

*Department of Dermatology
and Cutaneous Biology*

ANNUAL REPORT

2001 – 2002

Jouni J. Uitto, MD, PhD
Professor and Chairman
Department of Dermatology and
Cutaneous Biology

DEPARTMENT OF DERMATOLOGY AND CUTANEOUS BIOLOGY

CHAIRMAN

Jouni J. Uitto, MD, PhD, Professor of Dermatology and Cutaneous Biology; Professor of Biochemistry and Molecular Pharmacology (secondary appointment)

VICE CHAIRS

Young C. Kauh, MD, Professor and Senior Vice Chairman of Departmental Development, Department of Dermatology and Cutaneous Biology

Guy F. Webster, MD, PhD, Professor and Clinical Vice Chair, Department of Dermatology and Cutaneous Biology; Professor of Medicine, Division of Clinical Pharmacology (secondary appointment); Director, Center for Cutaneous Pharmacology, Department of Dermatology and Cutaneous Biology

Mon-Li Chu, PhD, Professor and Vice Chair of Research, Department of Dermatology and Cutaneous Biology; Professor of Biochemistry and Molecular Pharmacology (secondary).

DIVISION DIRECTORS

Tatyana R. Humphreys, MD, Clinical Associate Professor of Dermatology and Cutaneous Biology, Director, Center for Laser Surgery and Cosmetic Dermatology

Patrice M. Hyde, MD, Clinical Assistant Professor of Dermatology and Cutaneous Biology, Chief of Pediatric Dermatology

Jason B. Lee, MD, Clinical Assistant Professor of Dermatology and Cutaneous Biology, Director, Dermatopathology Division

HONORARY MEMBERS:

Joseph K. Corson, MD, Honorary Clinical Associate Professor of Dermatology and Cutaneous Biology

Charles H. Greenbaum, MD, Honorary Clinical Professor of Dermatology and Cutaneous Biology

Richard H. Musgnug, MD, Honorary Assistant Professor of Dermatology and Cutaneous Biology

Joseph F. Ricciuti, MD, Honorary Instructor of Dermatology and Cutaneous Biology

John F. Wilson, MD, Honorary Associate Professor of Dermatology and Cutaneous Biology

PROFESSORS

Mohamed A. Amer, MD, Visiting Professor of Dermatology and Cutaneous Biology¹
Mon-Li Chu, PhD*, Professor of Dermatology and Cutaneous Biology
Francis P. Gasparro, PhD, Adjunct Research Professor of Dermatology and Cutaneous Biology
Isao Hashimoto, MD, PhD, Visiting Professor of Dermatology and Cutaneous Biology²
Lasse O. Kanerva, MD, PhD, Visiting Research Professor of Dermatology and Cutaneous Biology³
Francisco Kerdel-Vegas, MD, Visiting Professor of Dermatology and Cutaneous Biology
Kari I. Kivirikko, MD, PhD, Visiting Professor of Dermatology and Cutaneous Biology⁴
Torello Lotti, MD, Visiting Professor of Dermatology and Cutaneous Biology⁵
Henry C. Maguire, MD*, Research Professor of Dermatology and Cutaneous Biology⁶
George F. Murphy, MD*, Professor of Dermatology and Cutaneous Biology⁷
Thomas O'Brien, PhD, Professor of Dermatology and Cutaneous Biology
Joseph L. Pace, MD, Visiting Professor of Dermatology and Cutaneous Biology⁸
Lawrence C. Parish, MD, Clinical Professor of Dermatology and Cutaneous Biology
Yoon-Kee Park, MD, PhD, Visiting Professor of Dermatology and Cutaneous Biology⁹
Terence J. Ryan, FRCP, Visiting Professor of Dermatology and Cutaneous Biology¹⁰
Markku Ryyänen, MD, PhD, Visiting Professor of Dermatology and Cutaneous Biology¹¹
Rupert Timpl, PhD, Visiting Professor of Dermatology and Cutaneous Biology¹²
Jouni Uitto, MD, PhD, Professor of Dermatology and Cutaneous Biology, Professor of Biochemistry and Molecular Pharmacology
Guy F. Webster, MD, PhD, Professor of Dermatology and Cutaneous Biology, Professor of Medicine, Division of Clinical Pharmacology

ASSOCIATE PROFESSORS

Sirpa Aho, PhD*, Research Associate Professor of Dermatology and Cutaneous Biology
Guy F. Carnabucci, MD, Adjunct Clinical Associate Professor of Dermatology and Cutaneous Biology
David J. Herrick, PhD, Research Associate Professor of Dermatology and Cutaneous Biology
Tatyana R. Humphreys, MD*, Clinical Associate Professor of Dermatology and Cutaneous Biology, Chief, Division of Cutaneous Surgery, Director, Center for Laser Surgery and Cosmetic Dermatology
Jaakko Karvonen, MD, PhD, Visiting Professor of Professor of Dermatology and Cutaneous Biology¹³
Bernard A. Kirshbaum, MD, Adjunct Clinical Associate Professor of Dermatology and Cutaneous Biology
Robert G. Knowlton, PhD, Adjunct Associate Professor of Dermatology and Cutaneous Biology
Alain Mauviel, PhD, Adjunct Associate Professor of Dermatology and Cutaneous Biology¹⁴
Leena Pulkkinen, PhD, Adjunct Research Associate Professor of Dermatology and Cutaneous Biology

Gabriele Richard, MD, Associate Professor of Dermatology and Cutaneous Biology

Ulrich Rodeck, MD*, Associate Professor of Dermatology and Cutaneous Biology

Janet Sawicki, PhD, Research Associate Professor of Dermatology and
Cutaneous Biology

Kyonggeun Yoon, PhD*, Associate Professor of Dermatology and Cutaneous Biology,
Director, Cutaneous Gene Therapy Center

