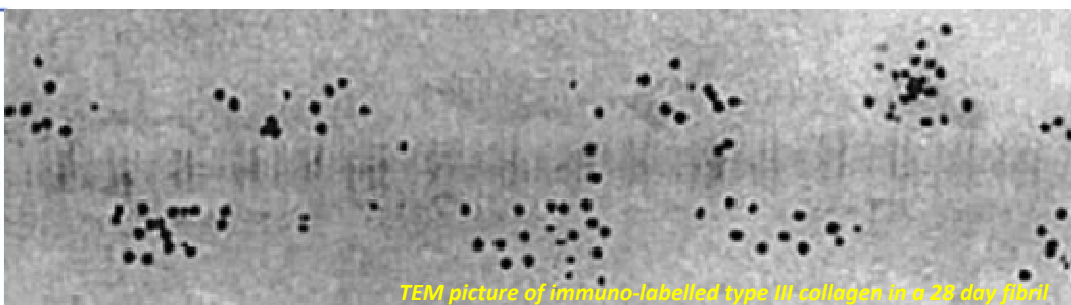




TEM picture of immuno-labelled type III collagen in a 28 day fibril

ISMB NEWSLETTER 20 September 2014

Editors: Barbara Brodsky and John Ramshaw



From the President's Desk

The 'even' years are always busy for ISMB with both Matrix Biology Europe (MBE - the new name for a reinvigorated FECTS) and ASMB meetings. We presented the Rupert Timpl award (for the best paper published by a young researcher in the last two years) to Franck Oury for his ground breaking work on osteocalcin at the MBE meeting in June and our Distinguished Investigator Award will be presented to Leena Bruckner-Tuderman at the ASMB meeting next month. Leena has made outstanding contributions to matrix biology, scientifically, and importantly also in mentoring and training younger researchers. Thank you to all who responded to the ISMB survey. David Hulmes and Jo Adams have completed an excellent job in analysing the data. Details follow in this Newsletter. Resulting from this survey, ISMB Council is currently discussing possible mechanisms to increase our interactions, engagement and communication with local societies. Another exciting topic of discussion is the possibility of facilitating and supporting a truly international World Matrix Biology meeting. Suggestions and comments from ISMB members on these discussion topics are very welcome and can be emailed either to David Hulmes (david.hulmes@ibcp.fr) or myself (shireen.lamande@mcri.edu.au). This will be my last newsletter as ISMB President. It has been a privilege to hold the position and I thank the entire ISMB Council for their support over the last two years and particularly David Hulmes. Without David I wouldn't have met any of the important deadlines. A special thanks also to Barbara Brodsky and John Ramshaw who have done an amazing job as co-editors of the ISMB Newsletter. Next year ISMB will be in the hands of Francesco Ramirez and our Vice-President will be Liliana Schaefer. Please support them and ISMB by renewing your memberships and urging your colleagues, students and post-docs to join so that we can continue to promote matrix biology research worldwide and support our young researchers.

Shireen Lamandé
President ISMB (shireen.lamande@mcri.edu.au).

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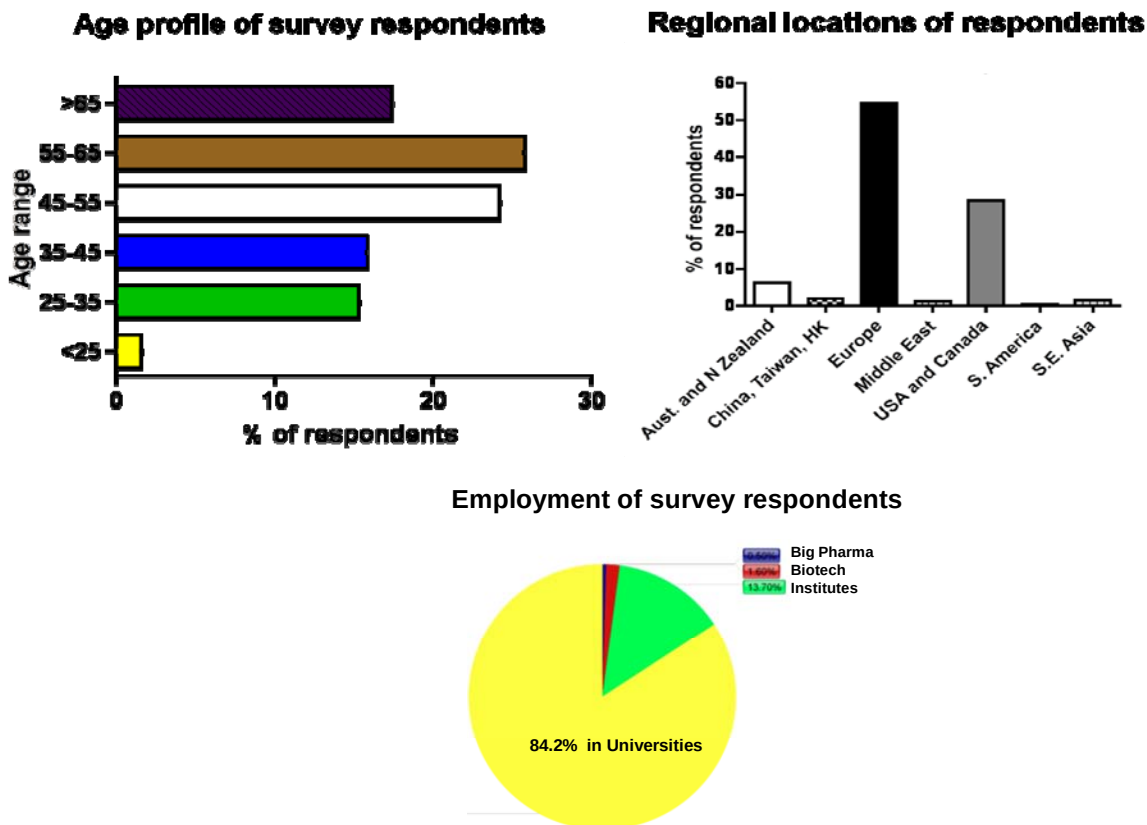
ISMB 2014 MEMBERSHIP SURVEY REPORT

