From the President’s Desk:
This was a particularly busy year for ISMB because of the biennial gatherings of both Matrix Biology Europe (MBE) and the American Society for Matrix Biology (ASMB). We continued to support promising young scientists by awarding several international travel grants to attend these and other matrix biology conferences. At the MBE meeting in Athens, we presented the Rupert Timpl Award for Young Investigators to Alexander Nystroem (Freiburg) for his translational work on dystrophic epidermolysis bullosa published last year in EMBO Molecular Medicine. At the incoming ASMB meeting in St. Petersburg, Florida, we will present the ISMB Distinguished Investigator Award to Karl Tryggvasson (Stockholm and Singapore) in recognition of his outstanding lifetime achievements in matrix biology, which include seminal discoveries related to the structure and function of basement membranes and MMPs. At the same event, we are co-sponsoring a memorial lecture (to be delivered by Jean Schwarzbauer) to honor the late Ruth Chiquet-Ehrismann (Basel) for her pioneering studies on the molecular proprieties and biological roles of tenascins and tenascin-related proteins. On the administrative front, we increased the size of the Council by including two junior members, and instituted several sub-committees to advise the ISMB leadership on how best to improve key operational aspects of the society, such as managing communications, expanding our membership, and selecting travel grants and investigator awards. Overall, 2016 has been a very productive year with regard to sustaining the growth and raising the profile of ISMB.

This is my last message as ISMB President. It has been a great experience and a true privilege to work together with so many committed individuals to promote matrix biology research, strengthen the mission of the society and bring new blood into the field. As I am about to pass the baton into the capable hands of Liliana Schaefer, I want to thank past and current members of the Council for their hard work and David Hulmes, in...
particular, for keeping the society financially sound and ensuring that important deadlines were respected in a timely fashion. Special thanks to Barbara Brodsky and John Ramshaw for so brilliantly managing the ISMB Newsletters during the past few years, and to Sylvie Ricard-Blum for taking over this important job. The outstanding science of our members remains the single most important factor that attracts promising young fellows and creative new investigators into our research field. Keep up the good work and please remember to renew your membership and encourage your colleagues, students and postdocs to join ISMB in promoting matrix biology worldwide.

Prof. Francesco Ramirez, current ISMB President.

COMPOSITION OF ISMB COUNCIL SUBCOMMITTEES

Communication
Jo Adams (UK)
Danny Chan (Hong-Kong)
Julia Etich (Germany)
Wei Kong (China)
Sylvie Ricard-Blum (France, chair)

Meetings & awards
Anthony Day (UK, chair)
Gerhard Sengle (Germany)
Barbara Smith (USA)
Hide Watanabe (Japan)

Membership
Jamie Fitzgerald (Australia, chair)
Sara Wickström (Germany)
Chloë Young (UK)

Travel grants
Ruud Bank (The Netherlands, chair)
Barbara Smith (USA)
Hide Watanabe (Japan)

Like ISMB on Facebook

and follow the ISMB on Twitter
ISMB@IntSocMatBio
https://twitter.com/intsocmatbio
MEETING REPORTS

REPORTS FROM STUDENTS FUNDED BY ISMB TRAVEL GRANTS

One of the most important activities of ISMB is providing international travel grants for young investigators to attend and participate in matrix biology meetings. Below are five reports provided by the ISMB travel awardees to the Gordon Conference Proteoglycans and to the 2nd Matrix Biology Europe conference. Reading their reports below, you can see the value of the ISMB travel awards for these young researchers.

