## Monday, February 21

HALL A

Opening Ceremony		
	Scientific	
	Chairs: Atilla Hıncal, Sema Çalış, Sevda Şenel	
08.30-09.00	Plenary Lecture <b>Mansoor A. Khan</b> Shaping pharmaceutics research and training to enhance therapeutic outcomes: Some low hanging fruits	
09.00-09.25	<b>Gerrit Borchard</b> The future of nanomedicines is complex (to predict)	
09.25-09.50	<b>Saghir Aktar</b> Interplay of nano-delivery systems with cell signaling cascades in vitro and in vivo: A concern or therapeutic opportunity	
09.50-10.15	<b>Tetsuya Ozeki</b> Gold-based nanoparticles as a unique platform of nanomedicine	
10.15- 10.30	Coffee Break	
	Chairs: Yılmaz Çapan, Erem Bilensoy	
10.30-10.55	Elias Fattal Novel approaches in the treatment of inflammatory diseases using nanotechnologies	
10.55-11.20	<b>Avi Schroeder</b> Barcoded Nanoparticles for Precision Cancer Medicine: The primary tumor and metastasis are sensitive to different medicines	
11.20-11.45	Helder Almeida Santos Dressing nanoparticles in cell's clothing: The new generation of nanomedicines for biomedical applications	
11.45-12.10	<b>Bruno Sarmento</b> Functionalized nanomedicines for the oral delivery of anti-diabetic peptides	
12.10-13.30	Lunch	
	Pharmaceutical Development and Manufacturing Solutions" "Data Science and Cyber Tools in Pharmaceutical Development and Manufacturing Sciences	
	Chairs: Sema Çalış, Levent Öner	
13.30-13.50	Nils Rottmann Innovative formulation development using the digital tool ZoomLab	
13.50-14.10	<b>Timur Kabadayı</b> Data integrity in cloud and big data applications	
14.10-14.30	Barbaros Yet Smart and accelerated formulation design using bayesian optimization	
14.30-14.50	<b>Reza Vatankhah</b> From Industry 4.0 to Pharma 4.0	
14.50-15.10	<b>Derya Cebeci</b> Raman and NIR spectroscopy applications as a PAT tool for pharmaceutical manufacturing	
15.10-15.30	Discussion	
15.30-15.50	Coffee Break	
15.50-16.10	Hans Leuenberger Impact of the Digital Revolution on the Future of Pharmaceutical Science	
16.10-16.30	Nadin Ekmekçiyan Excipient engineering and design to enable continuous manufacturing	
16.30-16.50	<b>Felix Hofmann</b> Tailored gastro intestinal targeting-advanced coating approaches to meet industrial needs	
16.50-17.10	<b>Gernot Warnke</b> From Fibres to High-Functionality Excipients. The Evolution of Cellulose in Tableting Technology	
17.10-17.30	Discussion	
17.30-18.30	Poster Session	

Chairs: Tuğba Gülsün İnal, Yağmur Akdağ Çaylı, Tuğba Çopur

Monday, February 21		
HALL B		
Oral Presentations		
	Chairs: Kıvılcım Öztürk, Nazlı Erdoğdu, Selin Seda Timur	
11.00-11.05	<b>OP1, Özge Eşim</b> Cytotoxicity Evaluation of Methotrexate-Encapsulating Chitosan-Coated Nanoparticles	
11.05-11.10	<b>OP2, Fatma Betül Arslan</b> Targeting PLGA-PEG Nanoparticles to Small Cell Lung Cancer (Sclc) Using Antibodies and Antibody Fragments	
11.10-11.15	<b>OP3, Şeyma Adatepe</b> Effect Of Ezetimibe-Loaded PLGA Nanoparticles Functionalized with Red Blood Cell Membranes as A Biomimetic Delivery System in Obese Rat Fed A High-Fat Diet	