From David Hulmes and Jo Adams

The survey organizers would like to thank all ISMB members who took part in the survey. The level of engagement was high and many detailed responses were given. Here we provide charts and graphs on the demographic data and some short-answer questions, along with summaries of the open responses. We hope that these data and summaries can form the basis for further discussions within the ISMB membership and with the wider global matrix biology community and national Societies.

65% (~ 200) of all ISMB members took part in the survey.

The demographics of the respondents are shown in the graphs. 39 % of respondents were female, 61% were male.



A: ISMB Newsletter

91% of survey respondents read the ISMB newsletter.

Items considered particularly valuable about the newsletter are the notifications of upcoming matrix biology conferences, news of matrix biology research advances and news about matrix biologists worldwide.

In reply to the open question ***“What else would you like to see covered in the newsletter?”***, there were 55 respondents, almost half of whom were happy with the newsletter as it is. Of the others, the most frequent request (11 responses) was for the newsletter to carry information about job vacancies or job seekers. Three respondents asked if information on funding opportunities could be included. A variation on this idea was the suggestion for listing of requests for collaborations: for example, in specific technology areas or involving international joint grants. Other responses covered a wide range of ideas for types of articles to be included in the newsletter:

New directions in matrix biology

- Features on matrix biology research groups and research ongoing in not-so-rich countries
- Analysis of trends in research funding at an international level

- Summaries of recent important papers
- Topics of interest to early career scientists
- Tips about core reagents (such as antibodies) that work or don't work
- Perspectives from matrix biologists who have moved into other fields
- Perspectives on the integration between matrix biology and medical science.

86 % of respondents prefer email as the sole form of communication from ISMB. 13% would like to see an ISMB Linked-In page and 6% would like communications by Twitter.

B. Relationship between ISMB and other matrix biology societies

Around 80 % of respondents belong to one or more national/regional matrix biology societies, in addition to ISMB.

Memberships grouped by geographical zone		Memberships grouped by country or region	
Zone	% of total memberships	Location of Society	% of total memberships
Americas	24.4	USA	23.9
		Canada	0.4
Europe	44.4	Germany	15.4
		UK	10.7
		France	6.4
		Finland / Norway / Sweden / Denmark	4.3
		Italy	2.6
		Switzerland	1.7
		Ireland	1.3
		Netherlands	0.9
		Greece	0.4
		Belgium	0.4
		Bulgaria	0.4
		Australia / New Zealand	6.4
		Japan	4.3
Asia & Oceania	11.5	China	0.9
ISMB only	19.7		19.7

There were 100 responses to the open question ***"How do you see the relationships between ISMB and other matrix biology societies?"*** which could be grouped as follows:

- Not very strong (4 responses)
- Good/important (24 responses)
- An umbrella or coordinating organisation (4 responses; this was thought to be particularly important for members in countries with small or no national matrix biology societies)
- Connecting matrix biologists who would otherwise not be in contact (3 responses)
- Collaborative or fraternal/sisterly (3 responses)
- ISMB should have its own function (1 response)
- ISMB should focus on promoting international contacts/cooperations/liaisons between societies (2 responses)
- Unclear (8 responses)

Specific comments included: (1) "ISMB is a global organisation promoting all matrix research across international borders. ISMB can help with supporting meetings in small communities and financially challenged communities". (2) "Should be a conduit to co-ordinate the timings of international meetings".

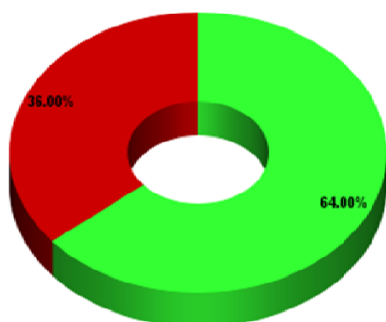
Several respondents noted that there is no formal relationship between ISMB and other societies at present. Different views were expressed in looking to the future: three respondents thought that ISMB has no function and only national matrix biology societies are needed. Multiple respondents thought that ISMB should be a common platform or "mother-ship", and make more links with national societies that otherwise maintain independence. Three respondents thought that it would help coordination of meetings and promotion of matrix biology to have a single global society for matrix biology.

C. Roles of the ISMB

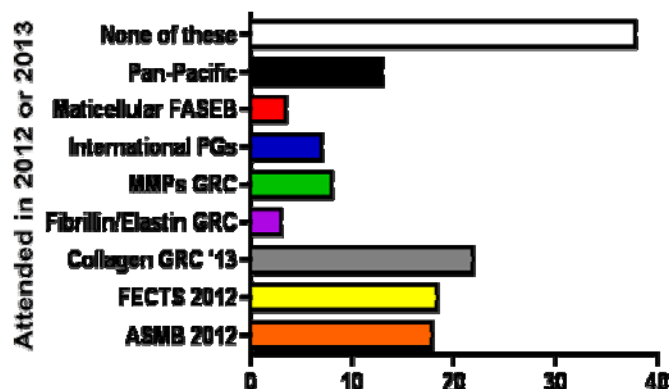
All respondents agreed that the main roles of the ISMB are/should be as follows:

- Support for major matrix biology meetings, including discounted registration rates for ISMB members.
- Support for young researchers through international travel grants.
- Recognition of research achievement in matrix biology.
- Acting as a resource centre on matrix biology (background information, possible speakers and reviewers).
- Advocacy/lobbying for matrix biology (funding bodies, journals)
- Over half the respondents answered "Yes" to the question "Would you like the ISMB to organize meetings?"