John A. Zitelli, MD, Adjunct Clinical Associate Professor of Dermatology and
Cutaneous Biology

ASSISTANT PROFESSORS:

Vitali Alexeev, PhD*, Assistant Professor of Dermatology and Cutaneous Biology

Ercem Atillasoy, MD, Adjunct Clinical Assistant Professor of Dermatology and
Cutaneous Biology

Harold L. Colburn, Jr., MD, Clinical Assistant Professor of Dermatology and
Cutaneous Biology

Chalmers E. Cornelius, III, MD, Assistant Professor of Dermatology and
Cutaneous Biology

Magaly del Monaco, DO*, Clinical Assistant Professor of Dermatology and
Cutaneous Biology

Reza F. Ghohestani, MD, PhD, Research Assistant Professor of Dermatology and
Cutaneous Biology

Andrzej Fertala, PhD, Assistant Professor of Dermatology and Cutaneous Biology

Seung K. Hann, MD, PhD, Visiting Clinical Assistant Professor of Dermatology and
Cutaneous Biology¹⁵

Patrice Hyde, MD*, Clinical Assistant Professor of Dermatology and Cutaneous
Biology, Chief, Pediatric Dermatology

John F. Klement, PhD*, Assistant Professor of Dermatology and Cutaneous Biology

Raymond Krain, MD, Clinical Assistant Professor of Dermatology and
Cutaneous Biology

Kehua Li, MD, Assistant Professor of Dermatology and Cutaneous Biology

My Mahoney, PhD*, Assistant Professor of Dermatology and Cutaneous Biology

Joseph P. McFarland, MD, Assistant Professor of Dermatology and Cutaneous Biology

Ellen Pfindner, PhD*, Assistant Professor of Dermatology and Cutaneous Biology

Gabriele Richard, MD*, Assistant Professor of Dermatology and Cutaneous Biology

Franziska Ringpfeil, MD*, Assistant Professor of Dermatology and Cutaneous Biology

Takashi Tsuda, MD*, Assistant Professor of Dermatology and Cutaneous Biology

Stephan S. Sollberg, MD, Adjunct Research Assistant Professor of Dermatology and
Cutaneous Biology¹⁶

Norman L. Sykes, Jr., MD*, Clinical Assistant Professor of Dermatology and
Cutaneous Biology

Katsuto Tamai, MD, PhD, Visiting Assistant Professor of Dermatology and
Cutaneous Biology¹⁷

INSTRUCTORS:

Anne Marie C. Angeles, MD, Instructor of Dermatology and Cutaneous Biology
Gary L. Becker, MD, Instructor of Dermatology and Cutaneous Biology
Paul Bujanauskas, MD*, Instructor of Dermatology and Cutaneous Biology
Salvatore P. Calabro, MD, Instructor of Dermatology and Cutaneous Biology
David A. High, MD, Instructor of Dermatology and Cutaneous Biology
Olga Igoucheva, PhD*, Instructor of Dermatology and Cutaneous Biology
Te-Cheng Pan, PhD*, Instructor of Dermatology and Cutaneous Biology
Fatima Rouan, PhD*, Instructor of Dermatology and Cutaneous Biology
Robin S. Scheiner, MD, Instructor of Dermatology and Cutaneous Biology
Toby Shaw, MD, Instructor of Dermatology and Cutaneous Biology
Kenneth Wasserman, MD, Instructor of Dermatology and Cutaneous Biology
Michele J. Ziskind, MD, Instructor of Dermatology and Cutaneous Biology

ENDNOTES:

* Denotes full-time faculty appointment at Jefferson Medical College

- 1 President, Zagazig University, Cairo, Egypt
- 2 Director, Aomori Rosai Hospital, Hachenoke, Japan
- 3 Professor, Section of Dermatology, Institute of Occupational Health, University of Helsinki, Finland
- 4 Professor, Department of Medical Biochemistry, University Hospital, Oulu, Finland
- 5 Professor, Department of Dermatology, University of Florence, Italy
- 6 Primary appointment to the Department of Medicine, Jefferson Medical College
- 7 Primary appointment to the Department of Pathology, Anatomy, and Cell Biology, Jefferson Medical College
- 8 Senior Lecturer and Head, Department of Dermatology, St. Jude's Medical Centre, Malta
- 9 Professor, Department of Dermatology, Yonsei University School of Medicine, Seoul, Korea
- 10 Professor Emeritus, Dermatology at University of Oxford, United Kingdom
- 11 Professor and Chairman, Department of Obstetrics & Gynecology, University of Oulu, Finland
- 12 Director, Connective Tissue Research Laboratories, Max Planck Institute for Biochemistry, Martinsried, Germany
- 13 Professor of Dermatology, University of Oulu, Finland
- 14 Research Director, Department of Dermatology, Hopital Saint-Louis, Paris, France
- 15 Assistant Professor of Dermatology, Yonsei University Medical Center, Seoul, Korea
- 16 Chief, Department of Dermatology, Schweringen, Germany
- 17 Associate Professor of Dermatology, Hirosaki University, Japan

SIRPA AHO, PH.D.

Research Associate Professor

Department of Dermatology and Cutaneous Biology

Publications:

Montonen, O., Aho, M., Uitto, J. and Aho, S. 2001. Tissue distribution and cell type-specific expression of p120ctn isoforms. *J. Histochem. Cytochem.* 49:1487-1495.

Mahoney, M.G., Simpson, A., Aho, S., Uitto, J. and Pulkkinen, L. 2002. Interspecies conservation and differential expression of mouse desmoglein family. *Exp. Dermatol.* 11:115-125.