ISMB travel awardees
Cyril Anastasi (Lyon, France) Athens, Greece, MBE, 11-14 June 2016
Fiona Jones (Liverpool, UK) Andover, NH, USA, GRS/GRC Proteoglycans, July 9-15
Pearl Lee (Sydney, Australia) Athens, Greece, MBE, June 11-14
Adam Pudelko (Katowice, Poland) Andover, USA, GRS/GRC Proteoglycans, 9-10 July 2016
Sandra Wiley (San Diego, USA) Athens, Greece, MBE, 11-14 June 2016

Gordon Research Seminar and Conference on Proteoglycans, Andover NH, USA 08-15 July 2016

Firstly, I would like to thank the International Society of Matrix Biology for providing me with the opportunity to attend the GRS/GRC Proteoglycans. I am a PhD student working in the lab of Dada Pisconti from the University of Liverpool and my project aims to understand how the proteoglycan syndecan-3 signals in myogenesis. This was my first GRS/GRC and my first international conference in the U.S. From the beginning the atmosphere was incredibly friendly and sociable from both the staff and attendees. The mix of PhD students, post docs, younger and more senior investigators served the conference well in terms of the breadth of research presented. The GRS was prior to the GRC and served as a useful platform for PhD students and postdocs to interact on a professional and social level. Everyone actively participated in the discussion of the talks by asking questions and giving feedback which was a great way to improve confidence before the other researchers arrived. Tabea Dierker from Sweden did a fantastic job organising the event and encouraging everyone to interact by presenting a poster, chairing a session or giving a talk. Aside from presenting research there were some insightful talks from senior investigators such as Jeff Esko who gave a talk on being ‘mensch at the bench’. The main conference started soon after the GRS ended and started off with late-breaking topics. The data presented was novel and insightful. In particular, we were lucky enough to hear Randy Shekman, a Nobel laureate, discuss vesicular transport and membrane assembly. Of particular relevance to me were the sessions on musculoskeletal biology and disease, technological advances and cell signalling and trafficking. From these sessions I took away a great deal of knowledge, specifically new techniques to experiment with and fresh ideas for my project. I was also selected to give a teaser talk with the aim of promoting my poster which was a fantastic idea and gave me confidence in presenting in front of many people. Interaction with all researchers was actively encouraged. This was evident during all of the poster sessions, evening and day activities. Posters sessions ran for four days and lasted two hours, allowing ample time for me to visit many presenters and present my own poster. During this time I met a number of individuals who were interested in my work and consequently we had a great discussion on my results and what direction I am planning to take. Day time activities were scheduled which was another period for socialisation to discuss science and non-science issues. Overall I thoroughly enjoyed the GRS/GRC Proteoglycans. I met many scientists in differing stages of their careers and since then we have been in contact to share ideas and skills. The experience I gained during the conference improved my confidence, networking and expanded my knowledge. I hope to attend again in the future.

Fiona Jones, Liverpool (UK)
Andover is a quaint New England village (pop. 2,200) in New Hampshire’s Lakes Region, where the Gordon Research Seminar (GRS)/Conference (GRC) are systematically organized. The Proctor Academy is located in a beautiful piece of natural environment, rich in forests and lakes, where you can forget about mass media and focus on science. To cut a long story short, this visit was the best scientific experience in my life. Please follow my points explaining why I think so. First of all, GRS/GRC are really at the frontiers in science because the scientific community presents unpublished results. Being there you know what is going to be published in next few months in your scientific field. In my opinion it is a strong point of GRC. During the conference, I carefully listened to presentations from world top lecturers and admired the scientific value of their work. The schedule was planned very carefully in both scientific and social parts. Moreover, the international scientific proteoglycan community gave me a huge feedback to my project. I got many useful tips and advices for my project, some of them I am now applying. The proteoglycan community is very friendly and sociable, I met many new friends and made very promising contacts for my scientific career. Thus, the GRS/GRC meeting will stay long in my best memories awakening the hope for next attendance.

