

18th International Pharmaceutical Technology Symposium

September 18 - 21, 2016
The Marmara Hotel
Antalya // Turkey

New Therapies, Delivery Technologies
and Manufacturing Science

With Special Industrial Sessions

Clinical Trials and Future Perspectives

Manufacturing and Localization of
Imported Pharmaceuticals

Biosimilars & Biotechnology Session

Novel Cell Culture Models In Pharmaceutical Research

Supporting Organizations

Welcome to Antalya

Dear Colleagues,

It's my great pleasure to welcome you to the **18th International Pharmaceutical Technology Symposium-IPTS 2016** in Antalya which will be held on 18 – 21 September, 2016 under the auspices of Hacettepe University.

IPTS 2016 will feature a theme of ***“New Therapies, Delivery Technologies and Manufacturing Science”*** and will consist of morning and afternoon sessions in each of 3 days for scientific sessions. There will be plenary lectures and session lectures given by the “Invited Speakers” from all around the world, IPTS 2016 Exhibition will also be carried out by industrial exhibitors.



The International Pharmaceutical Technology Symposium has been organized biennially since 1982 as a pioneer organization, with a boundless enthusiasm of the colleagues from the Department of Pharmaceutical Technology, Faculty of Pharmacy at Hacettepe University.

The IPTS has become a traditional and a very well-known scientific symposium in pharmaceutical technology field, with the precious supports and encouraging of our colleagues from all around the world and also the industrial partners in Turkey. My colleagues from the Organizing Committee and I hope and believe that, as achieved by the former symposia, the 18th IPTS will offer great opportunities to the scientists for discussing recent topics in the field, will bring the academia, industry and health authorities together for sharing their experiences, and will help all the participants from academia and industry to solve current problems and challenges in practice.

We are looking forward seeing you in Antalya-Turkey in a wonderful season of the Mediterranean for enjoying the “sea and sun” as well as the hot topics in science.

Yours Sincerely,
Prof. Sema Çalış
IPTS-2016 Chair

Organizing Committee

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Sema Çalış

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Programme at a Glance

18 th September 2016	19 th September 2016		20 th September 2016		21 st September 2016				
Hall-A	Hall-A	Hall-B	Hall-A	Hall-B	Hall-A	Hall-B			
Special Industrial Session Clinical Trials and Future Perspectives	Scientific Session -1		Scientific Session-2	Special Industrial Session Biosimilars & Biotechnology Session	Scientific Session-3	Special Industrial Session Novel Cell Culture Models In Pharmaceutical Research			
		Special Industrial Session Manufacturing and Localization of Imported Pharmaceuticals							
			20:00				16:00		
			Gala Dinner				Closing Ceremony		

Clinical Trials and Future Perspectives

Hall-A, September 18, 2016

08:30-09:30	Registration
09:30-09:40	Welcome remarks
	Session Chair: Taner Demirer
09:40-10:00	Pharmaceutical R&D ecosystem in Turkey Hakkı Gürsöz , Turkish Medicines and Medical Devices Agency – TİTCK, Turkey
10:00-10:20	On the way to our goal in clinical trials... Nihan Burul Bozkurt , Turkish Medicines and Medical Devices Agency – TİTCK, Turkey
10:20-10:40	Clinical studies of medical devices and new requirements Ali Sait Septioğlu , Turkish Medicines and Medical Devices Agency – TİTCK, Turkey
10:40-11:00	Coffee Break
	Session Chair: Mehmet Melli
11:00-11:20	Evolution of clinical trial designs Hamdi Akan , Ankara University, Turkey
11:20-11:40	The role of ethics committee in clinical research Mehmet Melli , Ankara University, Turkey
11:40-12:00	Clinical trials: Problems and opportunities Serhat Ünal , Hacettepe University, Turkey
12:00-12:20	A review of clinical phase studies and current problems in Turkey Taner Demirer , Ankara University, Turkey
12:20-12:40	Current problems in clinical trials from the view point of the researchers Ayşe Filiz Avşar Yavuz , Yıldırım Beyazıt University, Turkey
12:40-14:00	Lunch
	Session Chair: Serhat Ünal
14:00-14:20	Efficiency and excellence in clinical trial performance: How can we bring together Turkey to the top? Marta Arias-Salgado , Merck Sharp Dohme, Poland
14:20-14:40	Study placement – how the “data driven approach” works in Global Pharma Bridgitte Attwood , Pfizer, United Kingdom
14:40-15:00	Real time electronic site selection and patient recruitment Dominik Aronsky , Clinerion, Switzerland
15:00-15:20	Regional perspective on how to enhance clinical trials conduct in Turkey Safwan El Abbassy , Shire, Turkey
15:20-15:40	Coffee Break
	Session Chair: Ayşe Filiz Avşar Yavuz
15:40-16:00	Financial overview of the bioequivalence studies Onursal Sağlam , Novagenix, Turkey
16:00-16:20	Clinical trials in Turkey: Current status and expectations for the future Nurşah Çetinkaya , Association of Clinical Research, Turkey
16:20-16:40	Biosimilars: Clinical perspectives and challenges Senem Ertan - Ahmed , İlko, Turkey
16:40-18:00	Panel Discussion