Aho, S., Levansuo, L., Montonen, O., Kari, C., Rodeck, U. and Uitto, J. 2002. Specific sequences in p120ctn determine subcellular distribution of its multiple isoforms involved in cellular adhesion of normal and malignant epithelial cells. *J. Cell Sci.* 115:1391-1402.

Kazerounian, S., Uitto, J. and Aho, S. 2002. Unique role for the periplakin tail in intermediate filament association: Specific binding to keratin 8 and vimentin. *Exp. Dermatol.* in press.

Grant support:

“Hemidesmosomal Protein Linkage Map by Two-hybrid System”. NIH/NIAMS: 1RO1-AR44833, \$121,691/y.

Principal investigator: Sirpa Aho, Ph.D.

Participation in scientific meetings:

Gordon Research Conference, Epithelial Differentiation and Keratinization. Tilton School, Tilton, NH, July 8-13, 2001:

Poster presentation:

Aho, S. A network of protein-protein interactions in epidermis disclosed by yeast two-hybrid system.

41st American Society for Cell Biology Annual Meeting, December 8-12, 2001, Washington, DC

VITALI ALEXEEV, PH.D.
Assistant Professor
Department of Dermatology and Cutaneous Biology

Publications:

Igoucheva, O., **Alexeev**, V. and Yoon, K. Targeted gene correction by small single -stranded oligonucleotides in mammalian cells. *Gene Therapy*, 2001, 8 :391-399.

Alexeev, V., Igoucheva, O. and Yoon, K. Simultaneous targeted alteration of the tyrosinase and c-kit genes by single -stranded oligonucleotides. In press, *Gene Therapy*, 2002.

Igoucheva, O., **Alexeev**, V. and Yoon, K. Nuclear extracts promote gene correction and strand pairing of oligonucleotides to the homologous plasmid. *Antisense and Nucl. Acid Drug Develop.* 2002, 12: 235-246.

Grant Support:

American Skin Association Categorical Disease Grant for Vitiligo Research.
PI – Vitali Alexeev. "Development of the new modalities for vitiligo treatment via melanocytes transplantation". Direct costs - \$ 15.000

Dermatology Foundation Research Career Development Award.
PI – Vitali Alexeev. "Gene targeted alteration of tyrosinase and c-kit genes by RNA-DNA oligonucleotide in vitro, ex vivo and in vivo ". Direct costs - \$ 55.000

Participation in Scientific/Clinical Meetings and Presentations:

Alexeev, V., Igoucheva, O. and Yoon, K. Simultaneous targeted alteration of the tyrosinase and c-kit genes by single -stranded oligonucleotides. (Presented at Society of Investigative Dermatology Annual Meeting, Los Angeles, CA, 2002)

Alexeev, V. Oligonucleotide-based strategies for targeted alteration of pigmentation genes. (Presented at Dermatology Foundation Symposium, Unilever Research US, Edgewater, NJ, November 2, 2002)

Alexeev, V. Targeted alteration of pigmentation genes the tyrosinase and c-kit genes by single -stranded oligonucleotides. (Presented at Society of Investigative Dermatology Annual Meeting, Los Angeles, CA, 2002)

Honors/Special Recognitions:

Dermatology Foundation Research Career Development Award.

ERCEM S. ATILLASOY, MD, FAAD
Adjunct Clinical Assistant Professor
Senior Director, Merck Research Laboratories
West Point, PA 19468

Publications:

Atilasoy ES (Editor). Use of Terbinafine in the in HIV Positive and Diabetes Patients with Dermatophytosis. *Cutis* (Supplement) July 2001. Vol. 68 1-40S.

Smith S, Houpt K, Rich P, LaMarca A, Weinberg JM, Alferez TS, Atilasoy E, Opper C. Short-Duration Oral Terbinafine for the Treatment of Tinea Pedis in HIV-Positive Patients. *Cutis*. 2001 Jul;68(1 Suppl):30-9

Atilasoy ES, Santoro A, Weinberg JM. Lymphoedema Associated with Kaposi's Sarcoma. *J. Eur. Acad. Dermatol. Venereol.* 2001 Jul; 15(4):364-5.

Atilasoy ES, (Author of Chapters) "Skin Cancers and Non-Cancerous Skin Growths," Merck Manual, Home Edition, (in press) 2003 edition

Elewski B, Leyden J, Atilasoy ES. The Infection Confirmation Survey (Onychomycosis). *Archives of Internal Medicine* (in press) 2002.

Jansen DA, Asgari MM, Atilasoy ES, and Milstone LM. Clinical and In Vitro Responses of Bilayered Skin Construct (Graftskin) to Meshing. *Arch. Dermatol.* 2002 Jun 138(6):843-4

Participation in Scientific/Clinical Meetings and Presentations:

Presenter, Infectious Disease Seminar, American Academy Derm 2001

Guest Reviewer of all dermatology chapters: Merck Manuals Home Edition (in press) 2003 edition

Honors/Special Recognition:

2002 Promotion to Senior Director, Merck Research Laboratories, West Point, PA

Membership in Professional Organizations:

Pennsylvania Academy of Dermatology
American Academy of Dermatology
American Medical Association

MON-LI CHU, PH.D.

Professor and Vice-Chair of Research

Department of Dermatology and Cutaneous Biology

Publications:

Tsuda, T., Wang, H., Timpl, R., and Chu, M.-L. (2001) Fibulin-2 expression marks transformed mesenchymal cells in developing cardiac valves, aortic arch vessels, and coronary vessels. *Dev Dyn.* 222, 89-100.

Kostka, G., Giltay, R., Bloch, W., Addicks, K., Timpl, R., Fässler, R. and Chu, M.-L. (2001) Perinatal lethality and endothelial cell abnormalities in several vessel compartments of fibulin-1-deficient mice. *Mol. Cell Biol.* 21, 7025-7034.

