of California, San Francisco)

- **Licia Selleri** (University of California, San Francisco)  
Don't Pull a Long Face: Identification of New Regulators of Face Outgrowth in Evolution and Congenital Disease
- **Karen Carleton** (University of Maryland)  
Evolution of the Visual System in Cichlids and its Impact on Speciation
- **Scott Edwards** (Harvard University)  
Linking Genomes and Morphological Traits via Phylogenies and Comparative Genomics

1:30 pm – 3:00 pm

*Grand Ballroom Salon II*

### Getting Connected: Nerve Complexity and Neurovascular Interactions in Nervous System Development

*Co-sponsored by Developmental Dynamics*

*Chair: Koji Tamura* (Tohoku University Graduate School of Life Sciences)

- **Megan Williams** (University of Utah)  
Circuit Formation—Wiring up the CNS
- **Marina Venero Galanternik** (University of Utah)  
Perivascular Function in Protecting the Central Nervous System
- **Carrie Leonard** (University of Maryland)  
Transgenic Models Reveal Distinct Origins of Trk-expressing Neuronal Subpopulations in the Murine Trigeminal Ganglion
- **William Srinivasan** (University of Nebraska Medical Center)  
Variations in Source and Pattern of Arterial Supply to the Trigeminal Ganglion with Clinical Relevance

1:30 pm – 3:00 pm

*Grand Ballroom Salon III*

### HOCUS POCUS: Integrating Ultrasound and Anatomy Across the Health Professions

*Chair: William Brooks* (University of Alabama at Birmingham)

- **Kenneth Taylor** (University of Alabama at Birmingham)  
Progressing from Potential to Practical: Modern Applications of Ultrasound in the Education and Practice of Nurse Anesthesia
- **Alycia Markowski** (Northeastern University)  
Homenum Revelio: Revealing the Unseen in Physical Therapy Education and Practice
- **Michael Breunig** (Mayo Clinic)  
Use of Ultrasound in Physician Assistant Education to Support Growing Practice Needs

*Continues on next page.*

# SATURDAY, MARCH 25

3:00pm – 3:30pm

Capitol Ballroom Lobby

## Networking Break & Exhibits

3:30 pm – 4:30 pm

Grand Ballroom Salon III

## Keynote Speaker: Ed Yong

*Sponsored by the  
Association of Anatomy,  
Cell Biology and Neurobiology  
Chairpersons (AACBNC)*



4:30 pm – 6:30 pm

Capitol Ballroom DEF

## Posters and Exhibits

4:30 pm – 4:45 pm & 5:30 pm – 5:45 pm

Salon G

## Lighting Talks

6:30 pm – 8:15 pm

Grand Ballroom Salon II

## Documentary Film Screening— Until The Well Runs Dry: Medicine & the Exploitation of Black Bodies

Please join us for a special viewing of, “Until The Well Runs Dry: Medicine & the Exploitation of Black Bodies”. This 60-minute documentary chronicles the nefarious practice of grave robbing from Black cemeteries in 19th century Richmond, Virginia for the purpose of medical dissection. Present-day attitudes and downstream impact on healthcare in Black communities is revealed through interviews of longtime Richmond residents. The film will be followed by a 30-minute Q&A session with film director and screenwriter, Dr. Shawn O. Utsey and AAA members.



## Your work deserves recognition.

AAA offers over \$650,000 in awards, grants and scholarships.



LEARN MORE





8:30 am – 10:00 am

Salon G

## Neural Development and Regeneration Platform

Chair: **Emily Gilbert** (University of Toronto)

- **Melissa Miller** (Northeastern University)  
Visualizing and Quantifying the Spatiotemporal Expression of Proximodistal Pattern-Establishing Genes in the Regenerating Axolotl Forelimb
- **Timothy Duerr** (Northeastern University)  
*Postdoctoral Platform Presentation Award Finalist*  
Retinoic Acid Breakdown Is Required for Positional Identity Along the Proximodistal Axis of the Regenerating Axolotl Limb
- **Joshua Krech** (The Ohio State University College of Medicine)  
Characterization of *Inhbb*, *Heatr5a*, & *Cyp2s1* Expression in Dorsal Root Ganglia by in Situ Hybridization
- **Mohamed Eladl** (University of Sharjah)  
Nifuroxazide Repurposing for Protection from Diabetes-induced Retinal Injury in Rats: Implication of JAK2/STAT3 Axis
- **Karen Bottenfield** (Boston University Chobanian & Avedisian School of Medicine)  
Propargylcholine to Quantify Newly Synthesized Myelin in the Rhesus Monkey Brain After Cortical Injury
- **Tina Tian** (Emory University School of Medicine)  
Bioluminescent Optogenetics for Studying Sympathetic Axonal Regeneration

8:30 am – 10:00 am

Grand Ballroom Salon I

## Understanding Genetic Regulation of Craniofacial Development in 2023

*Co-sponsored by the Society for Craniofacial Genetics and Developmental Biology (SCGDB)*

Chair: **David Clouthier** (University of Colorado Anschutz Medical Campus)

- **Laura Kerosuo** (National Institute of Dental and Craniofacial Research)  
Multiplexed Insights into how Stemness Forms in the Neural Crest
- **Karen Sears** (UCLA)  
Growth Rate as a Modulator of Tooth Patterning during the Evolutionary Radiation of Bats
- **Craig Albertson** (University of Massachusetts Amherst)  
How to Shape a Face: The Genetic Basis of Cichlid Jaw Shape and Plasticity