*Session presentations will be in Turkish.

Hall-A, September 19, 2016

08:00-08:30	Registration
08:30-09:00	Opening Ceremony
	Session Chairs: Sema Çalış, Hamid Ghandehari
09:00-09:45	A hitchhiker's guide to bypassing infusion-related reactions to nanoparticles Sayed Moein Moghimi , Durham University, United Kingdom
09:45-10:15	Solid antisense oligonucleotide-loaded nano -in-nanoparticles for potential improvement of duchenne disease treatment Simon Benita , The Hebrew University of Jerusalem, Israel
10:15-10:45	Development of biodegradable dendrimers for drug delivery Peter W. Swaan , University of Maryland, United States
10:45-11:00	Coffee Break
	Session Chairs: Simon Benita, Yılmaz Çapan
11:00-11:30	Controlled release of therapeutic protein drugs using layer-by-layer technology Gerrit Borchard , University of Geneva, Switzerland
11:30-12:00	Innovative multifunctional zero order drug nano-delivery system for drug addiction and life span extension Salomon A. Stavchansky , The University of Texas at Austin, United States
12:00-12:30	Zein-based nanoparticles for oral delivery of actives Juan M. Irache , University of Navarra, Spain
12:30-14:00	Lunch
	Session Chairs: Süeda Hekimoğlu, Gerrit Borchard
14:00-14:30	Drug delivery with targeted nanoparticles: In vitro and in vivo evaluation methods Yılmaz Çapan , Hacettepe University, Turkey
14:30-15:00	Silk-elastinlike copolymers as liquid embolics and gene delivery systems Hamid Ghandehari , University of Utah, United States
15:00-15:30	The role of drug transporters in inhalation biopharmaceutics Carsten Ehrhardt , Trinity College Dublin, Ireland
15:30-15:45	Coffee Break
	Session Chairs: Sibel Pehlivan, Mustafa Sinan Kaynak
15:45-16:15	Impact of excipient variability on QbD Cihan Sancaktaroğlu , BASF, Turkey
16:15-16:45	Recent advances in continuous film coating process Manish Ghimire , Colorcon, United Kingdom

Manufacturing and Localization of Imported Pharmaceuticals

Hall-B, September 19, 2016

	Session Chairs: Hakan Eroğlu, Gazi Alataş, Vedat Eğılmez
14:00-14:20	Changing and evolving pharmaceutical policies Ali Alkan , Turkish Medicines and Medical Devices Agency – TİTCK, Turkey
14:20-14:40	Reimbursement policy of Social Security Institution and importance of local manufacturing Refik Altun , Republic of Turkey Social Security Institution - SGK, Turkey
14:40-15:00	The vision for 2023 and localization in Turkey Mete Hüsemoğlu , Association of Research-Based Pharmaceutical Companies – AİFD, Turkey
15:00-15:20	The supportive politics for local manufacturing of pharmaceuticals from the perspective of industry Vedat Eğılmez , Pharmaceutical Manufacturers Association of Turkey-İEİS, Turkey
15:20-15:40	Coffee Break
	Session Chairs: Hakan Eroğlu, Gazi Alataş, Vedat Eğılmez
15:40-16:00	Importance of accreditation from the perspective of localization Yücel Dener , Turkish Medicines and Medical Devices Agency – TİTCK, Turkey
16:00-16:20	Localization of pharmaceuticals; why, for what and how? Cengiz Celayir , Pharmaceutical Industry Association of Turkey-TİSD, Turkey
16:20-16:40	Political and economical basis of localization Elif Hilal Vural , Turkish Medicines and Medical Devices Agency – TİTCK, Turkey
16:40-17:00	Technical process of localization Nihal Yerlikaya , Turkish Medicines and Medical Devices Agency – TİTCK, Turkey
17:00-18:00	Panel Discussion

*Session presentations will be in Turkish.

