

Newsletter, interLink

Tissue Engineering and Regenerative Medicine International Society, Inc.

Letter from the Editor

Dear TERMIS Members,

It is well known in the biomedical arena that areas of scientific research that generate intense interest from other academics and industry players tend to be perceived as the most promising, are particularly well funded and are more likely to result in commercial discoveries. We as scientists, engineers and clinicians in the field of tissue engineering and regenerative medicine work very hard to provide quantitative and qualitative support for continued, focused studies of clinical applications and relevance.

On the other hand important for the field is an understanding of the research, so it can be flawlessly relayed to entice corporations and small companies that are looking for future innovation breakthroughs and venture capitalists looking to allocate investment. In contrast, governments are interested in promoting emerging science to create jobs and researchers are hoping to work on promising topics and to publish in top journals in the field.

The conferences of our society are an ideal meeting place to discuss and evaluate the above, not only for our members, but also the different stakeholders in tissue engineering and regenerative medicine. We have an exciting year ahead of us with chapter meetings in Ireland (TERMIS-EU), Australia (TERMIS-AP) and Orlando (TERMIS-NA). I encourage all members to attend at least one of the meetings this year and I look forward to meeting you in person.

Yours sincerely,
Dietmar W. Hutmacher, PhD, MBA

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Queensland University of Technology

Sarah Wilburn
TERMIS Administrator



Reports from the SYIS Chairs

TERMIS SYIS-AP

Greeting from TERMIS SYIS-AP!

Dear Friends and Colleagues,

Welcome to the latest issue of TERMIS newsletter! The second elections for TERMIS-SYIS concluded in December 2009, generating a new batch of student representatives, and we now look forward to a successful term ahead. Through the hard work of the previous committees, TERMIS-SYIS is now a burgeoning community comprising members from various institutions spanning the continents; we will now strive to maintain these high standards in networking young scientists and tissue engineers from different corners of the world.

As part of our efforts to facilitate interactions between scientists, we have initiated [Facebook](#) groups and look forward to connecting young researchers via cyberspace.

In addition, we'd like to invite you to the TERMIS-AP 2010 Annual Conference, to be held on 15 -17 September, in the beautiful city of Sydney in Australia. We have lined up a series of social events including a "Meet the Experts" session where students and young investigators will be given the opportunity to engage leading researchers in casual settings. So please join us to catch up on the latest trends and advances in the field of tissue engineering and regenerative medicine.

Last, but not least, we would like to invite enthusiastic and like-minded individuals to join us in serving the SYIS-AP community. Specifically, we are currently recruiting candidates for the positions of Treasurer and Secretary in the SYIS AP chapter. Please do not hesitate to contact us if you are interested in these positions.

To the SYIS community at large, we look forward to your continued participation and valuable contributions towards TERMIS-SYIS and the dynamic field of Tissue Engineering and Regenerative Medicine.

Best regards,

Zhiyong Zhang (Chair)

Mark Chong (Vice-Chair)

TERMIS SYIS-EU

Dear Students and Young Investigators of the European space,

As you know, there were recently elections in TERMIS which included of course the SYIS. We, the newly elected members of the TERMIS SYIS-EU council, would like to greet you, thank you for your confidence and publicly state our commitment in making the SYIS-EU increasingly better at fulfilling its objectives. We wish to indeed provide you a privileged means through which you can interact with other young researchers to learn and accomplish your goal of becoming a better investigator. Networking is essential for this, so taking the good example of the North American SYIS, we created a Facebook page we encourage you to [join](#). The SYIS-EU Facebook page will be the location where news and job opportunities, for instance, can be more immediately available to you.

The Galway TERMIS-EU meeting is rapidly approaching and we are setting up SYIS activities that we hope you can join. Please check the section below that provides further information on the activities.

Finally, we would like to acknowledge the fantastic work made by the previous SYIS-EU council: Catarina Alves, Eric Farrell, Miguel Oliveira and Yvonne Bastiaansen. We hope that our performance can be at least as good.

Best regards,

Rogério Pirraco (Chair)
Paul Geutjes (Vice-chair)
Dennis Link (Treasurer)
Lise de Jonge (Secretary)

Events Organized by TERMIS-EU SYIS at Galway Meeting

(Check the latest news at <http://www.termis.org/eu2010/syis.php>)

The Student and Young Researchers Section (SYIS) of TERMIS-EU are pleased to organize several events at the forthcoming meeting in Galway. The role of SYIS is to help and encourage young researchers to network and interact with experts in the field and to foster personal professional development.

WE LOOK FORWARD TO YOUR PARTICIPATION!