8:30 am – 10:00 am

Grand Ballroom Salon II

## Morphological Sciences Award Symposium

*W.M. Cobb Award in Morphological Sciences Lecture featuring 2023 Early-Career Investigator Award Recipient Keiko Meshida*

Chair: **Margaret Hall** (Midwestern University)

- **Keiko Meshida** (Uniformed Services University of the Health Sciences)  
Architecture and Function of Orbitalis and Oblique Eye Muscles in Mammals
- **Katharine Ryan** (Sacred Heart University)  
Variation and Covariation of the Shape and Volume of the Sphenoidal Sinus Among Craniofacial Anatomy
- **Anna Hardin** (Western University of Health Sciences)  
Patterns of Phenotypic and Genetic Correlation in the Jaws, Teeth, and Postcrania of Rhesus Macaques
- **Felippe Prado** (University of Chicago)  
Biomechanics of Pierre Robin Mandibular Distraction Osteogenesis

8:30 am – 10:00 am

Grand Ballroom Salon III

## Education Platform Session #2

Chair: **Cheryl Hill** (University of Missouri-Columbia)



*Continues on next page.*

## SUNDAY, MARCH 26

- **Adam Wilson** (Rush University)  
Pulling Back the Curtain: Exploring Norms and Practices of Anatomy-related Departments in U.S. Medical Schools
- **Tyler Hall** (The Ohio State University)  
Who Is Teaching Anatomy? A Pilot Study from the State of Ohio
- **Adam Taylor** (Lancaster Medical School)  
Dissecting Deep; An Investigation into the Anatomical Knowledge of the US Public
- **Keith Bishop** (Texas Tech University Health Sciences Center)  
Assessing the Impact of Curricular Redesign: Student Performance in a Foundational Anatomy Course with Added Cell Biology and Histology
- **Willow Schanz** (University of Iowa)  
A Survey of Anatomy Educators Reveals Trends in Embryology Training and Curricula in North American Medical Schools
- **Polly Husmann** (Indiana University–Bloomington)  
Is the Sequel Better Than the Original? The Anatomy Education Research Institute (AERI) 2022

10:00 am – 10:30 am

*Capitol Ballroom Lobby***Networking Break and Exhibits**

10:30 am – 11:15 am

*Grand Ballroom Salon I***Annual Members Business Meeting***All AAA Members are encouraged to attend*

11:30 am – 12:30 pm

*Grand Ballroom Salon III***Plenary Speaker:  
Lara A. Thompson,  
University of the  
District of Columbia**

At the Interface of Engineering & Medicine:  
Spearheading Biomedical Engineering  
Research and Educational Initiatives



12:30 pm – 1:15 pm

*Dirksen Room***Sponsored Session—The VH  
Dissector: Integrating Digitally  
Preserved Anatomy**

**Speaker: Jake Shearer**, MS, Product Manager,  
Toltech Clinical Instructor, CU Anschutz School of  
Medicine

How can digitally preserved anatomy bridge the gap between lecture and lab activities? Come see how our complete platform from VR to tablets can support a multi-modal, modern anatomy curriculum of any scale. We will highlight our new prosection collection with 100+ virtual specimens from Monash University, explore interactive cross-sectional anatomy for ultrasound education, and demonstrate integration with Canvas that can easily extend to any learning management system.

*Lunch available for the first 40 attendees.  
First come, first served.*

12:30 pm – 2:00 pm

**Lunch Break**

12:30 pm – 1:30 pm

*Pennsylvania Avenue Terrace (lobby level)***Lunch & Learn—Meet the Editors: Learn  
How to Publish, Review Manuscripts,  
and Communicate your Research***Presenters:*

- **Paul Trainor**, Editor-in-Chief,  
Developmental Dynamics
- **Heather F. Smith**, Editor-in-Chief,  
The Anatomical Record
- **Jason Organ**, Editor-in-Chief,  
Anatomical Sciences Education

*Box lunch available to the first 60 attendees.  
First come, first served.*

2:00 pm – 3:30 pm

*Grand Ballroom Salon I***Cell Biology Award  
Symposium**

*R.R. Bensley Award in Cell Biology  
Lecture featuring 2023 Early-Career  
Investigator Award Recipient Samantha Lewis*



*Chair:* **Lisa Taneyhill** (University of Maryland)

- **Samantha Lewis** (University of California, Berkeley)  
Mitochondrial Heterogeneity across Biological Scales
- **Anna Lysakowski** (University of Illinois at Chicago)  
Inner Ear Mitochondria
- **Thomas Heinbockel** (Howard University College of Medicine)  
Cannabinoid Receptor-Mediated Synaptic Signaling and Neural Plasticity in Central Olfactory Neurons
- **Patrisia Mattioli** (Philadelphia College of Osteopathic Medicine)  
Chronic Obstructive Pulmonary Diseased Human Lung Fibroblasts Increase Extracellular Matrix Elastin Incorporation in Response to Inhibition of MMP-12
- **Abdo Jurjus** (American University of Beirut)  
Cyclosporine a and Cyclophilin a with Probiotics in the Management of Inflammatory Bowel Diseases in Syndecan-1 Knock out Mice

**2:00 pm – 3:30 pm**

*Grand Ballroom Salon II*

## Evolutionary Assembly of the Vertebrate Head: Insights from Embryos and Fossils

*Chairs:* **Tetsuto Miyashita** (Canadian Museum of Nature) and **Matt Vickaryous** (University of Guelph)

