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The objective of this conference was to bring together scientists so they could exchange recent research results and the conference provided a mechanism for the development of close interactions between these scientists. The quality of all of the lectures was exceptionally high and considerable discussion followed each lecture. Many of the conferees expressed very favorable comments about the intellectual stimulation provided by this conference.

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20 MAR 1992

1991 GORDON RESEARCH CONFERENCES

on

Barrier Function of Mammalian Skin

Grant No. AFOSR-91-0290

Final Progress Report

This grant provided essential financial support for the Gordon Research Conference on Barrier Function of Mammalian Skin which was held August 12-16, 1991 at Plymouth State College in Plymouth, New Hampshire. The objective of this conference was to bring together scientists so they could exchange recent research results and the conference provided a mechanism for the development of close interactions between these scientists.

The conference was attended by 136 conferees. There were participants representing academic, industrial and government institutions. In addition, there were attendees from Sweden, Japan, Germany, France, England, Australia, Switzerland, The Netherlands, Canada and Israel.

The quality of all of the lectures was exceptionally high and considerable discussion followed each lecture. Many of the conferees expressed very favorable comments about the intellectual stimulation provided by this conference.

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20 MAR 1992

Barrier Function

MONDAY AM

SC Lipid Biophysics

Discussion Leader-R.Potts, Cygnus

Speakers:

D. Small

Boston U.

Title:

Physical Properties of Epidermal Lipids

K. Dill

UCSF

Bilayer Membranes: Solute Partitioning & Headgroup Properties

MONDAY PM

Membrane Permeability

Discussion Leader-S. White, UC Irvine

Speakers:

N. Kitson

U. British Col.

Title:

NMR Evaluations of Model Membranes and the Permeability Barrier

J. Bouwstra

Leiden U.

X-ray Evaluations of Human, Porcine & Mouse Stratum Corneum

TUESDAY AM

SC lipid permeability

Discussion Leader-M. Francoeur, Pfizer

Speakers:

W. Abraham

U. Iowa

Title:

Solid-state ²H-NMR Investigation of Lipid Bilayers Made from SC Lipids.

S. Friberg

Clarkson U.

A Model For The Structure of Stratum Corneum Lipids

TUESDAY PM

Percutaneous Absorption I

Discussion Leader-J. Hadgraft, U.Wales.

Speakers:

T. Franz

U. Arkansas

Title:

Use Of Finite-Dose Techniques to Study Percutaneous Absorption.

K. Sloan

U. Florida

Prodrugs for Topical Delivery

WEDNESDAY AM Percutaneous Absorption II

Discussion Leader-R. Bronaugh, FDA

Speakers: J. Reviere	N.C.State U.	Title: The Prediction of in vivo percutaneous Absorption Using Isolated Perfused Skin: Pharmacokinetic Strategies.
J. McDougal	Wright-Patterson AFB	Physiologically-based Pharmacokinetic Models as a Tool to Understand Barrier Function.

WEDNESDAY PM Percutaneous Absorption III

Discussion Leader-G. Flynn, U. Michigan

Speakers: C. Squier	U. Iowa	Title: Permeability and the lipid barrier in oral mucosa
N. Weiner	U. Michigan	Topical Application of Liposomally Encapsulated Drugs.

THURSDAY AM Iontophoresis:

Discussion Leader-R. Guy, UCSF

Speakers: G. Kasting	Procter & Gamble	Title: A Kinetic Model for Ion Transport in Skin.
B. Sage	Becton-Dickinson	In vivo Delivery of Drugs Using Iontophoresis

THURSDAY PM "Pore" Debate

Discussion Leader-H. Bodde, Leiden U.

FRIDAY AM

Epidermal Cell Culture/Permeability

Discussion Leader-M.Ponec, Leiden U.

Speakers:

V. Mak

Pfizer

Title:

Stratum Corneum Properties of Human Air-Liquid Cultures

M. Regnier

C.I.R.D.

Penetration Studies on Reconstructed Epidermis

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