Student Awards

Awards for the best abstracts in the form of 50% of registration fee will be judged by the review committee. There will be additional awards for best poster and oral presentations also. Details will be announced soon.

Student Meet Mentor

Students and young investigators would get a chance to interact with world-renowned academic and industrial investigators in the field of Tissue Engineering & Regenerative Medicine. This will be an opportunity for students and young investigators to have their questions answered by established research leaders, in a relaxed and open discussion. The list of mentors and their biodata will be available soon on this webpage. Students and young investigators will be assigned to a group based on their mentor preferences. Selections will be made on a first-come-first-serve basis.

SYIS Careers Section

The Meeting Career center aims at enhancing professional opportunities for the attendees of the upcoming TERMIS-EU Galway meeting.

Scientific Co-chair

This will offer SYIS members the opportunity to co-chair a session of their interest with a leader in the field of tissue engineering and regenerative medicine. Details will be available soon.

SYIS-EU General Meeting

The annual TERMIS SYIS-EU general meeting is open to all students and young investigators. Attend this meeting to learn how to get involved in SYIS!

SYIS Welcome Reception

Come to the SYIS Welcome Area at the TERMIS-EU Conference Welcome Reception to meet students and young investigators from around the world who are attending the TERMIS-EU Meeting. Find out more about SYIS and sign up for SYIS events!

SYIS Irish Experience

Your experience in Irish couldn't get more Irish than this! Prepare to pour your own pint of Guinness, learn to play the bodhrán and a tune on an Irish tin whistle. If you're not too busy you might also get a chance to learn some Irish dancing. You will also get a chance to practice a few words as Gaeilge (in Irish). This activity will take place in a traditional teach tábhairne (pub!) in Galway and promises to be a great event.

Looking forward to seeing you in Galway!
Michael Monaghan (michael.monaghan@nuigalway.ie)
2010 TERMIS-EU SYIS Meeting and Fundraising Chair

Rogério Pirraco (rpirraco@dep.uminho.pt)
Paul Geutjes (p.geutjes@uro.umcn.nl)
Dennis Link (dlink@dep.uminho.pt)

**TERMIS-SYIS North America Comment:
Impact of the current economic climate on TERM careers**

Following a storm that struck the tissue engineering industry in the early 2000s, the potential capital value of these businesses melted down from billions of dollars to the reality of a few million, or even less. With just a few small companies remaining, the industry has grown smarter within the last decade. Ten years on, we find ourselves in the midst of an even larger downturn and with only a handful of small companies still doing business, it is legitimate to ask: is there hope for tissue engineers to find jobs in industry or is a safer bet to stay in academia?

When the promise of tissue engineering first hit the headlines and public imagination nearly twenty years ago, the field was hailed as the successor to genetic engineering in scale. As with any new technology there will be the early adopters, and start-up companies to satisfy the demand, but similarly, many of those initial companies would not survive. There was no doubt in the potential market, but the labor-intensive products made it difficult for appropriate business models and many technologies are still many years from commercialization. Seemingly, as every new discovery is made in TERM, another layer of complexity is found with it. This brings fresh challenges that many young researchers wish to rise to, however, especially within the members of the TERMIS-SYIS, many concerns remain.

The beauty of TERM is the collaborative nature of the field, by definition needing biomechanical and chemical engineers, stem cell biologists, immunologists, matrix biologists and many more besides, creating a wealth of different approaches and positions. Academia currently provides these positions and meetings like TERMIS contribute to the networking and collaboration essential to the research. This also means that new grant applications can draw on a variety of expertise, and be submitted to different funding bodies depending on the research arenas involved. Many major grants are still funded in TERM and stimulus funds extend until the fall of 2010, but effects of the recession, on both publicly- and privately-funded academic institutions are being felt. Industry is not immune to these effects either, experiencing many jobs lost. However, positions in these institutions should not be overlooked. Strategic planning of TERM companies is now more focused, concentrating on manufacturing fewer products on which they have expertise and that are closer to the market. Translation of new TERM technologies over the next decade will be imperative, but what is most encouraging is that the field is still expanding and will be fed by talented young researchers.

Although the safest positions could still be in academia, industry positions may provide exciting challenges. As TERMIS-SYIS NA wishes to help its members in finding the right place for them in both fields, we will continue to promote our networking efforts through our [Facebook](#) page and the TERMIS-SYIS website, including academic and industry links. Furthermore, a luncheon with academic supervisors and a panel discussion with industry will be organized at the North American TERMIS meeting in Orlando in order to promote exchanges and to allow young investigators to appreciate the benefits of pursuing a career in the field of tissue engineering. We are expecting that these events will generate positive outcomes for both panelists and TERMIS-SYIS member and hope you will be able to join us for those great events.