11.15-11.20	<b>OP4, Meryem Kaplan</b> Effects of Nanoparticle Shape on Cellular Uptake and Accumulation to Tumor Cells	
11.20-11.25	<b>OP5, Zehra Dik</b> A New Look for An Old Drug: Neuroprotective Effects of Obidoxime-Loaded Nanoparticles for The Treatment of Organophosphate Poisoning In Central Nervous System	
11.25-11.30	<b>OP6, Zeliha Duygu Özdal</b> Evaluation of the In Vitro Cytotoxicity and Characterization of Ondansetron Hydrochloride Loaded Nanoparticles	
11.30-11.40	Questions & Answers	
11.40-11.45	<b>OP7, Tilbe Çevikelli</b> Col1a1 Gene Stimulation by Ketorolac Tromethamine Loaded Nano-Spray Dried Nanoparticles	
11.45-11.50	<b>OP8, Kıvılcım Öztürk</b> Development of Polymeric Micelle Formulation for Oral Megestrol Acetate Delivery	
11.50-11.55	<b>OP9, Naile Öztürk</b> In Vitro Evaluation of Doxorubicin and Telmisartan Loaded Lipid-PLGA Hybrid Nanoparticles on Breast Cancer Cells	
11.55-12.00	<b>OP10, Hümeyra Şahin Bektay</b> Bisabolol and Isoconazole Co-Loaded Liposomes for Antifungal Drug Delivery	
12.00-12.05	<b>OP11, Sema Arısoy</b> Preparation of Ace2 Loaded Decoy Liposomes by Extrusion Method for The Treatment of Covid-19	
12.05-12.10	<b>OP12, Meryem Aydın</b> Preparation and Characterization of Metoclopramide Nanostructured Lipid Carrier Loaded in Situ Gel	
12.10-12.15	<b>OP13, Gizem Rüya Topal</b> Development Of Different Lipid Nanoparticles and Evaluation of Bacteria-Nanoparticles Interactions	
12.15-12.25	Questions & Answers	
12.25-12.30	<b>OP14, Ulya Badıllı</b> In Vivo Evaluation on Fluticasone Propionate Loaded Semi-Solid Lipid Nanoparticle Dispersions	
12.30-12.35	<b>OP15, Büşra Arpaç</b> Oral Delivery of Peptides: Development of Solid Lipid Nanoparticles by Microfluidic Technique	
12.35-12.40	<b>OP16, Burcu Üner</b> Physicochemical Characterization Studies of Niosome Formulations for Ocular Applications	
12.40-12.45	<b>OP17, Safiye Akkın</b> Safety And Efficacy of Cyclodextrin Polymer-Based Nanoplexes Carrying 5-Fu and II-2 In Colon Cancer-Induced Mouse Model	
12.45-12.50	<b>OP18, Esra Pezik</b> Investigation of the Effect of Freeze Drying with Different Cryoprotectants on In-Vitro Cytotoxicity of M3 Nanocrystals	
12.50-12.55	<b>OP19, Sıla Gülbağ Pınar</b> Evaluation of Biochemical and Immunological Parameters of New Developed Cyclosporine A Nanosuspension	
12.55-13.00	<b>OP2O, Ayça Güngör Ak</b> In Vitro Characterization of Berberine Phytosome and Berberine Phytosome Loaded Chitosan Microparticles	
13.00-13.10	Questions & Answers	

Tuesday, February 22		
HALL A		
	Interchangeability of Pharmaceuticals: Current Status and Future Outlook	
	Chairs: <b>Selma Şahin, İmran Vural</b>	
09.00-09.20	Handan Öztunca, TİTCK To be announced	
09.20-09.40	<b>Zeynep Şafak Teksin</b> Bioequivalence and interchangeability issues in Modified Release Dosage Forms	
09.40-10.00	<b>Erem Bilensoy</b> Bioequivalence and interchangeability issues in inhalation products	
10.00-10.20	Discussion	
10.20- 10.35	Coffee Break	
10.35-10.55	<b>Stefan Mühlebach</b> Regulatory Challenges of synthetic nano medicines and their follow-on versions: A generic or similar approach?	
