



American Society for Matrix Biology

2018 | BIENNIAL  
MEETING

OCTOBER 14-17, 2018

Red Rock

CASINO RESORT SPA  
LAS VEGAS, NV



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information,  
visit  
**ASMB.net**



American Society for Matrix Biology

2018 BIENNIAL MEETING

OCTOBER 14-17, 2018

The American Society for Matrix Biology (ASMB) is pleased to announce its 2018 Biennial Meeting, **“ECM Microenvironments in Disease, Aging, and Regeneration.”** The conference will be held in Las Vegas, Nevada USA on October 14-17, 2018. The ASMB meeting represents a unique opportunity for scientists, biomedical engineers, and medical professionals involved in research, clinical, and applied disciplines related to matrix biology to meet, discuss, learn, and network.

### Meeting Location

#### Red Rock Canyon, Las Vegas, Nevada

Warm and sunny Nevada! The Red Rock Canyon area of Nevada offers beautiful vistas and many opportunities for outdoor excursions. It is the perfect destination for a mid-October meeting. The conference hotel, the Red Rock Resort, is situated 30 minutes from the airport and 20 minutes from the entertainment district of Las Vegas with complimentary shuttles to both. The hotel offers many entertainment and dining options at all price points, while the meeting space is comfortably located away from distraction with only breathtaking views of the Red Rock Canyon.

For information about the location, shuttle service, or travel, visit the ASMB meeting website, local area tab:

<https://asmb.memberclicks.net/local-area>

### Accommodations

Accommodations will be provided by the Red Rock Casino Resort & Spa.

#### Red Rock Casino Resort & Spa

11011 W Charleston Blvd  
Las Vegas, NV 89135  
(702) 797-7777

<https://redrock.sclv.com/>

Discounted group rates are available:

\$179 Single/double

\$143 Student rate\*

\* Limited availability—must provide current student ID at check-in.

Book your hotel room online through the meeting website ([www.asmb.net](http://www.asmb.net)) by September 13, 2018 to receive the special group rates.

### ASMB Banquet

Tuesday, October 16, 7:00 pm

ASMB has reserved the Crimson Room at the Red Rock Resort for this traditional Tuesday evening event. Purchase a ticket and join colleagues for a fun filled evening of music and food. **Reserve your banquet ticket when you register for the meeting.**

### Abstracts and Posters

All participants are highly encouraged, but not required, to submit an abstract.

Online abstract submissions will be accepted **March through June 25, 2018.**

You must register for the meeting prior to submitting an abstract. There is a \$30 USD abstract submission fee for NON-members (\$50 fee for non-member, late breaking submissions.) Abstracts will be reviewed and selected as either Poster Presentations or as Selected Talks within the Concurrent Sessions. Accepted abstracts will be notified in late July with logistical details. Late breaking abstracts will be accepted July 31- August 18, 2018 and will be considered for Poster Presentations only. To submit an abstract, register online at [www.asmb.net](http://www.asmb.net) and then follow the link to abstract submission in your registration receipt.

### Membership

Membership in ASMB is open to individuals in all fields related to matrix biology. Please see the society website for more information ([www.asmb.net](http://www.asmb.net)).

**Take advantage of the meeting registration discount and waived abstract fee offered to members and join today!**

### Conference Organizer

**Organizing Committee Chair:** Lynn Sakai, Shriners Hospital for Children and Oregon Health & Science University

### Special Interest/Trainee-Led Sessions

Again this year, ASMB is pleased to offer programming opportunities for trainees. Three Special Interest Sessions have been reserved for trainees to program and lead. Visit the ASMB meeting website for a full Request for Proposals and timeline to apply. Trainee participation is welcome and encouraged at the biennial meeting!

### 2018 Travel Awards

#### Student or Post-Doctoral Travel Awards:

Eligible candidates may apply for Student Travel Awards during the abstract submission process by checking the appropriate box. Applicants must be members of ASMB. You will need to submit a packet to the ASMB business office, including a CV and letter of recommendation from a member/sponsor. Selections will be made during the abstract review period and notification of travel awards will be sent by late-August 2018. Minority travel awards are also available during the abstract submission process.

New this year, the Histochemical Society is offering travel awards through the abstract submission system. Be sure to apply for these great travel opportunities!

### ASMB Award Winners Announced!

These 2018 awardees will be recognized at the meeting:

- **Senior Investigator Award Winner:** Jean Schwarzbauer, Princeton University
- **Junior Investigator Award Winner:** Alexandra Naba, University of Illinois in Chicago
- **Iozzo Award Winner:** Rachel Lennon, University of Manchester
- **Founders Award:** Vincent Fiore, The Rockefeller University

### Special Needs

ASMB does not discriminate on the basis of disabilities. If you require services or auxiliary aids mentioned in the Americans with Disabilities Act in order to fully participate in this activity, please contact **Kendra LaDuca directly at [kladuca@asmb.net](mailto:kladuca@asmb.net) or call 301-634-7456.** The Red Rock Resort provides a variety of guest rooms to accommodate families. In addition, the Resort provides child care facilities at “Kids Quest.” For more information about room types and child care, please contact the resort directly.