- **Patricia Hernandez** (George Washington University)  
The Role of Historical and Developmental Contingency in the Development of the Head
- **Tetsuto Miyashita** (Canadian Museum of Nature)  
The Head, Heart, and Fins at the Origin of Jawed Vertebrates
- **Andrew Gillis** (Marine Biological Laboratory)  
Gill Arch Serial Homology and Origin of the Jawed Vertebrate Body Plan

**2:00 pm – 3:30 pm**

*Grand Ballroom Salon III*

## Health Professions Education (HPE) Scholarship: The Where, What, and How

*Chair:* **Nicole DeVaul** (George Washington University School of Medicine & Health Sciences)

- **Lauren Maggio** (Uniformed Services University School of Medicine)  
A Framework for Getting Your Work Published and Promoted
- **H. Carrie Chen** (Georgetown University School of Medicine)  
What Gets You Published and NOT Published in HPE
- **Anthony Artino** (George Washington University School of Medicine & Health Sciences)  
Behind the Scenes: Your Paper, from Submission to Publication

**3:30 pm – 4:00 pm**

*Capitol Ballroom Lobby*

## Networking Break and Exhibits

**4:00 pm – 5:30 pm**

*Salon G*

## Cellular, Developmental, Reproductive Biology Platform (RepoDevo)

*Chair:* **Kristin Artinger** (University of Minnesota)

- **Leah Killing** (University of Western Ontario)  
*Langman Graduate Student Platform Presentation Award Finalist*  
The Importance of Chemokine-Mediated Signaling for Human Placental Extravillous Trophoblast Invasion
- **Erin Biggar** (University of Western Ontario)  
*Langman Graduate Student Platform Presentation Award Finalist*  
Sex-specific Effect of Maternal Immune Activation on Gene Expression in the Rat Placenta

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## SUNDAY, MARCH 26

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- **Cassandra White** (Joan C. Edwards School of Medicine)  
New Insights into the Role of the IGF-1 Pathway in Diet-induced Bone Elongation
- **Marian Ros** (Instituto de Biomedicina y Biotecnología de Cantabria)  
Lmx1b Transcriptional Regulation in Limb Development
- **Xiaolei Zhao** (UTHealth at Houston)  
FGF Functions via Yap/Taz in Neural Crest-derived Suture Mesenchymal Stem Cells
- **Emma Retzlaff** (SUNY Upstate Medical University)  
Examining the Role of Mechanical Forces in Heterotaxy Syndrome

4:00 pm – 5:30 pm

*Grand Ballroom Salon I*

### The Great Unknown Potentials: Outside the Academic Career Box

*Chairs:* **Lisa Lee** (University of Colorado Anschutz Medical Campus) and **Laura J. Weinkle** (Anatomist Toltech)

- **Rossana Blanco Long** (Medidata Solutions)  
Master of what? Leveraging a Master's Education to Break into Medtech and Digital Transformation
- **Yasmeen Nkrumah-Elie** (ChromaDex)  
I Got My PhD, Now What? Pivoting from Bench Research and Academia to Private Sector Biotech
- **Nathan O'Connor** (MBF Biosciences)  
Re-envisioning the Meaning of PhD as an Entrepreneur or an Industry Leader

4:00 pm – 5:30 pm

*Grand Ballroom Salon II*

### Pe(TA)gogy: High-Impact, Low-Stress Methods For Training Teaching Assistants in Pedagogy

*Chair:* **Andrew S. Cale** (Indiana University School of Medicine, Indianapolis)

- **Andrew S. Cale** (Indiana University School of Medicine, Indianapolis)

Teaching is Universal: The Importance of Pedagogical Training for Anatomy TAs

- **Danielle F. Royer** (University of Colorado Anschutz Medical Campus)  
Just-In-Time Training for Lab TAs: Benefits of Micro Learning and Immediate Application For TAs, Course Directors, and Students
- **Mark Nielsen** (University of Utah)  
Mentor-Apprentice Program—Training Undergraduate Teaching Assistants in a Large Undergraduate Anatomy Lab

4:00 pm – 5:30 pm

*Grand Ballroom Salon III*

### Breathing at the Interface of Anatomy and Physiology

*Co-sponsored by The Anatomical Record*

*Chairs:* **Katherine Yutzey** (Cincinnati Children's Hospital Medical Center) and **Jeffrey T. Laitman** (Icahn School of Medicine at Mount Sinai)

- **Jeffrey T Laitman** (Icahn School of Medicine at Mount Sinai)  
The Remarkable, Developmental Changes in the Human Upper Respiratory Tract
- **Maj Janna Dahl** (University of Utah and University of Western Australia)  
Fetal Breathing Patterns with Congenital Diaphragmatic Hernia and Tracheal Occlusion
- **Jean-Pierre Timmermans** (University of Antwerp)  
The Pulmonary Neuroepithelial Body Microenvironment: A Complex Multifunctional Unit in the Airway Epithelium

5:30 pm – 7:30 pm

*Capitol Ballroom DEF*

### Posters and Exhibits

5:30 pm – 5:45 pm & 6:30 pm – 6:45 pm

*Salon G*

### Lighting Talks

# MONDAY, MARCH 27

8:30 am – 10:00 am

*Grand Ballroom Salon I*

## Developmental Biology Award Symposium

*H.W. Mossman Award in Developmental Biology Lecture featuring 2023 Early-Career Investigator Award Recipient Rebecca Green*



*Chair: Christopher Percival* (Stony Brook University)