Responses to the question "Would you like ISMB to organise meetings?"



Participation of survey respondents in ISMB-sponsored meetings held in 2012 and 2013



About half the respondents replied to the open question "What do you value most about ISMB?".

The following major themes emerged: international character (33 responses); networking, maintaining contacts and connecting the matrix biology community (21 responses); support for meetings (19 responses); a useful source of information (15 responses), particularly the newsletter (10 responses); support for young scientists, including travel grants (8 responses); connecting national matrix biology societies (7 responses); advocacy, promotion of matrix biology in general (6 responses); *Matrix Biology* journal (4 responses).



Selected responses:

- The role in the promotion of matrix biology research, although the links with other disciplines and research areas make it difficult to retain it as a separate topic. ISMB may help to gain recognition for the field in general.
- Its role in supporting research meetings across the boundaries on national societies and its role in supporting the journal Matrix Biology. The perceived international relevance of the journal would be less without ISMB support.
- ISMB and the organized meetings promote international collaborations and exchange of materials between matrix biologists.
- There are plenty of national and regional societies that organise meetings. There may well be a place for a single body to represent these societies globally but this role needs to be performed by a federation agreement where the national societies are the members and own the federation. I cannot see how a stand alone society with individual private members can fulfil a major international co-ordinating and advocacy role.
- The matrix research field is getting shrunk in many countries. An integrated international society is definitely required to maintain the research activities.
- I think there are two important missions: 1) To organize meetings more efficiently. At present, you have to attend several similar meetings. 2) To raise young researchers in this field, thus circulating information about jobs/positions would be helpful.
- Global communication that strengthens the overall MB community.
- I see the ISMB as the mother of the societies. I think its role would be more in being a meeting point for information on people who work on ECM, running a journal, helping out other societies and scientists for travelling and organising meetings. Some sort of mentoring role, as it indeed currently is. I don't see the necessity of dedicated meetings of ISMB as otherwise it may be competing with the many meetings which already exist. Rather continuing in supporting ECM meetings and promoting ECM growth worldwide is great and I think that this is one of the most valuable function of ISMB.
- It can help networking in the Matrix research area. Perhaps, the site should be re-organized and it should be more evident who are the members, how to contact them and so on.

D. "Any other question and comments".

24 members (12% of total respondents) replied to the open question "Any other comments and suggestions?".

Many respondents seemed generally satisfied with the activities of the ISMB.

Selected responses:

- You guys are doing a good job, please continue being so active and productive!
- The ISMB has an important role.
- Promote more communication among various societies of matrix biology.
- Improve ISMB!
- Find alternative ways to support the mission. The meetings do offer a chance to raise money.
- A better and more active web site.

E. Conclusions

The survey raised a number of important points about present and future roles of the ISMB that are currently being discussed and acted upon by members of ISMB Council.

MAJOR ISMB AWARDS



ISMB Awards 2014

Leena Bruckner-Tuderman

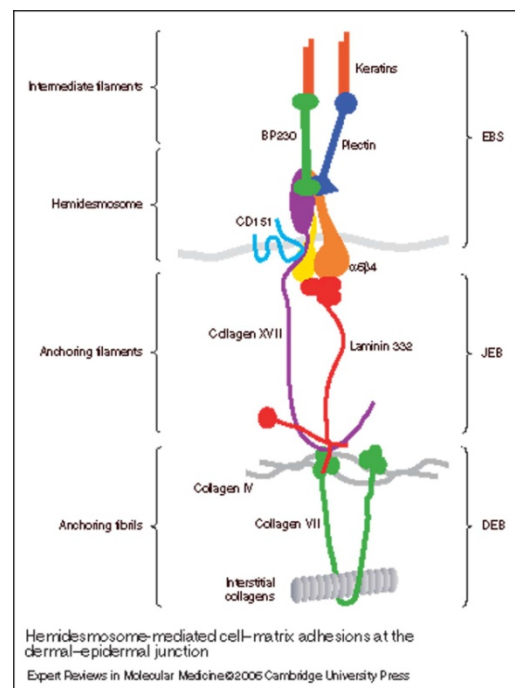
**Recipient of the 2014 ISMB
Distinguished Investigator Award
for Outstanding Contributions to
Matrix Biology**

Dr. Leena Bruckner-Tuderman is Professor and Chair of Dermatology at the Medical Center, University of Freiburg, Germany. Her research activities span from mid 1970s to the present and continue as strong contributions in matrix biology and dermatology. She is the recipient of several distinguished prizes, and a highly active participant in international conferences, scientific societies, review boards and collaborative networks.

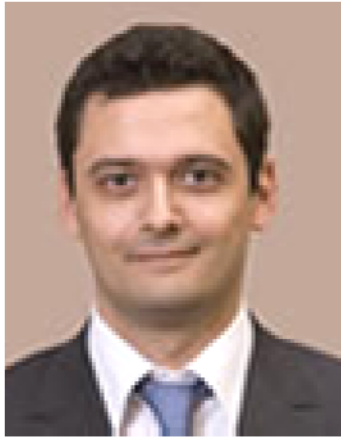
She is also the vice president of DFG, the German Research foundation since 2012, a position testifying to the high regard she enjoys in the German science environment.