10.55-11.15	Leah Christl Interchangeability of Pharmaceuticals: Current Status and Future	
11.15-11.35	<b>Emrullah Binay</b> Biotechnology and Biopharmaceutical Drug Analysis in Pharmaceutical Formulations and Productions	
11.35-11.55	<b>Berrak Güney</b> Prospective approach to bioanalytical methods	
11.55-12.15	Discussion	
12.15-13.30	LUNCH	
	Scientific	
	Scientific Chairs: Süeda Hekimoğlu, Sibel Pehlivan	
13.30-14.00		
13.30-14.00 14.00-14.25	Chairs: <b>Süeda Hekimoğlu, Sibel Pehlivan</b> Plenary Lecture <b>Bakhos Tannous</b>	
	Chairs: Süeda Hekimoğlu, Sibel Pehlivan Plenary Lecture Bakhos Tannous Shaping the Future for Drug Discovery: a Harvard Perspective Yvonne Perrie	
14.00-14.25	Chairs: Süeda Hekimoğlu, Sibel Pehlivan Plenary Lecture Bakhos Tannous Shaping the Future for Drug Discovery: a Harvard Perspective Yvonne Perrie Delivery options for SaRNA vaccines Claus Michael Lehr	
14.00-14.25 14.25-14.50	Chairs: Süeda Hekimoğlu, Sibel Pehlivan         Plenary Lecture         Bakhos Tannous         Shaping the Future for Drug Discovery: a Harvard Perspective         Yvonne Perrie         Delivery options for SaRNA vaccines         Claus Michael Lehr         Drug Delivery across Biological Barriers for combatting and preventing Infectious Diseases         Seyed Moein Moghimi	
14.00-14.25 14.25-14.50 14.50-15.15	Chairs: Süeda Hekimoğlu, Sibel Pehlivan         Plenary Lecture         Bakhos Tannous         Shaping the Future for Drug Discovery: a Harvard Perspective         Yvonne Perrie         Delivery options for SaRNA vaccines         Claus Michael Lehr         Drug Delivery across Biological Barriers for combatting and preventing Infectious Diseases         Seyed Moein Moghimi         Self-assembled phage mimetics for crossing the blood-brain-barrier: safe and efficient siRNA delivery to neurons and microglial cells         Niklas Sandler	
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14.00-14.25 14.25-14.50 14.50-15.15 15.15-15.40 15.40–16.00	Chairs: Süeda Hekimağlu, Sibel Pehlivan         Plenary Lecture         Bakhos Tannous         Shaping the Future for Drug Discovery: a Harvard Perspective         Yvonne Perrie         Delivery options for SaRNA vaccines         Claus Michael Lehr         Drug Delivery across Biological Barriers for combatting and preventing Infectious Diseases         Seyed Moein Maghimi         Self-assembled phage mimetics for crossing the blood-brain-barrier: safe and efficient siRNA delivery to neurons and microglial cells         Niklas Sandler         Performance of nanoparticles manufactured by supercritical C02 processing         Caffee Break         Chairs: Yekta Özer, Kıvılcım Öztürk         Sibel Bozdağ Pehlivan	
14.00-14.25 14.25-14.50 14.50-15.15 15.15-15.40 15.40–16.00	Chairs: Süeda Hekimoğlu, Sibel Pehlivan         Plenary Lecture         Bakhos Tannous         Shaping the Future for Drug Discovery: a Harvard Perspective         Yvonne Perrie         Delivery options for SaRNA vaccines         Claus Michael Lehr         Drug Delivery across Biological Barriers for combatting and preventing Infectious Diseases         Seyed Moein Moghimi         Self-assembled phage mimetics for crossing the blood-brain-barrier: safe and efficient siRNA delivery to neurons and microglial cells         Niklas Sandler         Performance of nanoparticles manufactured by supercritical CO2 processing         Cotfee Break         Chairs: Yekta Özer, Kwılcım Öztürk         Sibel Bozdağ Pehlivan         Nan Invasive and Targeted Nanoparticle Strategies for the Treatment of Brain Tumors         Maria Blanco Prieto	

