

16:00 Luigia Serpico - ISASI-NA CNR
A biocompatible thin film for a controlled, pH-responsive release of antioxidant selenium compounds

16:20 Discussion

16:30 Coffee Break

17:00 Flash Presentations

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-NA 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. Classification and differences between the target dosage form

10:30 Discussion

10:10 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.
Patents and trademarks: instructions for use

12:10 Conclusion and Farewell



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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

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T. Fossati Head of R&D Pharmaceutical of IBSA
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M. Pagliuca Technical Director of ALTERGON
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HIGHLIGHT

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



Day One | Monday April 17th 2023 | Start 12:00

12:00 Reception and Registration of delegates

14:00 Luigi Nicolais - Materias

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-NA CNR
Photolithographic approach for microneedle devices: from design to applications

15:50 Sara Coppola - ISASI-NA 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

16:30 Discussion

16:45 Coffee Break

17:15 Hèlder A. Santos - University of Groningen
Preparation and Characterization of Dissolving Microneedles for Drug Delivery Applications

17:15 Luca Casula - University of Cagliari
Diclofenac nanosuspension loaded dissolving microneedles for transdermal delivery

18:05 Chiara Attanasio - University of Naples "Federico II"
Diclofenac nanosuspension loaded dissolving microneedles for transdermal delivery

18:25 Discussion

18:35 Networking cocktail

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

9:30 Elka Tuitou - 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 Phytochemicals

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 Lunch

13:50 Elka Tuitou Awards

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