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International Conference on Emerging Technologies in Transdermal Drug Delivery



APRIL 17th - 19th 2023

HOTEL SAN FRANCESCO AL MONTE - Corso Vittorio Emanuele - Naples - Italy

Conference Chairs

D. Paolino Full Professor at UMG
L. De Stefano Head of Unit of ISASI CNR

Scientific Committee

L. Nicolais President of MATERIAS
T. Fossati Head of R&D Pharmaceutical of IBSA
I. Rendina Director of ISASI CNR
M. Pagliuca Technical Director of ALTERGON
A. Zampella Pharmacy Director of UNINA

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HIGHLIGHT

Advances in Topical and Transdermal Drug Delivery
Microneedle Technologies and Future Directions
Overview of the Current Global Regulatory Landscape



12:00 Reception and Registration of delegates

14:00 Luigi Nicolais - Materias
Welcome Address

14:15 Conor O'Mahony - University College Cork
Micro Transdermal Interface Platforms (MicroTIPs) for delivery and diagnostics

15:00 Ciro Chiappini - King's College
Nanoneedles for topical intracellular nucleic acid therapy

15:30 Principia Dardano - ISASI-CNR
Photolithographic approach for microneedle devices: from design to applications

15:50 Sara Coppola - ISASI-CNR
Merging bottom-up fabrication approaches of substrata for medical devices

16:10 Raffaele Vecchione - Italian Institute of Technology
Design and application of multi-compartmental microneedles for controlled intradermal release of biomolecules in an active form

16:30 Mario Battisti - Materias
Microneedles fabrication on curved surfaces

16:45 Coffee Break

17:15 Hèlder A. Santos - University of Groningen
Preparation and characterization of dissolving microneedles for drug delivery applications

17:45 Luca Casula - University of Cagliari
Diclofenac nanosuspension loaded dissolving microneedles for transdermal delivery

18:05 Chiara Attanasio - University of Naples "Federico II"
Animal research today: understanding the legal framework

18:25 Discussion

18:35 Networking cocktail

Day Two | Thursday April 18th 2023 | Start 9:30

9:30 Elka Touitou - The Hebrew University of Jerusalem
Enhancing delivery of active molecules into and across the skin by nanocarriers

10:15 Francesco Cilurzo - University of Milan
Transdermal patches: is there still room for innovation?

10:45 Coffee break

11:15 Antonia Mancuso - University of Catanzaro "Magna Graecia"
Exploiting nanocarriers for the co-delivery of natural active ingredients for the topical treatment of inflammatory diseases

11:35 Elisabetta Esposito - University of Ferrara
Ethosomes and transethosomes for transdermal administration of phytocompounds

11:55 Debora Santonocito - University of Catania
Effects of lipid content and lipid nanoparticles incorporation on the technological properties of emulsions for topical drug delivery

12:15 Rossella Di Raimo - Exolab
Plant-derived exosome the ideal for drug delivery system

12:35 Gianluca Boesso
RCA Bignami Transdermal patch machinery commitment to excellence

12:50 Networking Lunch

13:50 Elka Touitou Award

14:00 Federica De Gaetano - University of Messina
Unsaturated fatty acid vesicles loading ammonium glycyrrhizinate: a promising topical delivery system

14:20 Annalisa La Gatta - University of Campania "Luigi Vanvitelli"
Design of self-esterified hyaluronan (HA) for topical delivery of multiple HA families of defined molecular weight along with other bioactive molecules

14:40 Paola Rizzo - University of Salerno
Innovative controlled drug delivery systems based on syndiotactic polystyrene staple fibers

15:00 Lucia Baldino - University of Salerno
Transfersomes: the solution for transdermal drug delivery?

15:20 Assunta Borzacchiello - IPCB-CNR
Innovative hyaluronic acid-based nanoemulsions as carrier for transdermal drug delivery

15:40 Marco Biondi - University of Naples "Federico II"
Lipid vesicles for skin delivery of active natural compounds

16:00 Luigia Serpico - ISASI-CNR

A biocompatible thin film for a controlled, pH-responsive release of antioxidant selenium compounds

16:20 Discussion

16:30 Coffee Break

17:00 Maria Cristina Straccia - Altergon

Transdermal drug delivery system based on hyaluronic coating microneedles for immunomodulation

17:10 Daiana Iaven - University of Pavia

Complexes based on whey protein isolate and chitosan or derivatives: new biomaterials for the design and development of innovative medical devices

17:20 Chiara Grazia Milena Gennari - University of Milan

Design of sebs-based pressure-sensitive adhesives for transdermal patches preparation

17:30 Valeria Nocerino - ISASI-CNR

Simulation models: photopolymerization and mechanical indentation of micro-needles (MNs) for transdermal drug delivery

17:40 Jacopo Forte - University of Rome "Sapienza"

Lentiscus oil based nanoemulsions for skin infections: characterization and preliminary antibacterial activity evaluation

17:50 Discussion

20:00 Gala dinner

Day Three | Wednesday April 19th 2023 | Start 9:30

9:30 Paola Minghetti - University of Milan

Patches and semisolids for cutaneous administration: key regulatory aspects

10:00 Paola Volontè - University of Milan

What level of structural similarity is necessary to support post marketing variations of semisolid products

10:10 Valerio Pasca - IBSA - Swiss

Transdermal and topical products: a regulatory overview

10:30 Maria Emilia Mercurio - Materias

From research to business: Materias model

10:50 Discussion

11:00 Coffee break

11:30 Annalisa Capuano - University of Naples "Federico II"

Pharmacovigilance

11:50 Paolo Garavelli - A.BRE.MAR. S.r.l.

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12:10 Conclusion and Farewell