Highlights

- HSD17B3 and HSD3B1 Polymorphisms with Acne Vulgaris
- Body Concept of Patients with Chronic Pruritus
- Skin Color and Vitamin D Synthesis
- Actinic Keratosis and Photodynamic Therapy
- Acquired Generalized Anhidrosis
Skin Delivery – To Scheuplein and Beyond

Editor
Michael S. Roberts

Bob Scheuplein is one of the experts who greatly influenced the thinking of many scientists working in the field of skin penetration today. It is the goal of this special issue to formally thank him for his seminal work that underpins much of the everyday tasks of all those researching in this quickly progressing field by giving an overview of his work through the eyes of his colleagues. This survey is complemented by an article by Bob Scheuplein himself pointing out his current concepts.

Not only Bob Scheuplein’s work is recognized in this publication, other innovators like Howard Maibach, Robert Langer, Gordon Flynn, Jon Hadgraft, Annette Bunge and Richard Guy are also acknowledged. This special issue gives an overview of the history and state of the art of skin science by describing the developments of researchers that have contributed to its progress as well as summarizing topical aspects.

Contents
Preface: Roberts, M.S.

• Skin – ‘That Unfakeable Young Surface’: Guy, R.H.
• Howard I. Maibach: Extraordinary Leadership in Integrating Key Concepts Underpinning Our Understanding of Percutaneous Absorption and Occupational Dermatology: Surber, C.; Elsner, P.; Singh, J.
• A Personal View of Skin Permeation (1960–2013): Scheuplein, R.J.
• Current Understanding of Skin Barrier Morphology: Norlén, L.
• Current Understanding of Skin Biology Pertinent to Skin Penetration: Skin Biochemistry: Wertz, P.W.
• Drug Delivery with Topically Applied Nanoparticles: Science Fiction or Reality? Lademann, J.; Richter, H.; Meinke, M.C.; Lange-Asschenfeldt, B.; Antoniou, C.; Mak, W.C.; Renneberg, R.; Steery, W.; Patzelt, A.

• Brian Barry: Innovative Contributions to Transdermal and Topical Drug Delivery: Williams, A.C.
• Passive and Iontophoretic Transport through the Skin Polar Pathway: Li, S.K.; Peck, K.D.
• Analysing the Skin Barrier from Down Under: Grice, J.; Benson, H.A.E.
• Engineering Approaches to Transdermal Drug Delivery: A Tribute to Contributions of Prof. Robert Langer: Mitragotri, S.
• Percutaneous Penetration Paradigms: The Contribution of Jonathan Hadgraft: Lane, M.E.
• Modelling Skin Penetration Using the Laplace Transform Technique: Anissimov, Y.G.; Watkins, A.
• Lipid Solubility and Molecular Weight: Whose Idea Was That?: Kasting, G.B.
• Richard Guy and His Collaborators: ‘Crackling’ the Skin Code: Delgado-Chorro, M.B.
• Annette Bunge: Developing the Principles in Percutaneous Absorption Using Chemical Engineering Principles: Stinchcomb, A.L.
• From the Structure of the Skin Barrier and Dermal Formulations to in vitro Transport Models for Skin Absorption: Skin Research in the Netherlands and in Germany: Windbergs, M.; Hansen, S.; Schroeter, A.; Schaefer, U.F.; Lehr, C.-M.; Bouwstra, J.
• Turning Theory into Practice: The Development of Modern Transdermal Drug Delivery Systems and Future Trends: Perumal, O.; Murthy, S.N.; Kalia, Y.N.
• The Contributions of the Celtic Masters and Their Associates: Moss, G.P.
• Solute-Vehicle-Skin Interactions in Percutaneous Absorption: The Principles and the People: Roberts, M.S.

Author Index / Subject Index

Orders may be placed with any bookseller, subscription agency, directly with the publisher or through a Karger distributor.