# Sunday, October 14

10:00am -12:00 pm

## Guest Symposium I: TERMIS

Tissue Engineering Regenerative Medicine International Society

## Guest Symposium II: Histochemical Society

## Guest Symposium III: Alport Syndrome

12:00-1:00 pm

## Break

1:00-2:30 pm

## CONCURRENT SESSIONS

### Concurrent 1: Matricellular Proteins

CHAIR: Olga Stenina-Adognravi, Cleveland Clinic

#### Thrombospondins in Tissue Remodeling

### Concurrent 2: Proteoglycans

CHAIR: Liliana Schaefer, Goethe University, Frankfurt/Main, Germany

#### Proteoglycan Signaling at the Crossroads

### Concurrent 3: Collagens

CHAIR: Sergei Budko, Vanderbilt Medical Center

#### Collagen IV Assembly Mechanisms

2:30-2:45 pm

## Break

2:45-4:15 pm

## CONCURRENT SESSIONS

### Special Interest Session 1

Programming in process

### Concurrent 4: Elastic Fiber Proteins

CHAIR: Hiromi Yanagisawa, University of Tsukuba

#### Short Fibulins in Maintenance of Vessel Walls

### Concurrent 5: Matrix in Morphogenesis

CHAIR: Sarah Knox, University of California San Francisco

#### It Takes Nerve: How Neuronal Cues Control Organ Morphogenesis and Regeneration

4:15-4:30 pm

## Break

4:30-6:00 pm

## President's Welcome & Award Talks

CHAIR: Joanne Murphy-Ullrich, ASMB President

### Junior Investigator

Alexandra Naba, *University of Illinois in Chicago*

### Iozzo Award Winner

Rachel Lennon, *University of Manchester*

### Senior Investigator

Jean Schwarzbauer, *Princeton University*

6:00-7:00 pm

## Opening Reception

7:00-7:15 pm

## Founders Award Talk

2018 Founders Award Winner — Vincent Fiore,

*The Rockefeller University.*

7:15-8:00 pm  
Keynote Lecture

## Exosomes and Integrins in Cancer

David Lyden,  
Memorial Sloan Kettering Cancer Center

# Monday, October 15

7:15-8:30 am

## Career Mentoring Breakfast

(No charge but pre-registration required, space limited)

8:30-10:00 am

## Plenary I: Novel Approaches and Technologies to Investigate the Extracellular Matrix

CHAIR: Alexandra Naba, University of Illinois in Chicago

8:30 am

## Advanced Methods to Explore Extracellular Matrix Architecture

Kirk Hansen, University of Colorado School of Medicine

9:00 am

## ECM Remodeling During Cancer Progression

Janine Erler, University of Copenhagen

9:30 am

## A Multiscale View of Breast Tumor-ECM Interactions

Joe Gray, Oregon Health and Science University

10:00-10:30 am

## Break

10:30-12:00 pm

## Plenary II: ECM in Disease, Aging and Regeneration

CHAIR: Suneel Apte, Cleveland Clinic Foundation

10:30 am

## Collagen as a Target for NSAID-based Breast Cancer Prevention—A Tribute to Patricia Keely

Pepper Schedin, Oregon Health & Science University

11:00 am

## Imaging, Modeling, and Modifying Matrix Remodeling Following Myocardial Infarction

Jeffrey Holmes, University of Virginia

11:30 am

## Hippo/Yap Signaling in Heart Regeneration

James Martin, Baylor University

12:00-12:30 pm

## ASMB Business Meeting

CHAIR: Joanne Murphy-Ullrich, ASMB President

12:30-2:30 pm

## Poster Session I

2:30-4:00 pm

## CONCURRENT SESSIONS

### Concurrent 6: Structure & Assembly of ECM

CHAIR: Kiyotoshi Sekiguchi, Osaka University

#### Mechanistic Basis for the Laminin Recognition by Integrin

### Concurrent 7: ECM of Inflammation, Infection and Immunity

CHAIR: David R. Soto-Pantoja, Wake Forest School of Medicine

Comprehensive Cancer Center

#### Role of Thrombospondin-1/CD47 Signaling in Metaflammation

### Concurrent 8: Mechanosensing

CHAIR: Ashley Brown, North Carolina State University and University of North Carolina at Chapel Hill

#### Understanding the Role of Platelet-Mediated Fibrin Clot Retraction in Wound Repair

4:00-4:30 pm

## Break

4:30-6:00 pm

## CONCURRENT SESSIONS

### Concurrent 9: Tumor Microenvironment

CHAIR: Cyrus Ghajar, Fred Hutchinson Cancer Research Center

#### Cell Cycle Independent Protection of Dormant Tumor Cells by the Perivascular Niche

## Guest Symposium IV: Matrix Biology Ireland

### Concurrent 10: ECM of Aging

CHAIR: Paul W. Noble, Cedars-Sinai

#### The Changing Landscape in Fibrosing Lung Diseases

## Tuesday, October 16

7:15-8:30 am

### Women Mentoring Women Breakfast

(No charge but pre-registration required, space limited)