Her scientific career began under supervision of Prof. Kari Kivirikko in parallel with her medical studies at the University of Oulu, Finland. She obtained the MD degree in 1976, and completed her PhD studies in 1977. This was followed by post-doctoral work at the laboratory of Prof. Darwin Prockop, Rutgers Medical School, Piscataway, USA. In 1980 she moved to Switzerland, where she trained in dermatology at the University of Zurich. In 1994 she moved to Munster, Germany, and became Professor of Dermatology. In 2002 she was called to Chair the Department of Dermatology at the University of Freiburg, where she is also a fellow and deputy director of the Lifenet School of Life Sciences at the Freiburg Institute for Advanced Studies.

Prof. Bruckner-Tuderman has produced over 300 publications since 1975. She began her research career by being one of the first to purify the key enzyme of collagen synthesis, prolyl hydroxylase, and to characterize its mechanistic properties. During her post-doctoral years, she continued work on collagen biosynthetic enzymes by focusing on procollagen N-propeptidase. Subsequently, her interest has centered on the biology and pathology of the skin, and she has made seminal contributions to the understanding of skin basement membrane proteins and adhesion receptors, and their roles in bullous disorders of the skin. Her work on collagen VII and XVII form a particularly outstanding contribution to the understanding of the properties and roles of these collagens in the skin adhesive structures, the identification of mutations in patients, and the establishment of mutation-phenotype correlations. She has extended this basic work to trials of treatments of the debilitating disorders due to mutations in these molecules. Her interests in skin research cover also several other collagens, laminins, kindlins, integrins and proteases, with many discoveries of new disease associations and mutations in patients. Prof. Bruckner-Tuderman is exemplary in bridging rigorous basic research, ranging from biochemistry to cell biology and use of model organisms, with clinical phenotypes and attempts to use the scientific results for benefits to patients. I also admire her for being easily approachable by fellow scientists and her highly supportive attitude towards the many students and postdoctoral scientists that she has guided.



Contributed by Taina Pihlajaniemi

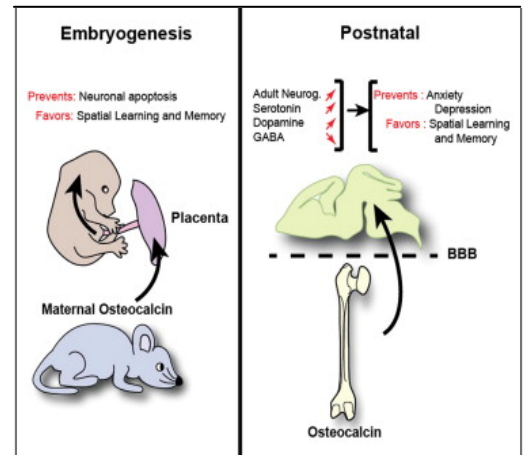


ISMB Awards 2014

Franck Oury

**Recipient of the 2014
ISMB Rupert Timpl Award**

(The Rupert Timpl Award is given for the best paper published by a young researcher in the last two years).



The work of Franck Oury has integrated whole-organism physiology, mouse genetics, neuroscience and matrix biology. After completing his graduate studies in the laboratory of F. Ridji at IGBMC in Strasbourg, France, Franck Oury joined my laboratory at Columbia University Medical Center in New York City. In my lab Franck successfully conducted several projects.

Relying on his neuroscience expertise Franck was instrumental in delineating a road map of leptin in the brain and identifying serotonin signalling in various hypothalamic neurons. In a second totally separate project Franck, with the goal to expand his expertise, decided to test whether bone as an endocrine organ regulates fertility. He single-handedly showed that it does so but to our surprise only in males. Through a monumental work Franck Oury showed that the molecule responsible for this function was osteocalcin, which was one of the most abundant proteins of the bone extracellular matrix. Franck also showed that GPR6CA is a receptor for osteocalcin in Leydig cells. This is, in my opinion, a true ground breaking work; he has continued this line of work and made, in a recently published paper, the observation that osteocalcin regulation of fertility is conserved in humans.

The post-doctoral stay of Franck in my lab culminated in the third project that was recently published and that will serve as the basis of his application. I should state that this project relied ENTIRELY on Franck's expertise in neuroscience and remarkable ability to always hook up with the right person in the seemingly gigantic neuroscience community at Columbia University. In short, Franck showed that osteocalcin regulates neurotransmitter synthesis and cognition in rodents. He further extended the significance of his work by demonstrating that maternal osteocalcin is necessary for hippocampal development and the establishment of memory in the offspring.

The work that Franck Oury has done has the potential to identify treatments for several degenerative diseases, chief among them being age-related decline in cognition. For having worked closely with Franck for 7 years I am confident that his laboratory, now open at Necker Hospital in Paris, will be at the forefront of the study of brain development and functions by hormone produced by peripheral organs.

Contributed by Gerard Karsenty



STUDENTS FUNDED BY ISMB TRAVEL GRANTS

The following ISMB Travel Awards for 2014 have been made:

Chrisostomi Gialeli (University of Patras, Greece) - chrisostommy@gmail.com

Christine Chuang (Heart Research Institute, Newtown, Australia) - christine.chuang@hri.org.au

Joana Caldeira (University of Porto, Portugal) joana.caldeira@ineb.up.net

to attend the 1st MBE (Matrix Biology Europe) Meeting, June 21-24, 2014; Rotterdam, The Netherlands and

Aurijit Sarkar (Virginia Commonwealth University, Richmond, VA) - sarkara@mymail.vcu.edu

Elisa Migliorini (Joseph Fourier University, Grenoble, France) - elisa.migliorini@ujf-grenoble.fr

to attend the Gordon Research Seminar followed by the Gordon Research Conference on Proteoglycans, July 5-11, 2014, Proctor Academy Andover, NH, USA.