The easiest way to order: www.karger.com/spp
Dermatology

An International Journal founded as
'Dermatologische Zeitschrift' by Oskar Lassar (1893–1907)

Editor-in-Chief
J.-H. Saurat, Geneva

Deputy Editor
D. Lipsker, Strasbourg

Associate Editors
G. Argenziano, Reggio Emilia
M. Augustin, Hamburg
W.H. Boehncke, Genève
L. Borradori, Bern
R.P. Braun, Zürich
R. Cerio, London
L. Cerroni, Graz
O. Chosidow, Créteil
A. Dupuy, Rennes
J.W. Fluhry, Berlin
L. French, Zürich
F. Furukawa, Wakayama
M. Gilliet, Lausanne
R. Happle, Freiburg
R.J. Hay, London
P. Itin, Basel
G. Kaya, Geneva
R.G.B. Langley, Halifax, N.S.
J.M. Mascaro, Jr., Barcelona
K. Matsunaga, Nagoya
Y. Miyachi, Kyoto
L. Naldi, Bergamo
F. Nestle, London
C. Paul, Toulouse
T. Shiohara, Tokyo
M. Simonart, Brussels
H.P. Soyer, Brisbane
L. Thomas, Lyon
R.M. Trueb, Zürich
T.J. Yoon, Jinju
Ch.C. Zouboulis, Dessau

International Advisory Board
S.M. Aiba, Sendai
S. Aractingi, Paris
S. Chimenti, Rome
B. Cribier, Strasbourg
C. Gelmetti, Milano
A. von Graevenitz, Kilchberg
H. Höngsmann, Vienna
P. Joly, Rouen
S. Karpati, Budapest
A.D. Katsambas, Athens
J.-M. Lachapelle, Brussels
M.C. Mihm, Jr., Boston, Mass.
G.E. Piérard, Liège
G. Plewig, Munich
E.C. Powell, Dublin
A.-A. Ramelet, Lausanne
J. Revuz, Créteil
J. Ring, Munich
M. Röcken, Tübingen
R.A. Schwartz, Newark, N.J.
N. Stavrianos, Athens
H. Traupe, Münster
A. Vahlquist, Uppsala
D.T. Woodley, Los Angeles, Calif

Swiss Society for Dermatology and Venereology
Société Suisse de Dermatologie et Vénéréologie

European Dermato-Epidemiology Network (EDEN)
Epidemiology, Health Care Research and Evidence-Based Dermatology Section

Affiliated with
European Society of Dermatopathology (ESDP)

Printed in Switzerland on acid-free and non-aging paper (ISO 9706) by Reinhardt Druck, Basel
Appears 6-weekly: 2 volumes per year (8 issues)
Chemical Immunology and Allergy

‘... There can be few immunologists in a position to ignore the help provided by these timely reviews ... essential reading for virtually all immunologists.’

Immunology

Appearing for the first time in 1939, ‘Progress in Allergy’ was the first and, for many years, the only international review series in the English language devoted to immunology. The present title, ‘Chemical Immunology and Allergy,’ reflects the rapidly increasing role of concepts and techniques of molecular and cell biology, as well as the greater emphasis now being placed on research into the biologic problems of immunology, hypersensitivity and immunopathology. Highly specialized, single-topic volumes keep both investigators and practicing physicians up to date with the latest developments in areas of immunology and allergy where recent research has been concentrated.

NIH-Funded Research

The U.S. National Institutes of Health (NIH) mandates under the NIH Public Access Policy that final, peer-reviewed manuscripts appear in its digital database within 12 months of the official publication date. As a service to authors, Karger submits your manuscript on your behalf to PubMed Central (PMC) immediately upon publication. It usually receives a PMCID within approximately a month and will appear in PMC after 12 months. For those selecting our premium Author’s Choice service, the usual embargo will be overridden, accelerating the accessibility of your work.

Self-Archiving

Karger permits authors to archive their pre-prints (i.e. pre-refereeing) or post-prints (i.e. final draft post-refereeing) on their personal or institution’s servers, provided the following conditions are met: Articles may not be used for commercial purposes, must be linked to the publisher’s version, and must acknowledge the publisher’s copyright. Authors selecting Karger’s Author’s Choice feature, however, are also permitted to archive the final, published version of their article, which includes copyediting and design improvements as well as citation links.