Adam Pudełko, Katowice (Poland)

2nd Matrix Biology Europe Conference, Athens (Greece) June 11-14, 2016

Matrix Biology Europe is the most important European conference dealing with Matrix Biology, bringing together young scientists and world-class speakers in the field. It was a great honour and pleasure for me to be there and to hear about the most exciting aspects of the research performed on the extracellular matrix. The meeting was organized in plenary sessions followed by more specific parallel workshops. Covered topics ranged from the roles of proteoglycans, collagen modifications and enzymatic signalling to tissue engineering and cell adhesion. As I was close to the end of my PhD, I expected this conference to be a major opportunity to present and discuss my PhD results with international scientists and I was not disappointed. My poster on the proteolytic modifications of thrombospondin-1 attracted a lot of people with whom I had very interesting discussions. I was surprised to discover that another group was working on a similar topic but, fortunately, their focus was slightly different and there was no direct competition! I also enjoyed the plenary sessions and the workshops which provided an exceptional opportunity to learn and deepen my knowledge of matrix biology through the diversity of the subjects which were covered and of the approaches used to study the extracellular matrix. This scientific experience had been really great thanks to all the speakers and the social interactions during the breaks! Also, I could stay in Athens for a few more days after the meeting and discover this beautiful city. For all these reasons, I would like to thank the conference organizers and also the ISMB for giving me a travel award and the opportunity to experience this.

Cyril Anastasi (Lyon, France)

In June 2016, I had the honour of receiving the International Society for Matrix Biology (ISMB) travel grant to attend the Matrix Biology Europe meeting held in Athens, Greece. This conference was organised with the help of ISMB and is recognised as the most important Matrix Biology conference in Europe. The work that was presented at this conference covered topics ranging from the role of proteoglycans, collagen modifications, cell-matrix interactions to applications in tissue engineering. My PhD project is focused on generating a sophisticated model of the multiple integrin-based interactions between human fibroblasts and tropoelastin. Understanding this interaction teaches us about the molecular interface between elastic tissue and cells, and allows us to develop strategies to improve wound repair and promote soft tissue integration of biodevices. Therefore, the conference not only gave me insight into the current understanding of cell-matrix interactions, but also allowed me to foster collaborations with pioneers in the field to contribute to the bigger picture. With the crucial help of this grant, I was able to travel to Greece from Australia to
give a talk on my recent work. Additionally, this attendance and participation allowed me to receive the Excellence in Matrix Biology Award, which was selected and judged by a panel from the Matrix Biology journal, Elsevier. Attending the conference was an extremely rewarded experience. I would like to extend my gratitude to the organisers of this conference for granting me the funding to contribute to this fascinating field of research. The recognition upon receiving this award is a great honour and has given me an opportunity to foster ties that are crucial to my academic career.

Pearl Lee, Sydney (Australia)

First, I need to thank Nikos Karamanos for inviting me to speak at the MBE 2016 meeting and to congratulate him for doing such a superb job in organizing the meeting. The venue was beautiful. The science was stimulating. Athens was exciting with so much to explore and great food! I really appreciated the guided tour of the Acropolis museum that the meeting arranged. I arrived in Athens after speaking at a FASEB meeting in Colorado, USA, which was a bit of a culture shock to be honest. I had never attended a meeting outside of North America and was surprised by how formal the atmosphere of the meeting was. There were men in suits...with ties!! This is uncommon at meetings in the USA and Canada unless the audience is primarily medical doctors. I also found it rather challenging to break in socially the first day and start conversations with people. It felt a little like a close-knit club. Regarding the format of the meeting, I would have preferred to have the meeting run a day longer and only have one session running at a time. It was so difficult to choose which workshops to attend. I hated missing out on 1/3 of the talks because of the parallel workshops. I was learning so much in every session. There were also chronic audio-visual issues in the Attica room that necessitated cutting out question time after many of the presentations to be able to keep to the schedule. While I understand the need for this, I would have appreciated more time for questions and discussions. The science presented at the meeting was top notch, very translational in focus, and some of the techniques that people are using just blew me away. I came away with a note pad full of ideas and the names of several potential future collaborators. It was also nice to get so much positive feedback on my presentation. For me, the highlight of the meeting was the taverna dinner for the invited speakers. The food was excellent, the wine plentiful, and the conversation lively. I had the pleasure of sitting with some really fun people. We were the first to join the Greek contingent once the dancing started!! I was one of the first to leave at 23:00. After this night, conversations at the meeting came more easily. I felt as though I had broken the ice and started to be part of the club.