MATRIX BIOLOGY EUROPE, June 2014

I had the great pleasure of participating in the MBE Europe 2014 recently held in Rotterdam, The Netherlands, where I presented my ongoing work. The programme covered a wide variety of extracellular matrix biology themes - from posttranslational modifications to mutations, from synthesis to degradation, from physiology to pathology, from techniques to data mining, and from receptors to ligands. These aspects were presented by an outstanding mix of speakers – senior, junior, students. The most important achievement of the MBE Europe 2014 meeting was to bring together scientists from life sciences on an important and rapidly developing “matrix biology” scientific field and create the environment for a superb science, warm collegiality, and an all-around rewarding experience during the meeting. Personally, I had the opportunity to interact with top-notch scientists, helping me to go a step forward my research, as well as broaden my knowledge concerning fellowship opportunities for the future.

Gialeli Chrisostomi, University of Patras, Patras, Greece

PROTEOGLYCAN GORDON RESEARCH SEMINAR AND CONFERENCE, July 2014

As soon as I arrived at the Proteoglycan Gordon Research Seminar (GRS), I immediately perceived a unique environment with true friendliness and warmth accompanied by a special scientific atmosphere. I felt at home being so well welcomed by the community of about 40 PhD students and Post-Docs, some of them having participated in the conference before. This same atmosphere of great both scientific and human interactions extended for the whole GRS and GRC, leaving special memories that encourage me to participate again. Given the multidisciplinary nature of the seminar and conference, I strongly feel it is one of the best opportunities to facilitate cutting-edge ideas derived from the complementarity of Chemistry, Biology, Physics and Bioinformatics.

The GRS started with the keynote lecture of Pyong Woo Park (Children's Hospital, Harvard Medical School, Boston) who explained new pathogenic roles of Syndecan-1 and Syndecan-3, which are found to be related to several pathologies. Syndecan-1 and Syndecan-3 influenced the host-infection of pathogens (such as *S. aureus* and *S. pneumonia*) by different mechanisms. Working on Heparan Sulphate (HS) I found this talk instructive as well as the results shown by the group in Rice University, Houston, Texas regarding the key role of GAGs on aortic diseases, and the relation between exogenous TGF- β , ERK inhibition pathway and the homeostasis of GAGs. I was impressed by the level of all the presentations and by the talented young researchers I met. As an example the results of complex computational chemistry studies on the contribution of asparagine residues on the protein binding domain, it has been explained in a logic and easy-comprehensible manner. Presentations were followed by poster sessions where young researchers had the possibility to explain their projects and to freely interact with the other participants by lively discussions. It was during that occasion that I found several ideas for my project and important contacts that have already turned in collaborations.

As Post Doc at the Département de Chimie Moléculaire, at the Université Joseph Fourier, Grenoble, France, I was proposing a new method to characterize the interaction between protein and HS immobilized on bio-mimetic surfaces by the use of surface sensitive techniques such as Quartz Crystal Microbalance (QCM-D). With my group, we observed



that some HS binding proteins cross-link the HS chains. The use of our bio-mimetic substrates interested several great scientist working on proteoglycans clusterization and their downstream signal activation.

The unique collaborative environment that I experienced in proteoglycan GRS and GRC was an enriching experience that I hope to repeat in 2016.

Elisa Migliorini, Joseph Fourier University, Grenoble, France

PROTEOGLYCAN GORDON RESEARCH SEMINAR AND CONFERENCE, July 2014

My position as a postdoctoral fellow with Umesh Desai's group at Virginia Commonwealth University enabled my foray into the proteoglycans arena and my subsequent attendance at the related Gordon Research Conference (GRC) and Seminar (GRS) in 2014. This was my first GRC and I found it lived up to expectations. There have been few instances when I felt intrigued by a conference even *AFTER* it had already ended. The science was at the cutting edge, which allowed me to gain a perspective on current challenges in the field. Being from a computational background, I found there are several areas I could contribute to. In hindsight, this made it all the more important that I attended this meeting.

One observation I made was the diversity amongst attendees at this meeting. A large number of participants were from various European countries, including Germany, Italy, Norway, Denmark, Finland, Sweden and the UK. We also had people from Australia, Japan and China. There were biologists, chemists and computational chemists among us. We heard several excellent talks by stalwarts in the field, but I would like to lay focus on a few presentations by younger researchers that were personally intriguing to me. Elisa Migliorini from Grenoble, who won an ISMB Young Scientist Award for her work, presented a very interesting technique that measures the biomechanical effects of glycosaminoglycan-protein interactions in the cellular matrix. This was my first experience of the technique and it parallels quite well with my work. Also, presentations on biomaterials (Brooke Farrugia, University of New South Wales), nanotechnology (Mausam Kalita, University of Utah), stem cell migration (Becky Holley, University of Manchester), processing of decorin (Ute Pickhinke, University of Kiel), autophagy in the endothelial cells and mitophagy in breast cancer (Annabel Torres & Tom Neill respectively, Thomas Jefferson University) also deserve special mention.

My research focusses on understanding the role of water in glycosaminoglycan-protein interactions. I was glad to see many demonstrate an interest in my views. While their approval was flattering, in-depth discussions with them also helped me evaluate my results in better light and estimate its true worth in the field. We are currently in the process of finalizing our manuscript by incorporating suggestions from fellow attendees and hence I must extend my sincerest gratitude to them.