Sincerely,

Maxime Guillemette (Chair)
Syed-Hadi Mirmalek-Sani (Vice-Chair)
Dhev Raghavan (Secretary)
Robert Gauvin (Treasurer)

TERMIS 2010 Chapter Meetings



TERMIS-EU 2010 Galway Conference 13-17 June 2010

EARLY BIRD REGISTRATION CLOSING 31ST MARCH 2010
[BOOK NOW !!](#)

CONFERENCE PROGRAMME

To view a copy of the preliminary programme including symposia listings [click here](#).

TO EXHIBIT OR BECOME A SPONSOR OF TERMIS-EU 2010

For further information [CLICK HERE](#) Or Email T2010EXPO@KEYNOTEPCO.IE

Exhibition and sponsorship opportunities still available. Please note that Exhibition Space is limited and is based on a first come, first served basis!

We look forward to welcoming you to Galway in June 2010.

For any queries you may have, please contact:

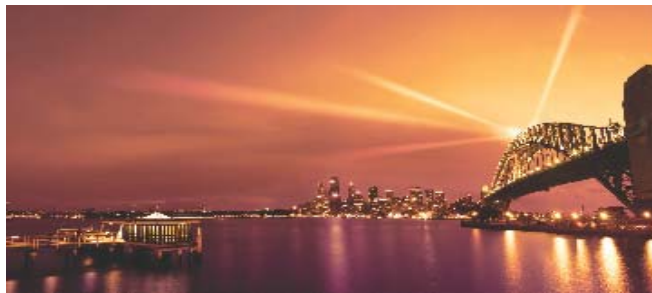
Conference Secretariat
TERMIS-EU Galway, Ireland
13-17 June, 2010
Email: TERMIS2010@keynotepco.ie
Tel: + 353 1 4003660
Fax: +353 1 4003692





**TERMIS-AP 2010 Sydney
Conference**

15-17 September 2010



**Tissue Engineering & Regenerative
Medicine International Society
2010 asia pacific meeting**

15 – 17 September 2010
Sheraton on the Park, Sydney, Australia

We invite you to submit your abstracts for consideration of presentation at the TERMIS-AP 2010.

DEADLINE FOR THE CALL FOR ABSTRACTS: 30 APRIL 2010

Submit your abstract [TODAY!](#)

CALL FOR SYMPOSIA: [Symposia Form](#)

**There is still time to submit symposia.
The deadline is 14 April 2010.**

Questions about participating, exhibiting or sponsoring please contact:

TERMIS AP 2010 Secretariat

Ms Rebecca Southcott

C/- Conference Action Pty Ltd

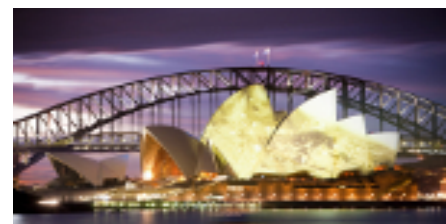
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termis

North America 2010 - Orlando, Florida - December 5-8



"Where Discovery Meets Innovation"

TERMIS-NA 2010 Annual Conference

December 5-8, 2010

Hilton in the WALT DISNEY WORLD® Resort

Orlando, Florida

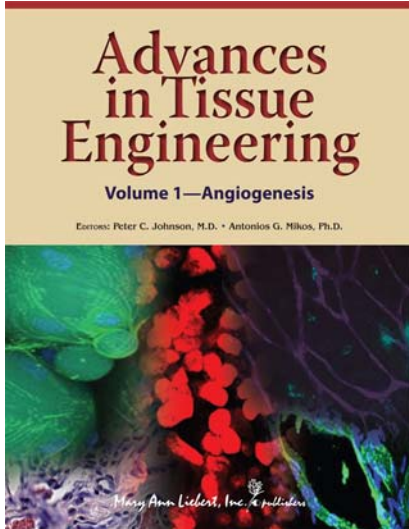
ABSTRACT SUBMISSION

OPENS

APRIL 1, 2010

To view further information, please visit the TERMIS-NA 2010 Orlando conference [website](#).

Advances in Tissue Engineering, Volume 1: Angiogenesis



Announcing a new book series and a special offer for TERMIS members! *Advances in Tissue Engineering* – synthesizing the critical advances in the field


Each volume of this cutting-edge book series focuses on in-depth coverage of a specialized area of tissue engineering science. Available now, ***Advances in Tissue Engineering, Volume 1: Angiogenesis*** focuses on angiogenesis and vasculogenesis, and the process of development of new blood vessels for further growth.