Castoldi, M. and Chu, M.-L. (2002) Structural and Functional Characterization of the Human and Mouse Fibulin-1 Gene Promoters: Role of Sp1 and Sp3. *Biochem J.* 362, 41-50.

Camacho Vanegas, O., Zhang, R.-Z, Sabatelli, P., Lattanzi, G., Bencivenga, P., Giusti, B., Columbaro, M., Chu, M.-L., Merlini, L. and Pepe, G (2002): Novel COL6A1 splicing mutation in a family affected by mild Bethlem myopathy. *Muscle Nerve* 25, 513-519.

Dziadek, M., Kazenwadel, J. S., Hendrey, J. A., Pan, T.-C., Zhang, R.-Z. and Chu, M.-L. (2002) Alternative splicing of transcripts for the alpha3 chain of mouse collagen VI identification of an abundant isoform lacking domains N7-N10 in mouse and human. *Matrix Biol.* 21, 227-241.

Chu, M.-L. and Prockop, D.J. (2002). Collagen: Gene Structure. in "Connective Tissue and Its Heritable Disorders: Molecular, Genetic and Medical Aspects" Second edition. Royce, P. M. and Steinmann, B., eds. Wiley-Liss, Inc., New York, pp. 223-248.

Uitto, J., Pulkkinen, L., and Chu, M.-L. Collagen in "Dermatology in General Medicine", Sixth edition. Freedberg, I.M., Eisen, A.Z., Wolff, K., Austen, K.F., Goldsmith, L.A., Katz, S. I., Fitzpatrick, T.B., eds. McGraw-Hill, New York, in press.

Uitto, J. and Chu, M.-L. Elastic Fibers in "Dermatology in General Medicine", Sixth edition. Freedberg, I.M., Eisen, A.Z., Wolff, K., Austen, K.F., Goldsmith, L.A., Katz, S. I., Fitzpatrick, T.B., eds. McGraw-Hill, New York, in press.

Grant Support:

RO1 AR38912-15 (P.I.: Chu, M.-L.) 7/15/87-6/30/05 NIH/NIAMS
\$200,000

Structure of Type VI Collagen and Its Role in Disease

RO1 GM55625-05 (P. I.: Chu, M.-L.) \$189,000 Function of Fibulins	5/1/97-6/30/05	NIH/NIGMS
R01 GM48532-08 (P. I.: Chu, M.-L.) \$157,707 Biochemistry of Type XVI Collagen	4/1/93-3/31/02	NIH/NIGMS
PO1-AR38923-15 (P. I.: Uitto, J.) Molecular Genetics of Skin Basement Membrane Zone in EB Leader of the Molecular Biology Core	12/20/87-3/31/07	NIH/NIAMS

Participation in Scientific/Clinical Meetings and Presentations.

Invited speaker, "*Type VI collagen defects in congenital myopathies*"
Gordon Research Conference on Collagen, July 29-August 3, 2001. Colby-Sawyer
College, New London, New Hampshire

Invited speaker, "*Fibulins: Molecular and functional analyses*"
Gordon Research Conference on Elastin and Elastic Fibers, July 29-August 3, 2001.
Kimball Union Academy, Meriden, New Hampshire

Co-Chair: "*Contributions of elastic fibers to morphogenesis and development*"
Gordon Research Conference on Elastin and Elastic Fibers, July 29-August 3, 2001.
Kimball Union Academy, Meriden, New Hampshire

Seminar speaker, "*Type VI collagen in congenital muscular dystrophy*"
Division of Experimental Radiation Oncology of the Department of Radiation Oncology,
Thomas Jefferson University, April 29, 2002.

Departmental Committees:

Coordinator of "Science Lecture Series" and "Research in Progress"
Chair of Faculty Search Committee

Professional Organizations:

American Society for Biochemistry and Molecular Biology
American Association for the Advancement of Science
International Society for Matrix Biology
American Society for Matrix Biology
Alexander von Humboldt Association of America

ANDRZEJ FERTALA, PH.D.
Assistant Professor
Department of Dermatology and Cutaneous Biology

Publications:

A. Fertala, W.B Han, and F.K. Ko. Mapping critical sites in collagen II for rational design of gene engineered proteins for cell supporting materials. *J. Biomed. Materials Res.* 57: 48-58 (2001)

A. Fertala, A.L. Sieron, E. Adachi, S.A. Jimenez. Collagen II containing a Cys substitution for Arg-alpha1-519: abnormal interactions of the mutated molecules with collagen IX. *Biochemistry.* 2001 Dec 4;40(48):14422-8.

W.A. Cabral, A Fertala, L.K. Green, J. Korkko, A. Forlino, J.C. Marini. Procollagen with skipping of $\alpha 1(I)$ exon 41 has lower binding affinity for $\alpha 1(I)$ C-telopeptide, impaired in vitro fibrillogenesis and altered fibril morphology. *J Biol Chem.* 277: 4215-4222 (2002)

A. Sieron, N. Louneva, A. Fertala. Site-specific interaction of BMP-2 with procollagen II. *Cytokine* (2002) 18: 214-221.

Yu-Long Sun, Zong-Ping Luo, A. Fertala, Kai-Nan An. Collagens: Are They the Rigid Molecules? *Biophys. Biochem. Res. Comm.* (2002, in press).

M. Arita, S-W Li, G. Kopen, E. Adachi, S. A. Jimenez, A. Fertala. Skeletal Abnormalities and Ultrastructural Changes of Articular Cartilage in Transgenic Mice Expressing a Type II Collagen Gene (COL2A1) with a Cys for Arg- α 1-519 Substitution. *Osteoarthritis & Cartilage* (2002, in press).