Sandra Wiley (San Diego, USA)

FASEB meeting Science Research Conferences “Matricellular Proteins in Development, Health, and Disease" West Palm Beach, Florida (USA) July 17-22, 2016

At the 2015 FASEB SRC on Matricellular Proteins, held in West Palm Beach July 17-22, 2016, a presentation was made to Jack Lawler to recognise his extensive contributions to the field of matricellular protein biology.

Jack Lawler with Deane Mosher and Jo Adams at the FASEB meeting
POSITIONS AVAILABLE

In the past, we have included any Positions Available within the newsletter. But it has become clear that a twice yearly newsletter is not a good way of posting positions in any timely manner; the deadline for applications would frequently be over before the newsletter came out. So these job openings are now being posted and can be viewed online on the ISMB website (www.ismb.org). So, if you have any job openings please send the notification to David Hulmes (david.hulmes@ibcp.fr) for placing on the ISMB website (http://ismb.org/career/).

The “Extracellular Matrix News” also includes an online listing of positions that are available, so you can also benefit from this partnership. “Extracellular Matrix News” is a free, weekly e-Newsletter for members of the extracellular matrix community. The ISMB web site (http://ismb.org/) now includes a link to “Extracellular Matrix News” on the welcome page (http://www.extracellularmatrixnews.com).

Recent posting on ISMB website (check for more details):


A postdoctoral position is available for a candidate to study novel substrates of proteases, in particular matrix metalloproteinases (MMPs). The OVERALL LAB has pioneered a number of cutting edge proteomics methods (degradomics: including TAILS (Nature Biotechnology, Nature Protocols), C-TAILS (Nature Methods, Nature Protocols), PICS (Nature Biotechnology), TopFIND database (Nature Methods)) for the analysis of protein termini and identification of protease substrates in healthy and diseased tissue (e.g. arthritis (Cell Reports), skin inflammation (Science Signaling), innate and acquired immunity (Nature Communications), and viral infection (Nature Medicine)). Moonlighting proteins that have canonical roles inside the cell that are secreted by non-conventional means are a priority. The candidate will elucidate the roles of these novel and unexpected substrates in cell regulation before and after proteolytic processing. Thus we will decipher how tissue pathologies, particularly inflammatory diseases, autoimmunity and immunodeficiencies, and cancer, are driven by proteases (e.g. MMPs, ADAMs, ADAMTS, cathepsins, viral proteases) and bioactive substrates that modulate signaling feedback loops with emphasis on connective tissues, the extracellular matrix and immune cells.

The candidate should have a practical background in protease biology, extracellular matrix biology, inflammation, and immunobiology. Experience in a variety of biological systems is an asset as the candidate will use biochemical methods, mammalian cell tissue culture and murine models to elucidate the roles of moonlighting proteins and the effects of proteolytic processing as well as determining whether cleavage creates new functions. Biological assays will include angiogenesis, chemotaxis, cell migration and invasion assays, proinflammatory cytokine production. Further characterization of the significance of proteolytic processing in vivo will be determined by developing selected reaction monitoring (SRM) assays and neoepitope antibodies to establish the prevalence of proteolytic processing in healthy and inflamed/diseased tissues using mass spectrometry, immunohistochemistry and by developing ELISA-type assays. It is anticipated that some of the identified proteoforms will be useful as biomarkers for disease diagnosis. A significant portion of the lab is dedicated to degradomics, utilizing and developing liquid chromatography tandem mass spectrometry techniques (LC-MS/MS). Thus there is the opportunity for the candidate to use proteomics to address the roles of moonlighting substrates and the applicant will be trained in this. The lab is situated in the Centre for Blood Research (http://cbr.ubc.ca/) in the Life Sciences Centre (http://lsi.ubc.ca/) at the University of British Columbia in Vancouver.