[Click here](#) to view the Table of Contents, and to read a sample chapter.

The [second volume](#), ***Advances in Tissue Engineering, Volume 2: Stem Cells*** focuses on the important role of stem cells in the process of tissue engineering, and will publish in May.

We are pleased to offer TERMIS members a special per volume price of \$199 US (a \$295 value) to purchase each of the valuable books in this series. To take advantage of this 32% discount and order your copy of ***Volume 1*** today click [US order](#) or [outside US](#).

To reserve your copy of ***Advances in Tissue Engineering, Volume 2: Stem Cells*** and receive your copy immediately upon publication send an email to prepub@liebertpub.com. Please provide your shipping and billing details to place your order and include **ATEN2** in the subject line. Your credit card will not be charged until the book is published in May 2010.

Mary Ann Liebert, Inc.  publishers

Tissue Engineering, Parts, A, B & C

Tissue Engineering, Parts A, B, & C - The Official Journal of TERMIS Expanding to 24 issues in 2010!

Members of TERMIS may purchase a print subscription to the journal, *Tissue Engineering, Parts A, B, & C*, at a discounted membership rate. The Journal is published by Mary Ann Liebert, Inc., publishers, and is the Official Journal of TERMIS (Tissue Engineering and Regenerative Medicine International Society). TERMIS has no affiliation with the journal entitled *Tissue Engineering and Regenerative Medicine* published by John Wiley & Sons.

For further information on the journal, *Tissue Engineering, Parts A, B, & C*, and to view information on other journals published by Mary Ann Liebert, Inc. please visit the [Tissue Engineering](#) website.

Tissue Engineering, Parts A, B, & C — 2010 Subscription Rates

Tissue Engineering is expanding in 2010 due to the continued increase in the numbers of excellent reviews and methods papers. *Part B: Reviews* and *Part C: Methods* will each publish 6 issues per year, in addition to the 12 issues of *Tissue Engineering, Part A*, for a total of 24 issues. *Tissue Engineering* (Part A) has traditionally focused on hypothesis-driven scientific reports. The *Reviews* and *Methods* journals enable the flagship *Tissue Engineering* to bring these valuable papers to the readership on a much larger scale. As the Official publication of TERMIS, Mary Ann Liebert, Inc., publishers is pleased to offer Members a special print subscription price to *Tissue Engineering, Parts A, B & C* to supplement their online access.

Special prices for TERMIS members to upgrade to a PRINT subscription:

Print: \$249.00 US & Canada; \$309.00 outside US

(Online Journal content is included with membership and available through TERMIS website)

Tissue Engineering, Part A

Co-Editors: Antonios G. Mikos and Peter C. Johnson

The flagship journal provides a fundamental understanding of structure-function relationships in normal and pathologic tissues with the ultimate goal of developing biological substitutes. The Journal brings together scientific and medical experts in the fields of biomedical engineering, biomaterials science, molecular and cell biology, genetic engineering, and surgery to present and discuss advances in this emerging field.

Tissue Engineering, Part B, Reviews

Co-Editors: John P. Fisher, Antonios G. Mikos, and Peter C. Johnson

This journal meets the urgent need for high-quality review papers due to the rapid expansion of the field. The Journal presents critical discussions, analyses, and concise summaries of research in different aspects of the field to assess where we are now and future directions.

Tissue Engineering, Part C, Methods

Co-Editors: John A. Jansen, Antonios G. Mikos, and Peter C. Johnson

This journal presents procedures and protocols that will be adopted by the tissue engineering community as the research is translated into clinical applications. Authoritative papers will bring consistency to the research methods employed and help the field grow and mature.

Regenerative Medicine Online Package

The publisher also offers a special Online subscription package that includes *Tissue Engineering, Parts A, B, & C*, as well as Cellular Reprogramming (formerly *Cloning and Stem Cells*), *Stem Cells and Development*, and *Rejuvenation Research* for \$449.00. If you are interested, please check the corresponding box that is included within the TERMIS online membership form.

Free Online Access to the Journal, Tissue Engineering - For Members Only!

[Click here to login and access the journal online.](#)

Encourage Your Institution to Subscribe to Tissue Engineering

If your institution does not currently subscribe to the journal, *Tissue Engineering, Parts A, B, & C*, we ask that you please complete the library recommendation form and fax to your institution's librarian encouraging them to subscribe to the journal today.