Grant Support:

Title of Project (*and/or Subproject*): "Genetically Engineered Collagen II for Smart Biomaterials"
Project Number (Principal Investigator): NAG9-1342 (Andrzej Fertala, Ph.D.)
Source: NASA
Dates of Approved/Proposed Project: 8/1/01-9/30-9/30/04

Title of Project (*and/or Subproject*): Site Specific Interactions that Direct Collagen Self Assembly
Project Number (Principal Investigator): RO1 AR48544-(Fertala, Andrzej, Ph.D.)
Source: NIH
Dates of Approved/Proposed Project: 04/02-03/07

Title of Project (*and/or Subproject*): "Functional Consequences of the Mutations at the Protein Level"
Project Number (Principal Investigator): 5P01AR038923-16 (Director of the Program Project, Jouni Uitto, M.D., Ph.D.)
Source: NIH
Role on the Project: Principal Investigator.
Dates of Approved/Proposed Project: 4/1/02-03/31/07

Title of Project (*and/or Subproject*): Molecular Biology of Osteoarthritis (Program Project Grant, Director of the Program Project, Jimenez, Sergio A., M.D., Ph.D.)
Source: NIH
Role on the Project: Co-Investigator.

Dates of Approved/Proposed Project: 04/01/02 - 03/31/06

Participation in Scientific/Clinical Meetings and Presentations:

Collagen II containing a Cys substitution for Arg- α 1-519: abnormal interactions of the mutated molecules with collagen IX. 2001, OARSI World Congress, Washington, DC

Rational design of recombinant collagens. 2002, NASA Cell Science Conference, San Francisco, CA

Recombinant collagens for tissue repair. 2002, Department of Orthopaedic, Thomas Jefferson University, PA

Professional Organizations:

American Society for Matrix Biology

Participation in Scientific/Clinical Meetings and Presentations:

M BARRIA, J UITTO, RF GHOHESTANI. Development of an active mouse model of pemphigus vulgaris by DNA immunization. Experimental Biology, New Orleans, April 2002. Late breaking abstract.

M BARRIA, J UITTO, RF GHOHESTANI. Induction of an active mouse model of pemphigus vulgaris by DNA immunization. Society for Investigative Dermatology, Los Angeles, May 2002.

Honors/Special Recognitions:

2001 Robert Degos Research Award, French Society of Dermatology, Paris
2002 Junior Faculty Award, American Association of Immunologists, New Orleans

Editorial Activities:

Paper reviewing for: American Journal of kidney Diseases, Archives for Dermatological Research, British Journal of Dermatology, Clinical and Experimental Dermatology, Cytokine, European Journal of Dermatology, Journal of European Academy of Dermatology and Venereology, Journal of Investigative Dermatology, International Journal of Cancer, Journal of Clinical Investigation, Laboratory Investigation.

Guest Editor, Clinics in Dermatology, Issue on Autoimmune Blistering Skin Diseases
Co-Editor, European Journal of Dermatology
Ad Hoc review committee, University of Southern California Research award Committee

Professional Organizations:

American Association for the Advancement of Science, Washington (since 1990), Société de Recherche Dermatologique, Lyon (since 1994), European Society for Dermatological Research, Munster (since 1995), Groupe d'Immuno-Dermatologie, Société Française de Dermatologie, Paris (since 1995), Society for Cutaneous Ultrastructural Research, Rome (since 1995), New York Academy of Sciences, New York (since 1996), Société Française d'Immunologie, Paris (since 1997), American Association of Immunologists, (since 1999), Federation of American Societies for Experimental Biology (since 1999).

SEUNG-KYUNG HANN, M.D.
*Clinical Professor, Department of Dermatology,
College of Medicine, Yonsei University, Seoul, Korea*

Publications:

Side Effect of Suntan, Seung-Kyung Hann, Journal of Korean Medical Association, In Press, 2002

Scientific Presentations:

The Classification of Segmental Vitiligo on the Face

- ? Seung-Kyung Hann, 12th Japan Korea Dermatology Meeting, Tokyo, Nov. 19th, 2001

Diagnosis & Treatment of Photosensitive Disease

- ? Seung-Kyung Hann, 12th Korean Photomedicine Symposium, Seoul, Feb. 16th, 2002

Membership in Professional Organizations:

Board Member of Korean Dermatological Association

Honors/Special Recognitions:

Consulting Dermatologist of the 121st Hospital of U.S. 8th Army in Seoul

TATYANA R. HUMPHREYS, M.D.
Clinical Associate Professor
Department of Dermatology and Cutaneous Biology

Publications:

Covello S, Humphreys TR, Lee J. Metastatic Osteosarcoma. JAAD, in press.

Humphreys Tatyana. Cosmetic Surgery Update: Approaches to Acne Scarring. *Cosmetic Dermatology* 20001; 14(11):36-38.

Humphreys TR. Amelanotic Melanoma. *Cosmetic Dermatology*20002; 15(5):19-22.

Humphreys T. Skin Cancer: Recognition and Management. *Clinical Cornerstone* 2001; 4(1):23-32.

Scientific Meetings and Presentations:

“Hereditary Skin Cancer”. Hereditary Cancer Risk Assessment. Jefferson Cancer Network/Kimmel Cancer Center. Thomas Jefferson University, 11/15/01.

“Unusual Presentations of Malignant Melanoma”. Focus Session, American Academy of Dermatology Meeting 2002, New Orleans.

Honors/Special Recognition:

Contributing Editor, *Cosmetic Dermatology*
Reviewer, *Dermatologic Surgery*
Reviewer, *Journal of the American Academy of Dermatology*

Departmental Committees:

Finance Committee

Professional Organizations:

American Academy of Dermatology
American College of Mohs Micrographic Surgery and Cutaneous Oncology
American Society of Dermatologic Surgery
American Society of Laser Medicine and Surgery
Womens Dermatologic Society
Pennsylvania Academy of Dermatology
Philadelphia Dermatologic Society

OLGA IGUCHEVA, PH.D.