- **Rebecca Green** (University of Pittsburgh)  
Imaging to Understand Genotype-phenotype Relationships in Facial Development
- **Susan Motch Perrine** (The Pennsylvania State University)  
Cranial Cartilage Defects in the Fgfr3Y367C/+ Mouse Model of Achondroplasia
- **Alyssa Moore** (University of Western Ontario)  
*Langman Graduate Student Platform Presentation Award Finalist*  
Morphological and Histological Examinations of the Effects of a Neural Crest-specific Connexin43 Knockout in the Neonatal Mouse Skull
- **Ruth-Love Yeboah** (Loma Linda University)  
Spatial and Disparate Regulation of Gdf5-Associated Regulatory Region by Fox, Sox and Lmx1B Transcription Factors
- **Brittany Wilson** (Rush University Medical Center)  
*Postdoctoral Platform Presentation Award Finalist*  
Mineral Metabolism Markers in a Pig Model of Preterm Birth Mimic Clinical Findings

8:30 am – 10:00 am

*Salon G*

## Boneheads & Brainiacs: Exploring Skull-Brain Interactions

*Chair: Warren Grayson* (Johns Hopkins University School of Medicine)

- **Warren Grayson** (Johns Hopkins University School of Medicine)  
Neural Responses to Calvarial Bone Injury

- **Gerd Meyer zu Hörste** (University of Munster)  
Understanding B Cell Immunology in the Meninges
- **Kate Lesciotto** (University of North Texas Health Science Center)  
Brains, Skulls, and an Unexpected Twist in an Experimental Model

8:30 am – 10:00 am

*Grand Ballroom Salon III*

## Education Platform Session #3

*Chair: Haley O'Brien* (University of Arizona Health Sciences)

- **Izuchukwu Okafor** (Nnamdi Azikiwe University)  
Cadaver-dissection-related Stress Is Linked to Students' Learning Conditions: A Cross-sectional Study of Students and Graduates from Sub-Saharan Africa
- **Mark Abbott** (The Ohio State University)  
Cognitive Load and Motivational Differences Between Neurophobic and Non-neurophobic Students Learning Neuroanatomy
- **Gurvinder Kaur** (Texas Tech University Health Sciences Center)  
How a Medical Education Master's Program Promotes Student Resiliency and Success in Medical School
- **Megan Holmes** (Duke School of Medicine)  
Clinical Anatomy as Early Collaborative Learning for Health Professions Students
- **Michael Pascoe** (University of Colorado Anschutz Medical Campus)  
Feasibility of a Collaborative Pelvic Anatomy Lab for Gynecology Residents and the Effects on Confidence and Medical Knowledge
- **Hannah Herriott** (Regis University)  
What Do Fourth-Year Medical Students Gain from Facilitating Anatomical IPE Sessions?

*Continues on next page.*

# MONDAY, MARCH 27

8:30 am – 10:00 am

*Grand Ballroom Salon II*

## The Anatomy of Letter Writing for Promotion

*Chairs:* **Eustathia Lela Giannaris** (UMass Chan Medical School) and **Rebecca Pratt** (Oakland University William Beaumont School of Medicine)

*Panelists:*

- **Valerie DeLeon** (University of Florida)
- **Wade Grow** (Midwestern University)
- **Yolanda Haywood** (George Washington University)

10:15 am – 12:15 pm

*Capitol Ballroom DEF*

## Posters

10:15 am – 10:30 am & 11:15 am – 11:30 am

*Salon G*

## Lighting Talks

10:15 am – 1:30 pm

*Capitol Foyer*

## Meeting the Funders

12:00 pm – 1:30 pm

## Lunch Break

12:15 pm – 1:15 pm

*Russel/Hart Room*

## Networking Lunch & Learn

### New Face of Academia—A Skills Fair for the Modern Anatomist

*Sponsored by the Professional Development Committee*

*Facilitators:*

- **Aiden Ruth**, Saint Louis University
- **Darren Hoffmann**, University of Iowa

*Box lunch available to the first 60 attendees. First come, first served.*

1:30 pm – 3:00 pm

*Salon G*

## Comparative Morphology Platform

*Chair:* **Callum Ross** (University of Chicago)

- **Kaleb Sellers** (University of Chicago)  
*Postdoctoral Platform Presentation Award Finalist*  
The Effects of Skull Flattening on Crocodylian Cranial Biomechanics
- **Joy Reidenberg** (Icahn School of Medicine at Mount Sinai)  
Whale Nasal Plug Anatomy Determines Blow Shape
- **Rebecca Shepherd** (Lancaster University)  
Sperm Whale, Elephant or Hippo? Using Raman Spectroscopy as a Non-destructive Method to Identify Unknown Ivory Samples
- **Emily Naylor** (James Madison University)  
Does Variation in Gecko Toe Pad and Claw Morphology Reflect Adaptive Evolution to Microhabitat?
- **Elizabeth Brainerd** (Brown University)  
Cheloniid Sea Turtles Use a Novel “Shell Pump” Mechanism for Lung Ventilation
- **Kristen Ramirez** (NYU Grossman School of Medicine)  
Comparison of Articular Facet and Enteseal Angular Morphology to Identify Functional Signals of the Elbow Joint in Primates

1:30 pm – 3:00 pm

*Grand Ballroom Salon I*

## Tendon-Bone: Critical Interactions for Musculoskeletal Development, Homeostasis, and Disease

*Chairs:* **David Ornitz** (Washington University School of Medicine) and **Marian A. Ros** (Instituto de Biomedicina y Biotecnología de Cantabria)