Hall-A, September 20, 2016

	Session Chairs: Sevda Şenel, Hayat Önyüksel
08:30-09:15	New trends in biodetoxification Jean Christophe Leroux , ETH Zürich, Switzerland
09:15-09:45	Nano-perspectives for neuroregeneration Hakan Eroğlu , Hacettepe University, Turkey
09:45-10:15	Delivering nucleic acids to CD44-expressing cells: from hyaluronic acid- to aptamer-decorated nanocarriers Hervé Hillaireau , Paris-Sud University, France
10:15-10:30	Coffee Break
	Session Chairs: Erem Bilensoy, Hervé Hillaireau
10:30-11:00	Nanovectorisation of antimicrobial peptides Patrick Saulnier , Université D'Angers, France
11:00-11:30	Novel drug delivery to cancer stem cells Xiaochen Gu , University of Manitoba, Canada
11:30-12:00	Drug/cyclodextrin nanoparticles for topical drug delivery to the posterior segment of the eye Thorsteinn Loftsson , University of Iceland, Iceland
12:00-13:30	Lunch
	Session Chairs: Özgen Özer, Jean Christophe Leroux
13:30-14:00	siRNA nanomedicine against liver and kidney fibrosis Hayat Önyüksel , University of Illinois Chicago, United States
14:00-14:30	Self-emulsifying drug delivery systems: The key to oral administration of biologics? Andreas Bernkop-Schnürch , University of Innsbruck, Austria
14:30-15:00	Drug delivery across biological barriers for combatting infectious diseases Claus Michael Lehr , Saarland University, Germany
15:00-15:30	Selecting the optimum polymer and process to improve bioavailability Daniel Sieber , Ashland, Germany
15:30-15:45	Coffee Break
Presentations of IPTS 2016 PhD Thesis Award Candidates	
	Session Chairs: Yeşim Aktaş, Zeynep Şafak Teksin
15:45-16:00	Preparation and characterization of polymer nanotubular structures as drug delivery systems Aslıhan Hilal Algan , Ankara University, Turkey
16:00-16:15	Active targeting of anti-VEGFR-1 monoclonal antibody conjugated, gemcitabine loaded dendrimers to pancreatic cancer and in vitro-in vivo evaluation Kıvılcım Öztürk Atar , Hacettepe University, Turkey
16:15-16:30	Investigation of influence of diabetes on drug absorption and permeability Tuğba Gülsün İnal , Hacettepe University, Turkey
16:30-16:45	Development of a neuroprotective drug loaded nanoparticulate drug delivery system for the treatment of acute spinal cord injuries Yasemin Akyürek , Hacettepe University, Turkey
16:45-17:00	Quality by design studies and evaluation of lipid nanoparticles containing 5- fluorouracil in the treatment of skin cancers Gülin Amasya , Ankara University, Turkey

Biosimilars & Biotechnology Session

Hall-B, September 20, 2016

	Session Chairs: Sema Çalış, Gary Walsh, A. Filiz Öner
09:15-10:00	Biopharmaceuticals: Status, trends and future Gary Walsh , University of Limerick, Ireland
10:00-10:30	Bioeconomy and regulatory environment of biopharmaceuticals İsmail Mert Vural , Turkish Medicines and Medical Devices Agency – TİTCK, Turkey
10:30-11:00	Clinical studies of biosimilar products Henning Blume , SocraTec C&S GmbH, Germany
11:00-11:15	Coffee Break
	Session Chairs: R. Neslihan Gürsoy, Henning Blume
11:15-11:45	Biosimilars: Interchangability, substitution and switching A. Filiz Öner , Hacettepe University, Turkey
11:45-12:15	Clinical assessment of biosimilars F. Bilgen Beldüz , Turkish Medicines and Medical Devices Agency – TİTCK, Turkey
12:15-12:45	Regulatory approval standards on biosimilars in Turkey F. Handan Çelikel , Turkish Medicines and Medical Devices Agency – TİTCK, Turkey
12:45-14:00	Lunch
	Session Chairs: Nevin Çelebi, Senem Ertan-Ahmed
14:00-14:30	QbD approaches on biotech Duygu Dağlıkoca , İlko, Turkey
14:30-15:00	Manufacturing of future for biotech products Martine Nolan , Amgen, Turkey
15:00-15:30	Challenges with establishing a control strategy and specifications for biosimilar products Barbara Rellahan , Amgen, United States
15:30-16:00	Support for Sugar Chain Structural Analysis Glycan Analyzer Engin Bayram , Ant Teknik, Turkey
16:00-17:00	Panel Discussion