Instructor

Department of Dermatology and Cutaneous Biology

Publications:

Igoucheva, O., Alexeev, V. and Yoon. K. Targeted gene correction by small single-stranded oligonucleotides in mammalian cells. *Gene Therapy* 8, 391-399 (2001)

Igoucheva O., Alexeev, V and Yoon. K. Nuclear extracts promote gene correction and strand pairing of oligonucleotides to the homologous plasmid. *Antisense and Nucleic Acid Drug Development* 12, 235-426 (2002)

Alexeev, V., Igoucheva, O. Yoon, K. Simultaneous targeted alteration of the tyrosinase and c-kit genes by single-stranded oligonucleotides. *Gene Therapy* (in press) (2002)

Pierce, E.A., Liu, Q.Ma., Igoucheva, O. Diamond, S.A. and Yoon, K. Oligonucleotide-directed single base DNA alterations in mouse embryonic stem cells. *Gene Therapy* (in press) (2002)

Grant Support:

Funded research program - R55002, PI - Yoon. K.

Participation In Scientific/Clinical Meetings And Presentations:

Genome Medicine: gene Therapy for the Millennium, Rome, Italy, September 30-October 3, 2001, Invited Speaker. "Targeted gene correction by RNA-DNA oligonucleotides and oligodeoxynucleotides in mammalian cells".

5th Annual Meeting of the American Society of Gene Therapy, Boston, MA, June5-9, 2002, Invited Speaker. "Targeted gene alteration by oligonucleotides in mammalian cells".

Honors/Special Recognitions:

Promotion to Instructor in Dermatology and Cutaneous Biology

YOUNG C. KAUH, M.D.
Professor and Senior Vice-Chairman
Department of Dermatology and Cutaneous Biology

Publications:

Kenner, J. and Kauh, Y. Leishmaniasis. In Barrett, T. (ed.), EMedicine, 2001

KAUH, Y. SKIN. IN GONNELLA, J. (ED.), DISEASE STAGING; CLINICAL CRITERIA (5TH ED.), 2001

Participation in Scientific/Clinical Meetings and Presentations:

Talk entitled "Human papilloma virus infection and its management," Seoul Dermatological Society Annual Meeting, July, 2001

Talk entitled "Clinico pathological conference on interesting cases," Seoul National University Dermatology Seminar, June, 2002

"Sarcoid, hypopigmented" at Philadelphia Dermatological Society Meeting, October, 2001

"Multicentric Reticulohistiocytosis" at Philadelphia Dermatological Society Meeting, October, 2001

"Scleredema adutorum" at Philadelphia Dermatological Society Meeting, October, 2001

"Lymphoma Cutic (Marginal Zone B-Cell Lymphoma)" at Philadelphia Dermatological Society Meeting, October, 2001

BERNARD A. KIRSHBAUM, M.D.
Adjunct Clinical Professor of Dermatology
Department of Dermatology and Cutaneous Biology

Participation in Meetings: 2001-2002

Philadelphia Dermatological Society Meetings:

October 12, 2001
November 30, 2001
January 18, 2002
March 15, 2002
April 19, 2002

College of Physicians of Philadelphia - Section on Dermatology

October 3, 2002
December 5, 2001
February 13, 2002

Other meetings at the College of Physicians of Philadelphia - Sections on Medical History; Public Health and Preventive Medicine, and other scientific meetings at the College

Duhring Conferences - Grand Rounds and Lectures at the Hospital of the University of Pennsylvania - Thursday mornings throughout the Academic year.

Professional Organizations:

American Academy of Dermatology

Philadelphia Dermatological Society

American Medical Association

Pennsylvania Medical Society

Philadelphia County Medical Society

JASON BOK LEE, M.D.

Clinical Associate Professor

Director of Dermatopathology, Department of Dermatology and Cutaneous Biology

Publications:

Correale D, Divers A, **Lee JB**. Keratoacanthoma centrifugum marginatum: diagnostic and therapeutic challenge. Submission to *Cutis*, in progress

Hwang LY, Richard G, **Lee JB**, Uitto J, Hsu S. Relapsing linear acantholytic dermatosis vs type 1 segmental manifestation of Hailey-Hailey disease: are they synonymous? Submitted to *Journal of the American Academy of Dermatology*

Lee JB, Ben-Aviv D, Covello SP. The diagnostic quandary of hereditary hemorrhagic telangiectasia versus CREST syndrome. *Br J Dermatol* 2001; Vol 145:646-49

Department Committee:

Jefferson Medical College Course Coordinator for Dermatology

Society Membership:

Alpha Omega Alpha (**AΩA**) Honor Medical Society

American Academy of Dermatology

American Society of Dermatopathology

International Society of Dermatopathology

HENRY MAGUIRE, M.D.

Adjunct Professor,

Department of Dermatology and Cutaneous Biology

Publications:

Mastrangelo, M.J., Lattime, E.C., and Maguire, H.C. jr. Intralesional vaccinia/GM-CSF recombinant virus in the treatment of metastatic melanoma. *Adv. Exper. Med. and Biol.* 465: 391-400, 2000.

Yang, J.S., Kim, J., Hwang, D., Choo, A.Y., Dang, K., Maguire, H.C. Jr., Kudchodkar, S., Ramanathan, M.P., and Weiner, D.B.: Induction of potent Th-1-type immune responses from a novel DNA vaccine for West Nile virus New York Isolate (WNV-NY 1999). *J. of Infectious Diseases* 184, 809-816, 2001.