- **Jenna Galloway** (Massachusetts General Hospital)  
Molecular and Mechanical Regulation of Tendon-bone Attachment Regeneration
- **Megan Killian** (University of Michigan Medical School)  
Growth and Mechanical Adaptation of the Tendon-bone Enthesis
- **Elazar Zelzer** (Weizmann Institute of Science)  
The Development and Repair of Bone-to-tendon Attachment

1:30 pm – 3:00 pm

*Grand Ballroom Salon II*

## Neurobiology Award Symposium

*C.J. Herrick Award in Neuroanatomy Lecture featuring 2023 Early-Career Investigator Award Recipient Yvette Fisher*



*Chair: Neus Martínez-Abadías* (Universitat de Barcelona)

- **Yvette Fisher** (University of California, Berkeley)  
Flexibility of Visual Input to the *Drosophila* Compass Network
- **Jackson Griffiths** (Northeastern University)  
*Langman Graduate Student Platform Presentation Award Finalist*  
RNA Sequencing Analysis and Multiplexed Imaging of Secreted Growth Factors in Dorsal Root Ganglia Neurons during Axolotl Limb Regeneration
- **Rhiannon Robinson** (Boston University Chobanian & Avedisian School of Medicine)  
How Does Postmortem Interval and Other Processing Variables Impact Myelin Integrity in Human and Non-human Primate Brain Tissue?
- **Hannah Martin** (University of Western Ontario)

Interrogating the Relationship Between Vascular Stress and Microglial Activation in the APP/PS1 Transgenic Rat Model of Alzheimer's Disease

- **Carney Flinn** (Virginia Tech Carilion School of Medicine)  
Distinct Organization and Activation of Brainstem Sensory and Motor Neurons Essential for Suckling, Feeding, and Swallowing

1:30 pm – 3:00 pm

*Grand Ballroom Salon III*

## Advancing Access and Equity in Anatomy

*Chairs: Julia Jordan* (University of New Mexico) and **Rebecca Hartley** (University of New Mexico School of Medicine)

- **Julie Jordan** (University of New Mexico)  
Anatomy Curricular Changes Through the Lens of Universal Design
- **Kristina H. Petersen** (New York Medical College)  
Identifying and Mitigating Disability-related Barriers through Inclusive Instruction
- **William Eidtson** (Geisel School of Medicine at Dartmouth College)  
Supporting Diverse Students with Disabilities

3:30 pm – 5:00 pm

*Salon G*

## Education Platform Session #4

*Chair: Jennifer Dennis* (Kansas City University)

- **Amit Nehru** (McMaster University)  
Investigating the Effects of Model Size on Anatomy Learning
- **R Claire Aland** (The University of Queensland)  
Can Drawing Assist Students Learning Visual Literacy Skills in Histology with Online Teaching?

*Continues on next page.*

# MONDAY, MARCH 27

MONDAY, MARCH 27

- **Katelyn Wood** (University of Western Ontario)  
Remote Proctoring: Testing the Limits of Student Performance, a QI Study
- **Victoria Gomez** (Indiana School of Medicine)  
Changing Career Trajectory: Understanding the Impact of an Undergraduate Human Anatomy Course
- **Kellie Huxel Bliven** (A.T. Still University Arizona School of Health Sciences)  
Using Eye-tracking to Measure the Impact of Self-regulation Skills on Reading Comprehension of Anatomy E-textbooks
- **Kristina Marrelli** (University of Guelph)  
The Influence of Anatomy Assessment Modality and Visuospatial Ability on Non-medical, Undergraduate

3:30 pm – 5:00 pm

*Grand Ballroom Salon I*

## Skeletal Muscle: Regeneration, Re-animation, and Recovery

*Chair:* **Patricia Ward** (Emory University)

- **Amy Moore** (The Ohio State University)  
The Power of Nerve Transfers to Restore Upper and Lower Extremity Function
- **Fatma Inanici** (University of Washington)  
Restoration of Motor Function via Transcutaneous Spinal Cord Stimulation in Tetraplegia
- **Jarrod Call** (University of Georgia)  
Skeletal Muscle Repair and Regeneration: Contractile-metabolic Consequences of Common and Traumatic Injuries

3:30 pm – 5:00 pm

*Grand Ballroom Salon II*

## Developing the Scientific Workforce: Current Trends and Future Opportunities

*Chair:* **Kirsten Brown** (George Washington University School of Medicine & Health Sciences)

- **Alison Hall** (George Washington University School of Medicine & Health Sciences)  
Diversifying the Scientific Workforce: Institutional Support for Graduate Students, Postdocs, and Early Career Faculty
- **Marcelo Vincés** (Northwestern University)  
Supporting Underrepresented Students in STEM: Mentoring and Advising Undergraduate Students
- **Eve Boyle** (Howard University)  
Advocating for Diversity in STEM: Outreach, Education, and Policy Considerations

5:15 pm – 5:45 pm

*Grand Ballroom Salon I*

## Henry Gray Scientific Award Lecture

- **Carol Ward** (University of Missouri–Columbia)



5:45 pm – 6:15 pm

*Grand Ballroom Salon I*

## Henry Gray Distinguished Educator Award Lecture

- **Michael Hortsch** (University of Michigan)



6:15 pm – 6:30 pm

*Grand Ballroom Salon I*

## A.J. Ladman Exemplary Service Award Lecture

- **Kurt Albertine** (University of Utah)