Tuesday, February 22		
HALL B Oral Presentations		
	Chairs: Kıvılcım Öztürk, Nazlı Erdoğdu, Selin Seda Timur	
13.30-13.35	<b>OP21, Birnur Cömez</b> Sodium Alginate-Chitosan Hydrogels for Gene Delivery	
13.35-13.40	<b>OP22, Gülşah Erel-Akbaba</b> Virus-Inspired Gene Delivery System to Target Alzheimer's Disease	
13.40-13.45	<b>OP23, Fatma Ilgaz</b> The Effect of Xanthan Gum and Modified Corn Starch Used in Dysphagia Diets on Pharmacokinetic Parameters of A Model Drug	
13.45-13.50	<b>OP24, Esra Merve Zanbak Çotaoğlu</b> Development of Piroxicam Nanosuspensions and Investigation of The Bioavailability and Efficacy of Different Applications In Rabbits	
13.50-13.55	<b>OP25, Emre Tunçel</b> Development of Hydrogel-Forming Microneedles Containing Diclofenac Sodium Using Microneedle Molds Obtained by SLA 3D Printing Technology	
13.55-14.00	<b>OP26, Ayşegül Yıldız</b> Development of Mesalazine Loaded Hydrogel Formulations by 3D Printing Technology	
14.00-14.10	Questions & Answers	
14.10-14.15	<b>OP27, Cennet Duran</b> Development of Eudragit S100 -Based 3D Tablet Formulations for Colon-Specific Delivery of Highly Soluble Drugs	
14.15-14.20	<b>OP28, Cem Varan</b> Paclitaxel-Carboplatin Loaded PCL-Based Filament Design and Characterization for FDM Printed Anticancer Intrauterine Implants	
14.20-14.25	<b>OP29, Juste Baranauskaite-Ortasoz</b> Preparation and Characterization of Nanofibers Containing Fosfomycin Produced by Electrospinning Method	
14.25-14.30	<b>OP30, İrem Çolak</b> Solubility Improvement of Loperamide with Electrospun Polyethylene Oxide Nanofibers	
14.30-14.35	<b>OP31, Emine Dilek Özyılmaz</b> Assessment of the Preparation and Characterization of Orally Disintegrating Mini Tablet Formulations Containing Atomoxetine Hydrochloride by Quality by Design (QbD) Approach In Attention Deficit And Hyperactivity Disorder Therapy	
14.35-14.40	<b>OP32, Nailla Jiwa</b> Evaluation Of Different Magnesium Stearate Types on Compaction Properties	
14.40-14.50	Questions & Answers	
14.50-14.55	<b>OP33, Yağmur Akdağ</b> Effects of Spray Drying and Lyophilization Methods on Aerodynamic Parameters in Dry Powder Inhalers	
14.55-15.00	<b>OP34, Muhammet Davut Arpa</b> Investigation of Rheological, Swelling and Bioadhesive Properties of Chitosan Based Gel Prepared with Different Acids	
15.00-15.05	<b>OP35, Eda Turan</b> Development and Characterization of the Mucoadhesive-Thermosensitive Timolol Maleate in situ Ophthalmic Gel System	
15.05-15.10	<b>OP36, Meliha Güneş</b> Rasagiline Mesylate Microspheres Loaded Buccal Gel for Parkinson Treatment	
15.10-15.15	<b>OP37, Nazlı Erdoğar</b> Development of a Topical Gel Containing Metformin Loaded Polycaprolactone Nanoparticles for Melanoma Treatment	
15.15-15.20	<b>0P38, Serol Korkmaz</b> Virucidal Activity of Xanthan Gum and Carboxymethyl Cellulose as Thickener and Emulsifier Additives in Production Technology	
15.20-15.30	Questions & Answers	
15.30-15.35	<b>OP39, İsmail Aslan</b> Encapsulated Sunscreen Formulation Efficacy Studies in-vitro	