Page Charges

There are no page charges for papers of 4 or fewer printed pages (including tables, illustrations and references). Each additional complete or partial page is charged to the author at CHF 325.–. The allotted size of 4 printed pages is equal to approx. 13 manuscript pages (including tables, illustrations and references).

Proofs

Unless indicated otherwise, proofs are sent to the corresponding author and should be returned with the least possible delay. Alterations other than the correction of printer’s errors are charged to the author.

E-pub First

All articles are published electronically ahead of print with a DOI number and are supplemented later with the definitive reference of the printed version. The articles become available immediately after the authors’ approval to publication, with the added advantage of being citable much earlier than in print. Authors can influence the time of appearance by promptly returning the proofs.

Reprints

Order forms and a price list are sent with the proofs. Orders submitted after the issue is printed are subject to considerably higher prices.

Chemical Immunology and Allergy

ISSN 1660–2242

Vol. 95: Anaphylaxis

Editor: Ring, J. (Munich)  
XXVI + 228 p., 32 fig., 1 in color, 37 tab., hard cover, 2010  
CHF 198.– / EUR 165.– / USD 233.00  

‘A compilation of authoritative yet readily understandable reviews will be of significant value to students of immunology, researchers and indeed anyone wanting insight into the change in thinking about T cell regulation over the last decade.’ (WAV Website)

Chemical Immunology and Allergy

ISSN 1660–2242

Vol. 94: T Cell Regulation in Allergy, Asthma and Atopic Skin Diseases

Editor: Blaser, K. (Davos)  
XXVII + 226 p., 39 fig., 8 in color, 11 tab., hard cover, 2008  
CHF 198.– / EUR 165.– / USD 233.00  

‘This volume provides fascinating reviews of the recent work on bacterial and viral superantigens that bind intact to MHC class II molecules and trigger T cells by interacting with the T cell receptor V domain.’ (Microbiology Today)

Vol. 93: Superantigens and Superallergens

Editor: Marone, G. (Naples)  
XXV + 214 p., 42 fig., 1 in color, 5 tab., hard cover, 2007  
CHF 179.– / EUR 147.– / USD 207.00  

‘This book has no competitor in the field of ocular books ...’ (Graefes Archives of Clinical and Experimental Ophthalmology)
Contents

See the journal website for contents
provides recent clinicopathological information for dermatopathologists

Dermatopathology

Editor-in-Chief
Dr. G. Kaya, Geneva

Associate Editors
Z.B. Argenyi, Seattle, Wash.
R. Barnhill, Los Angeles, CA
G. Borroni, Pavia
E. Calonje, London
A. Carlson, Albany, N.Y.
L. Cerroni, Graz
G. Erkin, Ankara
M.T. Fernández-Figueras, Barcelona

Call for Papers
Submit your article to this peer-reviewed, online-only, open access journal to share your findings with the international scientific community. Papers are published online very quickly and will be searchable in PubMed!

Benefit of the advantages of publishing in Dermatopathology:
• Your article will potentially receive more citations
• No limitations on article length
• Lower rejection rates compared to print publications due to unlimited issue capacity

More information about the journal can be found on the journal homepage www.karger.com/dpa. To submit your article, please refer to the online submission instructions on the journal homepage.

Dermatopathology is a peer-reviewed online-only journal publishing original scientific articles dealing with diagnostic and experimental dermatopathology. Contributions on clinicopathological correlations, studies based on current molecular technologies as well as controversial issues and case reports are welcome. The aim of the journal is to share interesting and most recent clinicopathological information with the community of dermatopathologists all over the world and to create a stronger link between dermatopathology, clinical dermatology and investigative dermatology. Dermatopathology also provides a resource for continuing medical education in cutaneous pathology. After acceptance, articles are published online very quickly, ensuring the rapid availability of scientific knowledge for all clinicians and researchers interested in this specialty. According to the open-access principle, the contents of the journal can be retrieved at all times without any charge.