7:30 pm – 9:30 pm

*Grand Ballroom Salon III*

## Closing Awards Ceremony Dinner\*

*\*Pre-purchased tickets only*



# Governance Meetings \*Invitation Only

## THURSDAY, MARCH 23

### Board of Directors Meeting\*

1:15 pm – 5:30 pm • Salon G

## FRIDAY, MARCH 24

### Board of Directors Meeting\*

8:30 am – 5:00 pm • Salon G

## SATURDAY, MARCH 25

### Committee Chairs Meeting\*

7:30 am – 8:30 am • Commerce Room

### Committee for Early-Career Anatomists Meeting\*

12:00 pm – 1:00 pm • Rayburn Room

### Professional Development Committee Meeting\*

12:00 pm – 1:00 pm • Treasury Room

### Educational Affairs Committee Meeting\*

12:00 pm – 1:00 pm • Commerce Room

## SUNDAY, MARCH 26

### ASE Editorial Board Meeting\*

7:00 am – 8:30 am • Commerce Room

### Annual Members Business Meeting

10:30 am – 11:15 am • Grand Ballroom  
Salon I

### Ambassador Committee Meeting\*

12:00 pm – 1:00 pm • Treasury Room

### Diversity, Equity and Inclusion Committee\*

12:00 pm – 1:00 pm • Commerce Room

### Exhibitors Meeting\*

4:00 pm – 4:30 pm • Dirksen Room

### Fellows Reception

*All AAA Fellows are invited to attend*

7:30 pm – 8:30 pm • Pennsylvania Avenue  
Terrace (lobby level)

## MONDAY, MARCH 27

### Publications Committee\*

12:15 pm – 1:15 pm • Treasury Room

### Committee for Early-Career Anatomists Meeting\*

12:15 pm – 1:30 pm • Rayburn Room

**Be sure to visit  
Anatomy Central  
(near Registration)  
during exhibit hours.**



- Learn more about membership, awards, Anatomy Scholars Program, and all AAA has to offer!
- Meet your New Executive Director—Christine Ross, CCE, MBA, MS
- Talk with representatives from the Ambassador Committee and the Diversity, Equity and Inclusion Committee
- Release your inner artist—Design and create your own Anatomy Button

# Poster Sessions

Take time to visit the posters in the Capitol Ballroom DEF.

Virtual posters are also available in the online program and app. Go to the app for a detailed list of all the posters including abstracts, poster number, authors, and title.

AAA has separate poster presentation times for odd and even posters.

Odd poster #s: first hour

Even poster #s: second hour

## SATURDAY, MARCH 25

Display Hours: 10:00 am – 6:30 pm

Presentation Time: 4:30 pm – 6:30 pm

Odd poster #s: 4:30 pm – 5:30 pm

Even poster #s: 5:30 pm – 6:30 pm

- Anatomical Pattern Identification
- Anatomical Variations
- Anatomy
- Anatomy Education
- Anatomy Education: Clinical Based Approaches
- Functional Anatomy & Biomechanics
- Bones, Cartilage & Teeth
- Cardiovascular Biology

## SUNDAY, MARCH 26

Display Hours: 10:00 am – 7:30 pm

Presentation Time: 5:30 pm – 6:30 pm

Odd poster #s: 5:30 pm – 6:30 pm

Even poster #s: 6:30 pm – 7:30 pm

- Anatomy Education: Teaching Methods & Innovations
- Anatomy Education: Undergraduate Education
- Ethics
- Outreach
- Urogenital
- Development & Growth
- Evolution and Comparative Anatomy
- Form, Function & Morphology
- Imaging: Anatomy
- Imaging: Technology & Methods
- Muscle
- Neurobiology



**Follow us on Twitter**

**@anatomyorg and use the hashtag  
#anatomy23**

## MONDAY, MARCH 27

**Display Hours:** 8:00 AM – 1:00 pm

**Presentation Time:** 10:15 am – 12:15 am

**Odd poster #s:** 10:15 am – 11:15 am

**Even poster #s:** 11:15 am – 12:15 am

- Anatomy Education: Assessment, Curriculum & Mentoring
- Anatomy Education: Technology-Assisted Learning
- Animal Models
- Form & Variation
- Gastrointestinal
- Biological Anthropology
- Cell Biology
- Stem Cells, Tissue Engineering & Regeneration
- Vertebrate Paleontology
- Late Submission Posters

## LAST SUBMISSION POSTER TOPICS

- Anatomy
- Animal Models
- Gastrointestinal
- Respiratory
- Urogenital
- Anatomy Education
- Biological Anthropology
- Bones, Cartilage & Teeth
- Cell Biology
- Development & Growth
- Evolution and Comparative Anatomy
- Form, Function & Morphology
- Form & Variation
- Functional Anatomy & Biomechanics
- Imaging
- Muscle
- Neurobiology

## Anatomy Scholars

### Program

*Increasing the retention of Underrepresented Minorities in STEM academia.*

### About the program:

ASP applicants should be recently appointed faculty or individuals transitioning from either a terminal degree or a postdoctoral fellowship to an independent position as a faculty member in an anatomy-related field. A new cohort will be selected yearly from the pool of applicants. Scholars will participate in a two year program of professional development activities that includes:

1. Asynchronous learning, online curriculum addressing the tenets of faculty life: Service, Teaching, and Research
2. A sustainable and formal mentoring program to help guide Scholars during their transition into academic positions
3. Informal virtual meetings between Scholars, designed to cultivate a diverse peer-support network required for successful STEM careers
4. An Annual Retreat in conjunction with a meeting, with registration and travel support provided by AAA

If you have questions,  
please contact us at  
[info@anatomy.org](mailto:info@anatomy.org)

Learn more at  
[anatomy.org/asp](http://anatomy.org/asp)



# Exhibitors

Thank you to our exhibitors for supporting AAA and our inaugural meeting. Be sure to visit with them during the following date/times.