8:30-9:30 am

### Plenary III: Signaling From the Matrix

\*Sponsored by the Journal of Histochemistry & Cytochemistry

CHAIR: Jean Schwarzbauer, Princeton University

8:30 am

### Milieu Molecules and Localized TGF-beta Signaling

Timothy Springer, Harvard University

9:00 am

### Human Genetics Aided Discovery of a New Metabolic Hormone

Atul Chopra Baylor College of Medicine

9:30-10:15 am

### ISMB Distinguished Investigator Award Presentation

The Collagen Triple Helix at the Evolutionary Dawn of the Animal Kingdom, Billy Hudson, Vanderbilt University

10:15-10:30 am

### Break

10:30-12:00 pm

### Plenary IV: Genetic Disorders Affecting Connective Tissue

CHAIR: Enid Neptune, Johns Hopkins Medical Institute

10:30 am

### Heritable Disorders of Bone and Cartilage

Deborah Krakow, UCLA

11:00 am

**New Strategies to Identify Signaling Pathways Associated with Aneurysmal Disease in Mice with Marfan Syndrome**, Francesco Ramirez, Icahn School of Medicine at Mount Sinai

11:30 am

**The Role of Activin A in Tissue Homeostasis and in Fibrodysplasia Ossificans Progressiva**, Aris Economides, Regeneron

12:00-2:00 pm

### Poster Session II

2:00-3:30 pm

#### CONCURRENT SESSIONS

### Concurrent 11: Cardiovascular ECM

CHAIR: Luisa Iruela-Arispe, UCLA

**Vascular Regeneration in Adult Arteries**

### Concurrent 12: Skin BM, Wound Healing and Disease

CHAIR: Peter Marinkovich, Stanford University School of Medicine

**Molecular Therapies for Epidermolysis Bullosa**

#### Special Interest Session 2

Programming in process

3:30-4:00 pm

### Coffee Break

4:00-5:30 pm

#### CONCURRENT SESSIONS

### Concurrent 13: Growth Factors and ECM

CHAIR: Karen Lyons, University of California Los Angeles

**CCN Proteins in Bone Formation and Mechanotransduction**

### Concurrent 14: Heritable Disorders of Connective Tissue

CHAIR: Shireen Lamande, Murdoch Children's Research Institute

**Modelling Cartilage and Bone Disorders Using Human iPSCs**

### Concurrent 15: ECM in Musculoskeletal Biomechanics and Regeneration

CHAIR: Farshid Guilak, Washington University St. Louis

**Engineering new biologic therapies for arthritis**

7:00-11:00 pm

**Banquet** (Advanced ticket purchase required.)

## Wednesday, October 17

9:00-10:30 am

### Plenary V: Therapeutic Strategies for ECM Diseases

CHAIR: Beth Kozel, National Institutes of Health

9:00am

**Inhibiting Fibronectin Assembly to Modify Tumor Microenvironment**, Weilan Ye, Genentech Inc.

9:30am

**Targeting Regeneration Through Proteoglycans**

Jeffrey D. Esko, University of California, San Diego

10:00am

**Targeting Matrix Receptors in Fibrotic Diseases**

Ambra Pozzi, Vanderbilt

10:30-11:00 am

### Break

11:00am -12:30 pm

#### CONCURRENT SESSIONS

### Concurrent 16: ECM in Fibrosis

CHAIR: Kota Saito, Akita University

**Mechanisms of Secretion in Fibrosis**

#### Special Interest Session 3

Programming in process

### Concurrent 17: Proteases and ECM Remodeling

CHAIR: Dirk Hubmacher, Icahn School of Medicine at Mt. Sinai

**ADAMTS17: Its Substrates and Its Biological Function**

For more  
information,  
visit  
[www.asmb.net](http://www.asmb.net)



# REGISTRATION INFORMATION

## Registration Details

Registration fees include all scientific sessions, program book, continental breakfasts, poster sessions, coffee breaks, and the opening reception. The ASMB Banquet on Tuesday night is an additional purchase. Registration fees exclude accommodation costs. Registration and payment may be made online at [www.asmb.net](http://www.asmb.net) or via the registration form available online accompanied by a check payment made out to "ASMB." Registration refunds will be provided minus a 15% cancellation fee for refund requests received in writing prior to September 13, 2018. No refunds can be given after this date. Travel and accommodation arrangements are solely the responsibility of the attendee.

## ISMB Members

A special registration offer has been negotiated for current International Society for Matrix Biology members. Please email [info@ASMB.net](mailto:info@ASMB.net) for more information.

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REGISTRATION FEES		
REGISTRATION TYPE	EARLY BIRD Until June 25, 2018	REGULAR After June 25, 2018
<b>ASMB Members</b>	\$500	\$550
<b>Non-members</b>	\$700	\$750
<b>ASMB Student Members</b>	\$350	\$400
<b>Student Non-members</b>	\$500	\$550
<b>*Abstract Submission</b>	\$30	\$50

*\*abstract fees are non-refundable*

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