Mastrangelo, M.J., Maguire, H.C. Jr., and Lattime, E.C.: Intralesional vaccinia/GM-CSF recombinant virus in the treatment of metastatic melanoma. In *Cancer Gene Therapy—Past Achievements and Future Challenges*, Habib, NA (Editor), Plenum Publishing Company, New York, 2000.

Gonmella, L.G., Matrangelo, M.J., McCue, P.A., Maguire, H.C. Jr., Mulholland, S.G., and Lattime, E.C.: Phase I study of intravesical vaccinia virus as a vector for gene therapy of bladder cancer. *J. Urol.* 166:1291-1295, 2001.

Berd, D., Sato, T., Cohn, H., Maguire, H.C. Jr., and Mastrangelo, M.J.: Treatment of metastatic melanoma with autologous, hapten-modified melanoma vaccine: Regression of pulmonary metastasis. *Int. J. Cancer* 94:531-539, 2001.

Chattergoon, M.A., Maguire, H.C. Jr., Robinson, T.M., Boyer, J.D. and Weiner, D.B.: Plasmid immunization and protein immunization induce delayed type hypersensitivity reactions to conserved HIV-1 envelope epitopes in the guinea pig. *Hybridoma* 21:117-122, 2002.

Muthumani, K., Zhang, D., Hwang, D.S., Kudchodkar, S., Dayes, N., Desai, B.M., Malik, A.S., Yang, J-S., Chattergoon, M.A., Maguire, H.C. Jr. and Weiner, D.B.: Adenovirus encoding HIV-1 Vpr activates caspase 9 and induces apoptotic cell death in both p53 positive and negative human tumor cell lines. *Oncogene* 21:4613-4625, 2002.

Scientific Presentations:

Maguire, H.C. Jr., Kim, J.J., and Weiner, D. Intratumoral therapy of murine tumors with plasmids expressing cytokines. *Proc. Am. Assoc. Cancer Res.* (#2175) 43:183, 2002.

IRENEUSZ MAJSTEREK, PH.D.

Post-Doctoral Fellow

Department of Dermatology and Cutaneous Biology

Publications:

J. Blasiak, A. Trzeciak, K. Kaczynski, I. Majsterek, G. Hoser, E. Gloc, W. Mlynarski, T. Skorski (2001) Is BCR/ABL-mediated drug resistance linked with enhanced DNA repair capacity? (abstract) *Leukemia* 15: 483.

I. Majsterek and Z. Walter (2001) DNA adducts repair in mammalian mitochondria after *cis*- and *trans*-diamminedichloroplatinum (II) treatment, *Acta Biologica Cracoviensia, Series Zoologia*, 43: 61-67.

Z. Walter, M. Przepiórkiewicz, M. Wojtysiak-Staniaszczyk, M. Przepiórkiewicz, Christos Kargas, M. Gawronska, M. Grabowska and I. Majsterek, (2001) Mitochondrial glutathione-S-transferase from pig thymus and the effect of organophosphate insecticides on their activity, *Acta Biologica Cracoviensia, Series Zoologia*, 43: 49-56.

J. Blasiak, E. Gloc, K. Wozniak, I. Majsterek (2001) In vitro genotoxicity of idarubicin: induction of oxidized and methylated bases and modulation by vitamins C and E and amifostine. (abstract) *Fundamental and Molecular Mechanisms of Mutagenesis, A Section of Mutation Research*, 483, Suppl. 1: P7-12.

I. Majsterek and J. Blasiak (2001) Review: Philadelphia chromosome, *Advances in Biochemistry*, (in Polish) accepted.

A. Slupiaek, G. Hoser, I. Majsterek, A. Bronisz, M. Malecki, R. Fishel, J. Blasiak, T. Skorski (2001) Oncogenic fusion tyrosine kinase induce drug resistance by stimulation of homology-dependent recombination repair, prolongation of G2/M phase and protection from apoptosis. (abstract) *Blood*, 98: 1307.

J. Blasiak, A. Trzeciak, K. Kaczynski, I. Majsterek, G. Hoser, E. Gloc, W. Mlynarski, T. Skorski (abstract) "Is BCR/ABL-mediated drug resistance linked with enhanced DNA repair capacity?" *4th International Symposium on Drug Resistance in Leukemia and Lymphoma*, Amsterdam, The Netherlands, March 7-10, 2001.

Z. Walter, I. Majsterek, P. Sicinska, M. Tarczyska, M. Zalewski, (abstract) The functional alternations of mitochondrial respiratory chain effected by hepatotoxins of Microcystic cyanobacteria. *4th Conference „Bory Tucholskie” – Biosphere Protection*, Suszek, Poland, 19-22 September, 2001.

I. Majsterek, I. Kubryn, K. Kaczynski, J. Blasiak (abstract) „Mechanism of resistance of leukemia cells to cis-diamminedichloroplatinum (II) and mitomycin C activated by oncogenic forms of ABL tyrosine kinaze" *1st Symposium of Polish Oncology and Oncohematology Society and Oncological Surgery Section of Child Surgery Polish Society*, Bydgoszcz, Poland 20-23 June, 2001.

I. Majsterek, I. Kubryn, W. Mlynarski, J. Blasiak (abstract) "The role of *BCR/ABL*-stimulated DNA repair for the resistance of leukemia cells to idarubicin" *1st Symposium of Polish Oncology and Oncohematology Society and Oncological Surgery Section of Child Surgery Polish Society*, Bydgoszcz, 20-23 June, 2001.

J. Blasiak, E. Gloc, K. Wozniak, M. Warszawski, M. Nabozna, W. Mlynarski and I. Majsterek. (abstract) "In vitro genotoxicity of idarubicin – modulation by vitamins C and E and amifostine" *14th Conference of Polish Society of Human Genetics*, Poznan, Poland, 11-13 June, 2001.