## SATURDAY, MARCH 25

10:00 am – 10:30 am

Networking Break and Exhibits

3:00 pm – 3:30 pm

Networking Break and Exhibits

4:30 pm – 6:30 pm

Poster Sessions and Exhibits

## SUNDAY, MARCH 26

10:00 am – 10:30 am

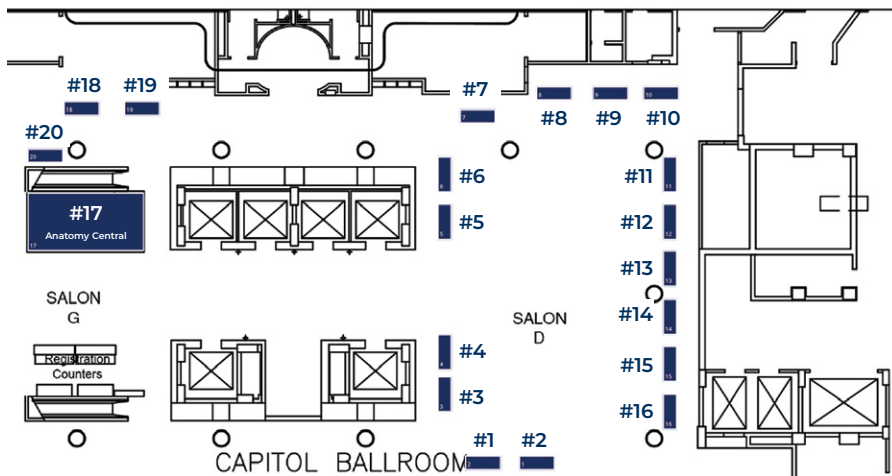
Networking Break and Exhibits

3:30 pm – 4:00 pm

Networking Break and Exhibits

5:30 pm – 7:30 pm

Poster Sessions and Exhibits



## EXHIBITOR LIST BY BOOTH #

Anatamage, Inc. ....1	Federation of American Societies for Experimental Biology ..... 10
Medivis .....2	3D Organon ..... 11
Green Solutions Group LLC .....3	Fascia Research Society ..... 12
Elsevier .....4	Anatomic Excellence, LLC..... 13
American Association of Clinical Anatomists.....5	Touch of Life Technologies..... 14 & 15
Primal Pictures .....6	Wolters Kluwer ..... 16
Mopec.....7	Developmental Dynamics..... 18
Siemens Healthineers .....8	The Anatomical Record ..... 19
International Medical Quality Improvement Systems (IMQIS).....9	Anatomical Sciences Education..... 20

# Exhibitor Descriptions

(Alphabetical list)

## **3D Organon**

### **Booth #11**

3D Organon / Medis Media PTY LTD  
Unit 11, 76 Township Drive, Burleigh Heads  
Queensland, Australia 4220  
<https://www.3dorganon.com/>

3D Organon is the world's leading XR medical anatomy platform. 3D Organon includes over 12,000 anatomical structures across 15 body systems, showcasing features such as the Medverse, the educational ultrasound VR simulator, the sectioning tool, cadaveric images, hand tracking, body actions, high-detailed microscopic models, and new futuristic environments among others.

## **American Association of Clinical Anatomists**

### **Booth #5**

PO Box 2945  
LaGrange, Georgia 30241  
<http://clinical-anatomy.org/>

The American Association of Clinical Anatomists advances the science and art of clinical anatomy. It encourages research and publication in the field and maintaining high standards in the teaching of anatomy. Clinical anatomy is defined as anatomy in all its aspects—gross, histologic, developmental and neurologic as applied to clinical practice, the application of anatomic principles to the solution of clinical problems and/or the application of clinical observations to expand anatomic knowledge.

## **Anatomage, Inc.**

### **Booth #1**

3350 Thomas Rd., Suite 150  
Santa Clara, California 95054  
<http://www.anatomage.com/>

Anatomage is a medical company, driving innovation through advanced solutions in hospitals and educational institutions. Our digital cadaver table, the Anatomage Table, allows a hands-on approach to learning the human body through unique visualization options, dissection tools, and quiz mode features, making it a strong asset to any anatomy class.

## **Anatomic Excellence, LLC**

### **Booth #13**

22 Angel Oaks Drive  
Savannah, Georgia 31410  
<http://www.anatomicexcellence.com>

Anatomic Excellence, LLC is the exclusive, full range agent for von Hagens Plastinated Human Specimens in the USA & Canada. We work with our customers to help them establish a collection of ethically prepared specimens that meet the anatomical needs of your program and enhances learning opportunities for your students.

## **Anatomical Sciences Education**

### **Booth #20**

<http://asejournal.com>

Anatomical Sciences Education is an official publication of the American Association for Anatomy. ASE is a peer-reviewed international journal for the exchange of ideas, opinions, and research in anatomy education covering undergraduate to post-graduate levels. Submissions on research, technology, ethics, teaching, assessments, and innovation in anatomy education are welcomed.