More information at www.karger.com/dpa

Editorial Board Members
R. Cerio, London
B. Cribier, Strasbourg
J. Kanitakis, Lyon
H. Kerl, Graz
D. Metze, Munster
M. Mihm, Boston, Mass.
B. Smoller, Augusta, Ga.
C. Tomasini, Turin
**Cases and Reviews**

209 Linear IgA Bullous Disease Presenting as Toxic Epidermal Necrolysis: A Case Report and Review of the Literature
Kakar, R.; Paugh, H.; Jaworsky, C. (Cleveland, Ohio)

270 Acquired Generalized Anhidrosis: Review of the Literature and Report of a Case with Lymphocytic Hidradenitis and Sialadenitis Successfully Treated with Cyclosporine
Fujita, K.; Hatta, K. (Tenri)

**Case Reports**

193 Anti-TNF Therapy in the Treatment of Psoriasis in a Patient with Acute-on-Chronic Pancreatitis
Clayton, H.; Flatz, L. (Lausanne); Vollenweider-Roten, S. (Vevey); Schoepfer, A.; Gilliet, M.; Conrad, C. (Lausanne)

226 Cutaneous Reactive Angiomatosis with Combined Histological Pattern Mimicking a Cellulitis
Corti, M.A.M. (Bern); Rongioletti, F. (Genoa); Borradori, L.; Beltraminelli, H. (Bern)

238 Annular Elastolytic Giant Cell Granuloma Associated to Late-Onset X-Linked Dominant Protoporphyria

**Original Papers**

197 Invisible Bleeding from Clean-Shave Haircuts: Detection with Blood Specific RNA Markers

202 Association of HSD17B3 and HSD3B1 Polymorphisms with Acne Vulgaris in Southwestern Han Chinese
Yang, X.-Y.; Wu, W.-J. (Kunming); Yang, C.; Yang, T.; He, J.-D.; Yang, Z.; He, L. (Kunming)

214 Correlation between Protoporphyrin IX Fluorescence Intensity, Photobleaching, Pain and Clinical Outcome of Actinic Keratosis Treated by Photodynamic Therapy
Piffaretti, F.; Zellweger, M. (Lausanne); Kasraee, B. (Geneva); Barge, J. (Froideville); Salomon, D. (Geneva); van den Bergh, H.; Wagnières, G. (Lausanne)

231 The Potential Depigmenting Activity of Retinaldehyde

243 Efficacy of Fractional Microneedle Radiofrequency Device in the Treatment of Primary Axillary Hyperhidrosis: A Pilot Study
Kim, M.; Shin, J.Y.; Lee, J.; Kim, J.Y.; Oh, S.H. (Seoul)

255 In vivo Diagnosis of Basal Cell Carcinoma Subtype by Reflectance Confocal Microscopy
Peppelman, M.; Wolberink, E.A.W.; Blokx, W.A.M.; van de Kerkhof, P.C.M.; van Erp, P.E.J.; Gerritsen, M.-J.P. (Nijmegen)

263 Body Concept of Patients with Chronic Pruritus in Relation to Scratch Lesions and Psychic Symptoms
Stumpf, A.; Ständer, S.; Phan, N.Q.; Tanneberger, A.; Heuft, G.; Schneider, G. (Münster)

278 Health-Related Quality of Life, Depression and Anxiety Correlate with the Degree of Hirsutism
Ekbäck, M.P.; Lindberg, M. (Örebro); Benzein, E. (Kalmar); Årestedt, K. (Kalmar/Linköping/Stockholm)

**Rapid Communication/Hot Topic**

250 Skin Color Is Relevant to Vitamin D Synthesis
Libon, F.; Cavalier, E.; Nikkels, A.F. (Liège)

285 Newsletter ILDS, No. 30, 2013

Cover Illustration
For details see Vol. 226, No. 1, 2013, p. 56, Fig. 5.