Proteoglycans is a very diverse and difficult area of research, which incorporates such a varied range of techniques, it is not possible for any one laboratory to be self-sufficient in all of them. Thus, collaborative efforts are essential. Such partnerships are key to meaningful research in today's world – it is no longer possible for segregated laboratories to perform self-contained work and still be relevant on a global scale. Relevance is, obviously, the sacrosanct requirement for funding by any agency across the globe. Despite limited experience in proteoglycans, I can safely say this is one area that truly possesses the essence of collaborative research, and that the Gordon Research Conference/Seminar serves as a great platform to facilitate the same. Barring any untoward incidences, I will definitely attend again in 2016.

Aurijit Sarkar, Virginia Commonwealth University, Richmond, VA, USA



MATRIX BIOLOGY

A message on Progress from the Editor-in-Chief

I would like to give you an update on the activities and initiatives of our journal *Matrix Biology*.

1. The number of submissions is continuously increasing and this is a good sign.
2. The impact factor has jumped from **3.19** in 2012 to **3.648** in 2013. Initial estimates for 2014 are great, suggesting a more drastic increase.
3. We have published two Special issues: one on Proteoglycan Biology edited by Liliana Schaefer (<http://www.sciencedirect.com/science/journal/0945053X/35>) and one on Matricellular Proteins edited by Joanne Murphy-Ullrich (<http://www.sciencedirect.com/science/journal/0945053X>).
4. A new Special Issue on MMPs edited by Bill Parks and Suneel Apte is in the works.
5. A thematic mini-review series on Heritable Disorders of Connective Tissue, edited by Jouni Uitto, was published earlier this year and is highlighted in a pod on the journal web page.
6. A thematic mini-review series on Cartilage edited by Maurizio Pacifici will soon be published.
7. Finally, we have provided (and plan to continue to do so in the future) free advertisements for various meetings of matrix biology.

I hope you will send your best research to the journal.

Renato V. Iozzo, M.D.

Editor-In-Chief, *Matrix Biology*

POSITIONS AVAILABLE

In previous issues, we have run a Section on Positions available – this has changed.

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). (If you do not have this key site 'bookmarked' why not do this right now?)

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/>). If you are looking for opportunities also check out our website.

Also, as noted in the previous Newsletter, 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 that keeps members of the extracellular matrix community informed by providing the latest news from all areas of the field, from science, research and business, to regulatory affairs. The ISMB web site (www.ismb.org) now includes a link to "Extracellular Matrix News: on the welcome page. (<http://www.extracellularmatrixnews.com>)

International
Society *for*
Matrix Biology





WELCOME TO MEMBERS OF ISMB

We welcome the following new and returning members who have joined ISMB since the previous newsletter earlier this year:

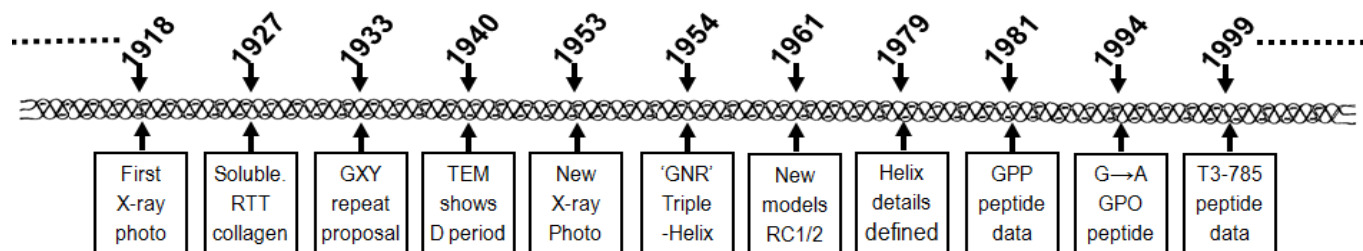
Cyril Anastasi (Graduate student, CNRS/UCBL UMR5305, Lyon, France)
Peter Bell (Research Associate, Newcastle University, Newcastle-upon-Tyne, UK)
Joana Caldeira Post-doctoral Fellow, Institute of Molecular Pathology and Immunology, Porto, Portugal)
Atul Goyal (Post-doctoral Fellow, Thomas Jefferson University, Philadelphia, USA)
Martin Harmsen (Associate Professor, University Medical Center, Groningen, The Netherlands)
Katja Heinemeier (Senior Researcher, Institute of Sports Medicine, Copenhagen, Denmark)
Andreas Herchenhan (Graduate student, Institute of Sports Medicine, Copenhagen, Denmark)
Benoit Langlois (Post-doctoral Fellow, INSERM Unit 1109, Strasbourg, France)
Elisa Migliorini (Post-doctoral Fellow, Centre for Cooperative Research in Biomaterials, Donostia-san-Sebastian, Spain)
Franck Oury (Group Leader, INSERM Unit 1151, Paris, France)
Alejandra Ruiz-Zapaka (Graduate student, University Medical Center, Amsterdam, The Netherlands)
Aurijit Sarkar (Post-doctoral Fellow, Virginia Commonwealth University, Richmond, VA, USA)
Spyridon Skandalis (Lecturer, University of Patras, Patras, Greece)
Georgios Theocharidis (Graduate student, School of Medicine and Dentistry, London, UK)
Sander van Putten (Post-doctoral Fellow, University Medical Center, Groningen, The Netherlands)
David Yeung (Graduate student, Ohio State University, Columbus, OH, USA)

MEMBERSHIP

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 of the Society receive twice yearly newsletters highlighting recent research advances, open positions, descriptions of matrix biology resources, and announcements of relevant meetings, together with messages from the ISMB President. Members are entitled to special discount rates at major international meetings in Europe, the Americas and Asia/Oceania. ISMB also sponsors travel grants for young scientists to attend these and other 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 and also sponsors the Distinguished Investigator Award for lifetime achievements in the field. 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. For further information, please see www.ismb.org.