Apply to chris.overall@ubc.ca, www.clip.ubc.ca
RECENT REVIEWS AND PAPERS

Two papers on collagen IV have been published by Matyas Mink’s group (Dept. of Genetics, Univ. Szeged, Hungary) in Matrix Biology and in Data Brief. The first one covers an unexpected innate immune response generated in collagen IV (col4a1) mutants. The other deals with the formation of actin stress fibers in the same genetic background. The authors surmise that both represent novel phenotypic aspects of the abundant COL4A1 mutant proteins, not necessarily seen in human patients or mouse Col4a1 mutant models.


Corresponding author: Dr A. Pisconti (Dept of Biochemistry, Institute of Integrative Biology, University of Liverpool, UK)

Satellite cells (SCs) are skeletal muscle stem cells residing quiescent around healthy muscle fibres. In response to injury or disease SCs activate, proliferate and eventually differentiate and fuse to one another to form new muscle fibres, or to existing damaged fibres to repair them. The sulfated polysaccharide heparan sulfate (HS) is a highly variable biomolecule known to play key roles in the regulation of cell fate decisions, though the changes that muscle HS undergoes during SC differentiation are unknown. Here we show that the sulfation levels of HS increase during SC differentiation; more specifically, we observe an increase in 6-O and 2-O-sulfation in N-acetylated disaccharides. Interestingly, a specific increase in 6-O sulfation is also observed in the heparanome of ageing muscle, which we show leads to promotion of FGF2 signalling and satellite cell proliferation, suggesting a role for the heparanome dynamics in age-associated loss of quiescence. Addition of HS mimetics to differentiating SC cultures results in differential effects: an oversulfated HS mimic increases differentiation and inhibits FGF2 signalling, a known major promoter of SC proliferation and inhibitor of differentiation. In contrast, FGF2 signalling is promoted by an N-acetylated HS mimic, which inhibits differentiation and promotes SC expansion. We conclude that the heparanome of SCs is dynamically regulated during muscle differentiation and ageing, and that such changes might account for some of the phenotypes and signalling events that are associated with these processes.

ISMB MEMBERSHIP

BECOME A MEMBER OF ISMB! ISMB is dedicated to promoting matrix biology research on a global scale and to facilitating communication among matrix-related organizations and researchers from different countries. Members are eligible for discounted registration fees at matrix meetings supported by ISMB. The Society sends out twice yearly newsletters highlighting recent research advances, descriptions of matrix biology resources, new appointments and awards, together with announcements of relevant meetings. Every two years, the Society presents the Rupert Timpl Award to a young scientist (<40 years old) for the best paper related to matrix biology published in the previous two years and gives the Distinguished Investigator Award for lifetime achievement in the field of matrix biology. ISMB sponsors travel grants for young scientists to attend international matrix meetings. If you work in the matrix biology area, consider becoming a member of ISMB to support the international matrix community and give your input on ways to improve interactions and communication. See the website www.ismb.org to join, and for recent job postings and newsletters.
WELCOME TO NEW MEMBERS OF ISMB

We welcome the following new members who have joined ISMB since April 2016:

- Vanessa de Oliveira Carlos, Postdoc, Max Planck Institute for Molecular Cell Biology & Genetics, Dresden, Germany
- Fengying Tang, Research Associate, University of New South Wales, Kensington, Australia
- Athanasia Liabotis, PhD student, Collège de France, Paris, France
- Elise Lambert, Associate Professor, Functional Genomics Institute, Lyon, France
- Javier Rodriguez-Baena, PhD student, Genyo, Granada, Spain
- Aaron Petrey, Postdoc, Cleveland Clinic, Cleveland, OH, USA
- Bent Brachvogel, Professor, Center for Biochemistry, Cologne, Germany
- Pingping Han, Postdoc, Institute for Bioengineering & Nanotechnology, Brisbane, Australia
- Heena Kumra, PhD student, McGill University, Montreal, Quebec, Canada
- Laura Ferreras, PhD student, Newcastle University, Newcastle-upon-Tyne, UK
- Steven Shen, Postdoc, University of British Columbia, Vancouver, Canada
- Valerio Russo, Postdoc, University of British Columbia, Vancouver, Canada
- Signe Nielsen, PhD student, Nordic Bioscience, Herlev, Denmark
- Sanne D'hondt, PhD student, Center for Medical Genetics, Gent, Belgium
- Vincent Legagneux, Staff researcher, University of Rennes, France
- Michael Randles, Postdoc, University of Manchester, UK
- Dovile Sinkeviciute, PhD student, Lund University, Sweden, Sweden
- Camila de Avila Dal'Bo, PhD student, Cardiology and Pneumology Institute, Quebec, Canada
- Michal Dudek, Postdoc, University of Manchester, UK
- Giselle Yeo, Postdoc, University of Sydney, Australia

NEW MATRIX BIOLOGY LABS

Alexandra Naba’s lab  Department of Physiology and Biophysics, College of Medicine, University of Illinois, Chicago (USA)

Dr. Alexandra Naba was newly appointed Assistant Professor in the Department of Physiology and Biophysics at the University of Illinois at Chicago (UIC).

Alexandra, a Parisian native, received her Ph.D. from the Curie Institute in Paris, France where she studied the role of the membrane-cytoskeleton linker, ezrin, in normal and tumor cell adhesion in the laboratory of Daniel Louvard under the supervision of Monique Arpin. For her postdoctoral training, she joined the laboratory of Richard Hynes at MIT where she became the driving force of a project aimed at understanding the role of the ECM in tumor progression. At MIT, Alexandra developed a novel pipeline combining proteomics and bioinformatics to study with high throughput the molecular composition of the ECM, pioneering the field of "matrisomics". Her studies demonstrated striking differences in the matrisome of tumors of different metastatic potential and showed that distinct sets of ECM proteins could predict metastatic potential of primary tumors. Her work led to the development of “The Matrisome Project” (matrisome.org), a website that aims to facilitate ECM research by
MatrisomeDB, a database providing live cross-referencing to gene and protein databases for every ECM and ECM-associated genes and integrating experimental data on the ECM generated using proteomics. Alexandra and her lab will pursue their investigations on the role of the ECM in development and cancer progression using classical cellular and developmental biology approaches on *in vivo* and *in vitro* systems. The Naba lab will also continue to push forward the development of novel proteomic and computational methods to gain greater insights in ECM biology.

You can follow the activities of the Naba Lab on the website [http://nabalab.uic.edu](http://nabalab.uic.edu) or on Twitter [@NabaLabUIC](https://twitter.com/NabaLabUIC).

**MATRIX MEETING ANNOUNCEMENTS**

**American Society for Matrix Biology**
The ECM Microenvironment: A Regulatory Force in Aging and Disease
November 13-16, 2016, St Petersburg, FL (USA)
[http://www.asmb.net/current_meeting.php](http://www.asmb.net/current_meeting.php)

**Matrix Biology Ireland**
November 16-18, 2016, Galway, Ireland
Repairing the Matrix - Disease manifestation and therapeutic strategies
[http://www.mbi.ie/meeting-2016/home](http://www.mbi.ie/meeting-2016/home)

**Matrix Biology Society of Australia and New Zealand**
November 20-23, 2016, Sydney, Australia
World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases
March 23-26, 2017
Florence, Italy
http://www.humacom.com/node/79/raw

German Society for Matrix Biology
March 9-11, 2017
Cologne, Germany
Chair of the organizing committee: Gerhard Sengle
http://www.matrixbiologie.de