15.35-15.40	<b>OP40, Ayşe Nur Oktay</b> Dermal Application of Cyclodextrin Based Nanogel: Experimental Design and Skin Permeation Studies	
15.40-15.45	<b>OP42, Umut Can Öz</b> Formulation Design of Capsaicin Nanoparticles for Both Anticancer and Bioimaging Applications	
15.45-15.50	<b>0P43, Emre Özgenç</b> Molecular Docking Studies between Trastuzumab and Chelating Agents to be Used in Breast Cancer as Theranostics	
15.50-15.55	<b>OP44, Meliha Ekinci</b> Cell Binding Studies of Radiolabeled Nab-Paclitaxel as Breast Cancer Imaging Agent	
15.55-16.05	Questions & Answers	
16.05-16.10	<b>OP45, Gülşen Aybar Tural</b> Developing Theragnostic Microrobots for Active Drug Targeting and Hyperthermia Applications	
16.10-16.15	<b>OP46, Fidan Gülçin Onaral</b> Development of IR 780 Encapsulated Radiolabeled Liposomes for Imaging and Photodynamic Therapy of Glioblastoma	
16.15-16.20	<b>OP47, Merve Karpuz</b> Formulation, Characterization and Radiolabeling of Liposomes Containing Imatinib with 68ga As New Theranostic Agent	
16.20-16.25	<b>OP48, Aslıhan Arslan</b> Design and in vitro/in vivo Evaluation of an Innovative Caffeine Formulation for Sleep Inertia Symptoms	
16.25-16.30	<b>OP49, Ahmet Ozan Özgen</b> In Silico Stability of Matrixyl Peptide Solution in Thermal Stress	
16.30-16.35	<b>0P50, Sakine Tuncay Tanriverdi</b> In-vitro Evaluation Ursolic Acid Film Formulations: Cell Culture Study and Antioxidant Activity	
16.35-16.40	<b>OP51, Aslıhan Arslan</b> Design and Optimization of Celecoxib Formulation using Response Surface Methodology and Bayesian Optimization	
16.40-16.50	Questions & Answers	

Wednesday, February 23		
HALL A		
Scientific		
	Chairs: <b>Betül Arıca Yegin, Tuğba Gülsün İnal</b>	
09.00-09.25	Filiz Kuralay Nanomaterials: Nanobiosensor and Nanomotor Applications	
09.25-09.50	<b>Evren Homan Gökçe</b> Lipid-Based Nanoparticles: Different routes of drug administration and recent advances	
09.50-10.15	Karsten Mäder Parenteral controlled release: Concepts reality and future directions	
10.15- 10.30	Coffee Break	
	Chairs: Hakan Eroğlu, Cem Varan	
10.30-10.55	<b>Emirhan Nemutlu</b> Metabolomics in Pharmaceutical Research	
10.55-11.20	<b>Erem Bilensoy</b> Effect of cholesterol targeted nanoparticles on tumor cells at the proteomic and metabolomic level: case studies of breast hepatocellular and lung cancers	
11.20-11.45	<b>Yang Su</b> Scalable Microfluidizer® Technology for Pharmaceutical Drug Delivering Nanoparticle Manufacturing	
11.45-12.10	<b>Pınar Kızılırmak</b> Biotechnology Age and Digital Transformation in Patient Journey	
12.10-13.30	LUNCH	
	Rare Diseases and Orphan Drugs	
	Chairs: Mehmet Alikaşifoğlu, R. Neslihan Gürsoy, Betül Arıca Yegin	
13.30-13.50	<b>Vildan Göknur Haliloğlu</b> Rare Diseases-Individualized Treatments: A Clinician's Perspective	
13.50-14.10	<b>Tuncay Alkan, SGK</b> To be announced	
14.10-14.30	<b>A. Filiz Öner</b> Nucleic acid medicines for rare diseases	
14.30-14.50	<b>Sertaç İmişci</b> Short overview on Lysosomal Storage Diseases and Enzyme Replacement Therapy	
14.50-15.10	Coffee Break	
15.10- 15.30	<b>Mantej (Nimi) Chinna</b> R&D and Regulatory Considerations for Gene Therapy Development	
15.30-15.50	<b>Ümit Dereli</b> Rare Diseases and Orphan Drugs – AIFD's Perspective	
15.50-16.10	Fabio Rocha Formiga Improving drug delivery strategies for neglected tropical diseases	
Closing Remarks		
Award Ceremony		