MATRIX BIOLOGY RESOURCES: TIMELINES

We propose that the matrix biology community develop Timelines for key discoveries in our field. These would be made available through the ISMB Website. Timelines could focus on individual components of the ECM, such as elastin, proteoglycans, collagen, or could highlight specific aspects, such as structure, genetic diseases, function. A preliminary example for collagen structure is given below. If you are interested in becoming part of a moderating group to assemble a Timeline for your matrix area/molecule, or have comments, please contact John (John.ramshaw@csiro.au).





MATRIX MEETING ANNOUNCEMENTS

VII Nordic Connective Tissue Society Meeting

October 2-3, 2014

Helsinki, Finland

Website: <http://www.sidekudostutkijat.fi/>

Cardiovascular Extracellular Matrix in Health and Disease

October 6- 8, 2014

Baeza, Spain

Website: <http://www.unia.es/content/view/3769/1021>

American Society for Matrix Biology, Biennial Meeting (ASMB)

October 12- 15, 2014

Cleveland, OH

Website: http://www.asmb.net/2014_meeting.php or contact: Kladuca@faseb.org

7th International Conference on Osteoporosis and Bone Research

October 16-19, 2014

Xiamen, China

Website: <http://www.ibmsonline.org/index.php?mo=cm&op=ld&fid=231>

Asia Pacific Orthopaedic Association

October 23 – 25, 2014

Pattaya, Thailand

Website: <http://www.apoa2014.com/>

38th Annual Meeting, Matrix Biology Society for Australia and New Zealand (MBSANZ)

October 26 – 29, 2014

Queenscliff, Victoria, Australia

Website: www.mbsanz2014.com.au

Bone and Cartilage: from Development to Human Diseases (A CSH Asia Conference)

November 3-7, 2014

Suzhou, China

Website: <http://www.csh-asia.org/2014meetings/Bone.html?CFA>

World Alliance Forum in San Francisco – The Impact of Regenerative Medicine 2014

November 6 -7, 2014

San Francisco, California

Website: <http://wafsf.org/2014-conference/program>

Matrix Biology Ireland (*supported by ISMB*)

November 19-21, 2014

Galway, Ireland

Website: <http://matrixbiologyireland.wordpress.com/meeting-mbi/>



TERMIS-AM

December 13 -16, 2014

Washington, DC

Website: <http://www.termis.org/am2014/>

Gordon Research Seminar on Cartilage Biology and Pathology

March 21-22, 2015

Website: <https://www.grc.org/programs.aspx?id=16974> followed by

Gordon Research Conference on Cartilage Biology and Pathology

March 22-27, 2015

Galveston, TX, USA

Website: <https://www.grc.org/programs.aspx?id=13111>

European Congress on Osteoporosis and Osteoarthritis – International Osteoporosis Federation

March 26-29, 2015

Milan, Italy

Website: <http://2015.wco-iof-esceo.org/>

Location, Location, Location: the matrix and the microenvironment (BSMB)

March 30 -31, 2015

Oxford, United Kingdom

Website: <http://www.bsmb.ac.uk/meetings/spring-2015-meeting-location-location-location-the-matrix-and-the-microenvironment/>

4th Joint Meeting of ECTS & IBMS

April 25-28, 2015

Rotterdam, The Netherlands

Website: <http://www.ects-ibms2015.org/>

2015 Osteoarthritis Research Society International (OARSI) World Congress

April 30 – May 3, 2015

Seattle, WA, USA

Website: <http://2015.oarsi.org/>

Gordon Research Seminar on Fibronectin, Integrins and Related Molecules

May 9-10, 2015

Website: <https://www.grc.org/programs.aspx?id=14721> followed by

Gordon Research Conference on Fibronectin, Integrins and Related Molecules

May 10-15, 2015

Lucca (Barga), Italy

Website: <https://www.grc.org/programs.aspx?id=11304>



Gordon Research Seminar on Tissue Repair and Regeneration

June 6-7, 2015

Website: <https://www.grc.org/programs.aspx?id=14873> followed by

Gordon Research Conference on Tissue Repair and Regeneration

June 7-12, 2015

New London, NH, USA

Website: <https://www.grc.org/programs.aspx?id=12412>

21st Canadian Connective Tissue Conference

2015

Québec City, Canada

<http://connective-tissue-canada.com/cctc-2015/>

2015 International Society for Hyaluronan Sciences

June 7-11, 2015

Florence, Italy

Website: <http://www.ishas.org/2015-ha-conference>

7th International Conference on Children's Bone Health (ICCBH)

June 27-30, 2015

Salzburg, Austria

Website: <http://www.iccbh.org/>

Gordon Research Seminar on Collagen

July 11-12, 2015

Website: <https://www.grc.org/programs.aspx?id=14697> followed by

Gordon Research Conference on Collagen

July 12-17, 2015

New London, NH, USA

Website: <https://www.grc.org/programs.aspx?id=12175>

Gordon Research Seminar on Elastin, Elastic Fibers and Microfibrils

July 25-26, 2015

Website: <https://www.grc.org/programs.aspx?id=14713> followed by

Gordon Research Conference on Elastin, Elastic Fibers and Microfibrils

July 26-31, 2015

Biddeford, MA, USA

Website: <https://www.grc.org/programs.aspx?id=11199>

Gordon Research Seminar on Matrix Metalloproteinases

August 1-2, 2015

Website: <https://www.grc.org/programs.aspx?id=14769> followed by

Gordon Research Conference on Matrix Metalloproteinases

August 2-7, 2015

Newry, ME, USA

Website: <https://www.grc.org/programs.aspx?id=12358>



9th International Conference on Proteoglycans

August 24 - 27, 2015

Seoul, Korea

Website: *under construction*

Bone Research Society 2015 (joint with the British Society for Matrix Biology)