Scientific Session - 3

Hall-A, September 21, 2016

	Session Chairs: Betül Arıca Yegin, Paolo Colombo
09:00-09:30	Genomic medicine and its integration to next generation pharmaceuticals in precision oncology Cihangir Yandım , The Institute of Cancer Research, United Kingdom, Imperial College London, United Kingdom
09:30-10:00	Accreditation of professional pharmacy programs Indra K. Reddy , Irma Lerma Rangel College of Pharmacy, United States
10:00-10:30	In situ formulation for improved bioavailability of fragile cysteine-containing peptides Philippe Maincent , University of Lorraine, France
10:30-10:45	Coffee Break
	Session Chairs: Levent Öner, Philippe Maincent
10:45-11:15	Therapeutic enzymes immobilized in micro- and nano-devices Guillermo Raul Castro , Universidad Nacional de La Plata, Argentina
11:15-11:45	Multifunctional envelope-type nano device for nanomedicines Harashima Hideyoshi , Hokkaido University, Japan
11:45-12:15	Inhalers or drug device combination products Paolo Colombo , University of Parma, Italy
12:15-14:00	Lunch
	Session Chairs: Selma Şahin, Abdelwahab Omri
14:00-14:30	Nanoformulated drug delivery systems for improving antibiotic therapy Abdelwahab Omri , Laurentian University, Canada
14:30-15:00	Tissue engineering and its importance in pharmaceutical sciences Kezban Ulubayram , Hacettepe University, Turkey
15:00-15:30	Human factors engineering of geriatric drug delivery devices Tom Sam , Ex Director of Merck Sharp Dohme, The Netherlands
15:30-16:00	CLOSING CEREMONY

Novel Cell Culture Models In Pharmaceutical Research

Hall-B, September 21, 2016

	Session Chairs: İmran Vural, Güneş Esendağlı
09:00-09:30	Current concepts in mammalian cell culture Güneş Esendağlı , Hacettepe University, Turkey
09:30-10:00	Animal cell cultures for vaccine production S. İsmet Deliloğlu Gürhan , Ege University, Turkey
10:00-10:30	Cells on chips for cancer cell biology: 2D and 3D controlled <i>in vitro</i> microenvironments Devrim Pesen Okvur , Izmir Institute of Technology, Turkey
10:30-11:00	Coffee Break
	Session Chairs: İmran Vural, Güneş Esendağlı
11:00-11:30	Three-dimensional cell cultures for drug screening and cell-based therapy Francesco Pampaloni , Goethe University of Frankfurt, Germany
11:30-12:00	Biosimilar development: From cell culture to product Turgay Kaçar , Arven Pharma Inc., Turkey
12:00-14:00	Lunch

Registration

	Before August 5, 2016	After August 5, 2016
Student*	200 €	220 €
Senior Academic	500 €	550 €
Company Delegate	500 €	550 €

Registration fee includes; attendance to scientific sessions, industrial sessions, coffee breaks, lunches (according to the symposium program), social events (opening cocktail and gala dinner) and scientific documents.

Please contact official symposium agency DMR Congress Organization Services Tourism Inc. for your registration (eda.bektore@dmrturizm.com.tr)

*Master / PhD students and post-doctorates must provide a signed letter from the dean.

Accommodation

Room Type	Before August 5, 2016	After August 5, 2016
Single Room	465 €	510 €
Double Room	615 €	675 €

Accommodation package includes; 3 night accommodation between September 18 – 21, 2016, all inclusive facilities at The Marmara Hotel's structure. V.A.T. (%8) is not included.

Please contact official symposium agency DMR Congress Organization Services Tourism Inc. for your accommodation (eda.bektore@dmrturizm.com.tr)

Transportation

Distance between The Marmara Hotel and Antalya airport is 11 km. There is no regular airport shuttle to Convention Center. Taxis are available.

Distance between The Marmara Hotel and Antalya city center is 12 km. There is no regular shuttle bus to Convention Center. Taxis are available

The transportation service will be available for the participants between September 18 - 21, 2016 who contact with DMR Tourism. In order to have price information from Antalya airport to The Marmara Hotel and back and also for special transportation requests, please contact with DMR Tourism.

Cancellations

In case of cancellation of registrations and hotel reservations until July 15th, 2016, 50% of total fee will be refunded. Cancellation request will not be accepted after this date. All refunds will be done after the congress.