[Library Recommendation Form](#)

**Do not forget to view the listing of upcoming conferences
that have been endorsed by TERMIS.**

They begin on the next page.

Thank you!

Upcoming Conferences Endorsed by TERMIS

April 2010

- [Translational Regenerative Medicine Forum](#)
Forum Dates: April 6-8, 2010
Forum Location: Twin City Quarter, Winston-Salem, N.C.
For further information, please contact Jon Obermeyer, Conference Producer
Tel: 336.713.1155
Email: jon@regenerativemedicinefoundation.org
- [6th Symposium on "Biologic Scaffolds for Regenerative Medicine"](#)
Symposium Dates: April 25-27, 2010
Organizer/Chair: Stephen Badylak, DVM, PhD, MD
Symposium Location: The Silverado Resort, Napa Valley, California

May 2010

- [Clinical Translation of Tissue Engineering Technologies](#)
Symposium Dates: May 13-14, 2010
Symposium Location: Buenos Aires, Argentina
Symposium Venue: Hospital Universitario Austral
Deadline to submit your abstract: February 28, 2010
Contact Information: Gabriela Monti, gmonti@cas.austral.edu.ar or Alicia Lorenti, alicia.lorenti@gmail.com
[Clinical Translation of Tissue Engineering Technologies Flyer](#)
- [9th Annual Short Course - CTTE 2010](#)
"Cell-Based Therapies and Tissue Engineering"
Short Course Dates: May 17-21, 2010
Short Course Location: Cleveland, Ohio
Organized by: The Skeletal Research Center and the Department of Biology of Case Western Reserve University

June 2010

- [8th International Conference on Cell and Stem Cell Engineering \(ICCE2010\)](#)
Conference Dates: 11-12 June 2010
Conference Location: Trinity College Dublin, Ireland
Conference Chair: Prof. Alicia El Haj
Abstract deadline: 28th February 2010

July 2010

- [3rd Annual Business Education Course BEC 2010](#)
"The Business of Regenerative Medicine: From Stem Cells to the Market Place"
Course Dates: July 12-15, 2010
Course Location: Cleveland, Ohio

- [REMEDIIS 2010](#)
Conference Dates: 15-18 July 2010
Conference Location: Iasi, Romania
Conference Chair: Luminita Simion, MD

August 2010

- [2nd International Conference on Cellular and Molecular Bioengineering \(ICMB2\)](#)
Conference Dates: 2-4 August 2010
Conference Location: Singapore
Abstract Deadline: 30 April 2010
- [Advances in Tissue Engineering Short Course](#)
Short Course Dates: August 11-14, 2010
Short Course Location: Rice University, Houston, TX
Short Course Director: Antonios G. Mikos

September 2010

- [BIOSPINE 3 - 3rd World Congress on Biotechnologies for Spinal Surgery](#)
Conference Dates: September 1-4, 2010
Conference Location: Amsterdam, The Netherlands

October 2010

- [4th International Conference on Biofabrication](#)
Conference Dates: October 4-6, 2010
Conference Location: Drexel University
Co-organizers: Prof. Wei Sun and Prof. Gabor Forgacs
- [bone-tec 2010 - International Bone-Tissue-Engineering Congress](#)
Congress Dates: 7 – 10 October, 2010
Congress Location: Hannover, Germany
The call for symposia proposal application and abstract submission is already open.
Deadline for symposia proposal: 15 March, 2010
Deadline for abstract submission: 30 April, 2010
- [BioStar 2010](#)
4th Congress on Regenerative Biology and Medicine
Congress Dates: October 13-15, 2010
Congress Location: Stuttgart, Germany
Congress Organizer: Prof. Dr. Claus D. Claussen
- [ASMB 2010 Biennial Meeting](#)
Conference Dates: October 24-27, 2010
Conference Location: Marion Hotel, Charleston, SC
Organizer: Jean Schwarzbauer, Princeton University
Keynote: Elaine Fuchs, Rockefeller University

- [Fraunhofer Life Science Symposium Leipzig 2010](#)

Symposium Dates: October 29-30, 2010

Symposium Location: Leipzig, Germany

President: Professor Frank Emmrich

Themes: „Stem Cells for Immunotherapy, Immune Disease and Disorders“

November 2010

- [Biophysical stimuli and mass transport for tissue development](#)

"Biophysical stimuli and mass transport for tissue development; implications for in vitro model systems"

Symposium Dates: 18 and 19 November 2010

Conference Location: the Netherlands

This symposium is organized by the Dutch "Translational excellence in Regenerative Medicine" (TeRM Smart Mix) consortium (see www.TeRM.nu).