The Gordon Research Conference and Seminar on Cartilage Biology & Pathology
April 2-7, 2017
Renaissance Tuscany Il Ciocco, Lucca (Barga), Italy
https://www.grc.org/programs.aspx?id=13112
FEBS Advanced Lecture Course Matrix Pathobiology, Signaling & Molecular Targets
May 25-30, 2017
Spetses, Greece,

The 6th FEBS Advanced Lecture Course on Matrix Pathobiology, Signaling and Molecular Targets (6th FEBS-MPST 2017) follows the previous successful FEBS-MPSTs organized every other year since 2015. Matrix Biology is a fast growing field with significant impact in all areas of Biosciences. The 6-days FEBS-MPST 2017 will offer oral sessions with invited plenary lectures, talks by confirmed speakers, general lectures and tutorials, selected talks related to the topics of the presented abstracts, poster presentations, panel discussions and speakers’ corner/meet the expert. These sessions will address both basic and applied science topics that appeal to the range of participants working in the fields of Matrix Biology, Biochemistry, Cell & Molecular Biology, Glycobiology, Structural Biology, Pharmacology, Biotechnology and Medicine.

The Organizing Committee has put together an outstanding group of internationally recognized experts as invited speakers. Open slots for talks will include selected short talks and confirmed registered speakers as well. The lectures and tutorials will provide you with an update of important new knowledge covering key areas of the field. Young Travel Fellowships and Young Investigator Awards will also be available upon application/selection procedure for graduates and fellows up to 5-years after their PhD.

Traditionally, the most important goal of the FEBS-MPST Meetings is to bring together scientists from life sciences on an important and rapidly developing scientific field and to create the environment for a superb science, warm collegiality, an all-around rewarding experience and social events during this special time of year.

http://www.febs-mpst2017.upatras.gr

Hyaluronan 2017
June 11-15, 2017
Cleveland, OH (USA)
https://www.ishas.org/

2017 TERMIS-EU Conference
26-30 June, 2017
Davos, Switzerland
http://www.termis.org/eu2017/
ASMB Workshop 2017 on Basement Membranes
July 12-14, 2017
Vanderbilt University, Nashville, TN (USA)
Organizers: Roy Zent, Jeff Miner, Billy Hudson, Jay Bhave, Jeff Davidson and Ambra Pozzi

Gordon Research Seminar  Collagen
July 15-16, 2017
Colby-Sawyer College, New London, NH (USA)
Chairs: Celestial Jones-Paris & Richard L. Williams
Collagen Biochemistry to Physiology: Relevance to Living Tissues and Exploitation in Medical Technologies
https://www.grc.org/programs.aspx?id=14698

Gordon Research Conference Collagen
July 16-21, 2017
Colby-Sawyer College, New London, NH (USA)
Chair: Florence Ruggiero
The theme of the meeting is “The Multifaceted Nature of Collagens in Development, Disease and Tissue Repair” and the meeting description and session titles are online at https://www.grc.org/programs.aspx?id=12176

Gordon Research Seminar  Elastin, Elastic Fibers & Microfibrils
Elastic Tissues and Extracellular Regulation of Growth Factor Signaling
July 29-30, 2017
University of New England, Biddeford, ME (USA)
Chairs: Giselle C. Yeo & Marie Billaud
https://www.grc.org/programs.aspx?id=14714

Gordon Research Seminar Elastin, Elastic Fibers & Microfibrils
Elastic Tissues and Regulation of Growth Factor Signaling in Development, Homeostasis and Disease
July 30 - August 4, 2017
University of New England, Biddeford, ME (USA)
Chair : Clair Baldock
The theme of the meeting is "Elastic Tissues and Regulation of Growth Factor Signaling in Development, Homeostasis and Disease" and the meeting description and session titles are online at https://www.grc.org/programs.aspx?id=11200