September 1 -3, 2015

Edinburgh, United Kingdom

Website: <http://www.brsoc.org.uk/>

Matrix Pathobiology, Signaling & Molecular Targets: FEBS Advanced Lecture Course

September 24-25, 2015

Rhodes, Greece

Website: <http://www.febs-mpst2015.upatras.gr/>

9th General Meeting of the International Proteolysis Society

October 4-8, 2015

Penang, Malaysia

Website: <http://proteolysis2015.org/>

American Society for Bone and Mineral Research

October 9-12, 2015

Seattle, USA

Website: <http://www.asbmr.org/Meetings/FutureAnnualMeetings.aspx>

20th Annual Meeting, The Connective Tissue Oncology Society

November 4-7, 2015

Salt Lake City, UT, USA

Website: <http://www.ctos.org/meeting/FutureMeetings.asp>

Matrix Biology Europe

June 11-14, 2016

Athens, Greece

Website: *under construction* (http://www.eumb.eu/meetings_gree.html)



You may have seen above that these days, most of the Gordon Research Conferences are preceded by Gordon Research Seminars at the weekend.

From: Jessica Trombetta-eSilva and Pauline Nauroy

We are pleased to announce the next Gordon Research Seminar (GRS) on Collagens, The Collagen Superfamily: Lessons from Biochemistry, Development and Inflammation that will take place July 11th-12th. This 2-day conference is dedicated to masters, PhD and post-doctoral students, and is a unique opportunity for students to present their undergoing work in an international conference and to participate in the Gordon Research Conference (GRC) on Collagens (July 12th-17th) which immediately follows the Collagen GRS.

The organization of the Seminar is in progress. At the moment, Prof. Bjorn Olsen has been chosen as a keynote speaker and the three session subjects will be: Collagen Biosynthesis and Trafficking, Collagens in Development and Regeneration, and Collagens in Inflammation and Immune Response. The senior discussion leaders, respectively, will be Johanna Myllyharju, Marion Gordon and Daniel Greenspan, who have also confirmed their participation in the GRS. Student discussion leaders will be chosen from the submitted abstracts as we get closer to the meeting. We are currently focusing on fundraising, a challenging but exciting job! Fortunately, Sergey Leikin and Florence Ruggiero, the two GRC chairs, are available to help us with any questions we have while planning this exciting seminar. Finally, we are convinced that the success of this meeting will depend on participants and we hope you will be able to join us!

For further information on the meeting and to submit your abstract, please visit the GRC website <https://www.grc.org/programs.aspx?id=14697> or do not hesitate to contact us.

Jessica Trombetta-eSilva, trombet@musc.edu and Pauline Nauroy, pauline.nauroy@ens-lyon.fr

Help Please!

Please send announcements on forthcoming Matrix Biology meetings to:
David Hulmes, david.hulmes@ibcp.fr, for inclusion on the ISMB Website
and/or

Barbara Brodsky, b.brodsky@tufts.edu, for inclusion in the Newsletter





Matrix Biology Society
of Australia & New Zealand

Matrix Biology Society of Australia and New Zealand
38th Annual Scientific Meeting
 26-29 October 2014
 Vue Grand Hotel, Queenscliff



<http://mbsanz2014.com.au/>



Matrix Biology Ireland:
From Pathophysiology to Therapy
 19th – 21st November 2014
 Biosciences Building, NUI Galway





WCO-IOF-ESCEO | MILAN 2015
 March 26-29 2015 | Milan, Italy

WCO-IOF-ESCEO MILAN 2015
 World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases

International Osteoporosis Foundation 



ECTS
IBMS

4th Joint Meeting of
ECTS and IBMS

Rotterdam, The Netherlands
 25 - 28 April 2015



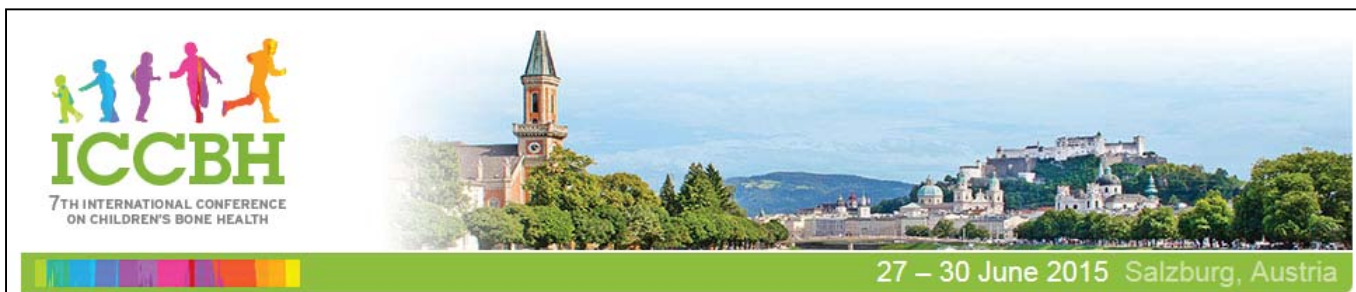
CELEBRATING 25 YEARS OF OSTEOARTHRITIS RESEARCH 2015

OARS
 WORLD CONGRESS ON OSTEOARTHRITIS

SEATTLE, WASHINGTON
 April 30 – May 03, 2015
 Washington State Convention Center



10th International Conference
HYALURONAN
2015
 Florence, Italy
 7–11 June 2015



ICCBH
 7TH INTERNATIONAL CONFERENCE ON CHILDREN'S BONE HEALTH

27 – 30 June 2015 Salzburg, Austria