Payment of Registration Fees

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• Please note that, registration reservations will be confirmed by DMR Tourism (Fax no: +90 312 442 04 10) after you send the registration form.

Abstract Submission

Guideline For Abstracts

- Abstracts should only be submitted via e-mail.
- All abstracts must be submitted in English.
- The presenting author must register to the congress.
- Only the abstracts of registered presenting authors will be included in the program and abstract book.

Instructions For Abstract Submission

Abstract Deadline

Abstracts must be received online by the Symposium Agency (eda.bektore@dmrturizm.com.tr) not later than August 12, 2016. Faxed abstracts will not be accepted. No corrections and changes will be allowed after submission.

Abstract Content

The following sections **MUST** be in the abstract:

- Introduction
- Materials and Methods
- Results and Discussion
- References
- Acknowledgment
- The use of graphs, tables, equations and line drawings is strongly recommended. Invited or plenary speakers need not follow the above outline; however they **MUST** submit an abstract.

How to Submit Your Paper

Only online submission to the Symposium Agency (eda.bektore@dmrturizm.com.tr) is accepted.

Style Guide

Fonts: Arial or Times New Roman, 12 points

Margins: Left: 2.0 cm, Right: 3.0 cm, Top: 2.5 cm, Bottom: 3 cm

Text Body:

- Allowed number of figures (tables and pictures) is limited to a total of 8.
- Abstracts are limited to 7500 characters.
- Single spaced
- No indentation for the beginning of paragraphs
- Submit in Word or Word Perfect files.
- Photos and line art **MUST** BE electronically embedded within the text of the document.
- Please note that figures may be resized to fit in the final printed material.
- Please check the web site for updates of abstract submission details.
- Abstracts will be accepted either as oral or poster communications.
- Poster presentations must be prepared as 90 cm x 100 cm (widthxheight)
- Instructions for preparation of oral presentations will be announced together with results.
- Please kindly visit website for sample abstract

Best Poster Award

Best Poster Award will be given to one of the poster presentations after the scientific evaluation of the jury. This jury will be evaluating the candidate during the poster session and over the abstract which will be submitted by the authors. The results will be announced in the closing ceremony of IPTS 2016 and the winner will be awarded with “free registration” for IPTS 2018.

Best M.Sc. and Best Ph.D. Thesis Awards

Best M.Sc. and Ph.D. Thesis Awards are now opened for candidates registered to M.Sc. and Ph.D. Programmes of Division of Pharmaceutical Technology under the Institute of Health Sciences of Universities in Republic of Turkey.

- Separate evaluation will be carried out for M.Sc. and Ph.D. thesis applications.
- Best M.Sc. and Best Ph.D. Thesis Award candidates will be evaluated if there are more than 2 applications in each category.
- The thesis must be completed by the own research of the scientist, must have an originality and have a contribution to science and applicability to technology, and also must be totally conducted in Turkey.
- Thesis that were awarded within the same year will not be qualified regardless of the category.
- The written consent of the thesis supervisor must be taken and attached to the application form.
- The candidates must submit 6 hardcopies of their thesis to the IPTS-2016 Thesis Award Committee to the address below with a letter of application. The thesis hard copies are not sent back to the candidates after evaluation.
- The awardees are honored with a prize and certificate in the Award Ceremony of IPTS 2016.
- Deadline for application to the Best M.Sc. and Ph.D. Thesis Awards is 1 August 2016.
- Candidate thesis must be approved within the period of 18 July 2014 to 1 July 2016.

Contact Details

Prof. Dr. Sema Çalış

Chair of IPTS 2016

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Smyposium Venue

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The Marmara Antalya is located on the famous Falez Hills of Antalya in the Lara district. The hotel is just 5 minutes away from the city center. The Marmara Antalya is 11 kilometers (7 miles) from Antalya International Airport (AYT). To reach The Marmara Antalya from Antalya International Airport (AYT) take E5 Motorway and proceed onto Aspendos Boulevard exit and then continue onto Metin Kasapoglu Street. Turn right from the 4th set of traffic lights

Places to see in Antalya:

- Aspendos Amphitheatre
- Kaleici
- Archeology Museum
- Duden Waterfalls
- Termessos
- Silyon
- Olympos and Cirali
- Perge
- Side
- Demre (Myra)
- Phaselis
- Patara Beach
- Karain Cave



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(in alphabetical order)



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18th International Pharmaceutical Technology Symposium

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Symposium Venue

The Marmara Hotel, Antalya / Turkey



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