## Developmental Dynamics

### Booth #18

<https://anatomypubs.onlinelibrary.wiley.com/journal/10970177>

Developmental Dynamics is an official publication of the American Association for Anatomy. This peer reviewed journal provides an international forum for publishing novel discoveries, using any model system, that advances our understanding of development, morphology, form and function, evolution, disease, stem cells, repair, and regeneration.

## Elsevier

### Booth #4

1800 JFK Blvd., Suite 1600  
Philadelphia, Pennsylvania 19103  
<http://elsevier.com>

Every day, research and health professionals dedicate themselves to improving outcomes for communities, patients and society at large. Elsevier is committed to quality and innovation to improve the value we deliver to researchers, research leaders, healthcare professionals and educators in an open, inclusive, and collaborative manner.

## Fascia Research Society

### Booth #12

16192 Coastal Hwy.  
Lewes, Delaware 19958  
<http://fasciaresearchsociety.org/>

The Fascia Research Society (FRS) was established as a membership organization to facilitate, encourage and support the dialogue and collaboration between clinicians, researchers and academicians, in order to further our understanding of the properties and functions of fascia.

## Federation of American Societies for Experimental Biology

### Booth #10

6120 Executive Blvd., Suite 230  
Rockville, Maryland 20852  
[www.faseb.org](http://www.faseb.org)

FASEB is a federation of 28 scientific societies, representing 115,000 researchers. Its mission is to advance health and well-being by promoting research and education

in the life sciences. FASEB carries out its mission by offering scientific conferences, journals, data management resources, and other programs of interest to societies and researchers.

## Green Solutions Group LLC

### Booth #3

2085 Gold Knob Road  
Salisbury, North Carolina 28146  
<http://www.gogreensolutionsgroup.com>

Green Solutions Group, LLC (GSG) has developed the only non-toxic tissue preservative/embalming solutions, GreenMBalm™ and GreenTissueFix™. These products will enhance the way surgical and medical training is taught, providing a more life like specimen, in a safer environment.

## International Medical Quality Improvement Systems (IMQIS)

### Booth #9

11931 Wickchester, Suite 200  
Houston, Texas 77043  
<http://www.digitalscope.org>

IMQIS was formed in 2011. The company developed DigitalScope®. DigitalScope® is a technology for delivering whole slide digital images to thousands of concurrent users over the internet. The technology provides proficiency testing programs, and innovative, low cost graduate medical education programs to customers throughout the world.

## Medivis

### Booth #2

920 Broadway, FL 16  
New York, New York 10010  
<http://www.medivis.com>

Medivis is building the future of immersive health education. We're harnessing the power of augmented reality and spatial computing to build software that improves learning outcomes and student engagement while advancing core missions of innovative institutions.

## Mopec

### Booth #7

800 Tech Row  
Madison Heights, Michigan 48071  
<http://www.mopec.com>

Mopec provides American-made equipment and laboratory products to the pathology, histology, necropsy, autopsy and mortuary industries. Our reputation, which continues to grow worldwide, is built on 30 years of superior customer service specializing in consultation and customization.

## Primal Pictures

### Booth #6

Informa Pharma Intelligence  
605 3rd Avenue, 20th Floor  
New York, New York 10158  
<https://www.primalpictures.com/>

Powering Anatomy.tv, Primal Pictures is the only complete and medically accurate digital human 3D model based on real body scans and imaging data. For more than 30 years, Primal's award-winning software has been used by millions of educators, students, and practitioners in over 1,500 institutions across more than 150 countries.

## Siemens Healthineers

### Booth #8

26305 N 166th Ave.  
Surprise, Arizona 85387  
<https://www.siemens-healthineers.com/>

Siemens Healthineers is a leading medtech company with over 125 years of experience. With our strengths in patient twinning, precision therapy, as well as digital, data, and artificial intelligence (AI), we are well positioned to take on the biggest challenges in healthcare.

## The Anatomical Record

### Booth #19

<http://www.wileyonlinelibrary.com/ar>  
The Anatomical Record: Advances in Integrative Anatomy and Evolutionary Biology, an official publication of the American Association for Anatomy, publishes new discoveries in the morphological aspects of molecular, cellular, systems, and evolutionary biology. The journal focuses on major new findings in the anatomical consequences of gene disruption, activation, or over expression upon cell, tissue, or organ architecture and also recognizes the importance of descriptive studies in contemporary research, particularly when framed in the context of experimental models or questions.

## Touch of Life Technologies

### Booth #14 & #15

12635 E Montview Blvd., Suite 350  
Aurora, Colorado 80045  
<http://www.toltech.net>

Learning anatomy isn't easy. But with Toltech's comprehensive, immersive platform that features true-to-life visualizations and expert-level support, anatomy education becomes more accessible, impactful, and effective. Stop by to experience our real anatomy and clinical imaging solutions in XR and on the Sectra Table.

## Wolters Kluwer

### Booth #16

2001 Market Street  
Philadelphia, Pennsylvania 19103  
<http://www.shop.lww.com>

Wolters Kluwer provides trusted clinical technology and evidence-based solutions that engage clinicians, patients, researchers, students, and the next generation of healthcare providers. With a focus on clinical effectiveness, research and learning, safety and surveillance, and interoperability and data intelligence, our solutions drive effective decision-making and consistent outcomes.







# Notes

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## Want to join the American Association for Anatomy?

The American Association for Anatomy (AAA) is a community of peers – educators, researchers, and students of the anatomical sciences and anatomy-related fields – that offers support and collaboration to fellow members, future members, as well as healthcare and allied professions.

Learn more at [anatomy.org/membership](https://anatomy.org/membership)  
or scan the QR code.



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