Blasiak J, Gloc E, Wozniak K, Majsterek I (abstract) "Idarubicin damages DNA in normal human lymphocytes" *8th International Symposium on Molecular Aspects of Chemotherapy*, Gdansk, Poland, 5-9 September, 2001.

I. Majsterek, I. Kubryn, K. Kaczynski, J. Blasiak (abstract) "*Abl* oncogene-mediated drug resistance to mitomycin C and *cis*-diamminedichloroplatinum (II)" *8th International Symposium on Molecular Aspects of Chemotherapy*, Gdansk, Poland, 5-9 September, 2001.

I. Majsterek, I. Kubryn, W. Mlynarski, J. Blasiak (abstract) "Is *BCR/ABL*-mediated increase in the effectiveness of DNA repair involved in the drug resistance?" *8th International Symposium on Molecular Aspects of Chemotherapy*, Gdansk, Poland, 5-9 September 2001.

J. Blasiak, E. Gloc, K. Wozniak, I. Majsterek (abstract) "In vitro genotoxicity of idarubicin: induction of oxidized and methylated bases and modulation by vitamins C and E and amifostine" *8th International Conference on Environmental Mutagens*, Shizuoka, Japan, 21-26 October, 2001.

A. Slupiaek, G. Hoser, I. Majsterek, A. Bronisz, M. Malecki, R. Fishel, J. Blasiak, T. Skorski (abstract) Oncogenic fusion tyrosine kinase induce drug resistance by stimulation of homology-dependent recombination repair, prolongation of G2/M phase and protection from apoptosis. *American Society of Hematology, Forty-third annual meeting program and abstracts*, Orlando, Floryda, December 7-11, 2001.

I. Majsterek, J. Blasiak, M. Mlynarski, G. Hoser and T. Skorski (2002) Does the *bcr/abl*-mediated increase in the efficacy of DNA repair play a role in the drug resistance of cancer cells? *Cell Biology International*, 26(4): 363-70.

J. Blasiak, E. Gloc, K. Wozniak, K. W. Mlynarski, M. Stolarska and I. Majsterek (2002) Genotoxicity of idarubicin and its modulation by vitamins C and E and amifostine, *Chemico-Biological Interactions*, Apr 20;140(1):1-18.

A. Slupianek, G. Hoser, I. Majsterek, A. Bronisz, M. Malecki, R. Fishel, J. Blasiak and T. Skorski (2002) Fusion tyrosine kinases induce drug resistance by stimulation of homology-dependent recombination repair, prolongation of G(2)/M phase, and protection from apoptosis. *Molecular & Cellular Biology*. Jun;22(12): 4189-201.

J. Blasiak, I. Majsterek, G. Hoser, A. Slupianek, T. Skorski (2002) TEL/ABL tyrosine kinase increases effectiveness of DNA repair after drug and radiation treatment, *Leukemia*, submitted.

I. Majsterek, J. Blasiak, G. Hoser, A. Slupianek and T. Skorski (2002) TEL oncogenic tyrosine kinases determine leukemic cells response to idarubicin *Leukemia & Lymphoma*, submitted.

G. Hoser, I. Majsterek, DL. Romana, J. Blasiak and T. Skorski (2002) Fusion oncogenic tyrosine kinases facilitate DNA repair after genotoxic treatment: role in drug resistance? *Leukemia Research*, submitted.

YASUSHI MATSUZAKI, M.D., PH.D.

Post-Doctoral Fellow

Department of Dermatology and Cutaneous Biology

Publications:

Y. Matsuzaki, K. Li, A. Nakano, S. Aho, L. Pulkkinen and J. Uitto. Tissue-specific expression and transcriptional modulation of human ABCC6, the gene mutated in pseudoxanthoma elasticum. JID, in press

Membership in Professional Organizations :

Society for Investigative Dermatology

Japanese Society for Investigative Dermatology

XIANMIN MENG, M.D., PH.D.

Post-doctoral fellow

Department of Dermatology and Cutaneous Biology

Publications:

Meng X., Klement J., Pulkkinen L. and Uitto J. (2002). Targeted ablation of the murine LAMC2 gene recapitulates human Herlitz Junctional Epidermolysis Bullosa phenotype. *J Invest Dermatol.* (In press).

Participation in Scientific/Clinical Meetings and Presentations:

Targeted ablation of the murine LAMC2 gene recapitulates human Herlitz Junctional Epidermolysis Bullosa phenotype. Meng X., Klement J., Pulkkinen L. and Uitto J. Presented at the 63rd Annual Meeting of The Society for Investigative Dermatology. Los Angeles, California. May 15-18, 2002.

Honors/Special Recognitions:

Albert M. Kligman Fellowship, April, 2002.

Memberships in Professional Organizations:

The Society for Investigative Dermatology
American Society of Gene Therapy

JOSEPH L PACE , MD FRCP Edin FRCP
Lond FCPP FAAD KM
Adjunct Clinical Professor
Department of Dermatology and Cutaneous Biology

Publications:

Pyoderma Gangrenosum. Chapter Editor in European Text Book of Dermatological Treatment Eds
Katsambas A Lotti T 2002

DERMATOLOGICAL PROBLEMS OF MILITARY IN WARTIME CLINCIS IN DERMATOLOGY ED
WOLF R 2002

Participation in Scientific/Clinical Meetings and Presentations:

Wroclaw Poland Annual meeting Polish Society Dermatology *Leishmaniasis*
Antalya Turkey AMED Congress *Pyoderma gangrenosum*
Antalya Turkey AMED Congress *Leprosy in the Mediterranean*
Rhodes Greece Clinical Meeting of Dermatology *Pyoderma gangrenosum*
Plovdiv Bulgaria Annual Congress Bulgarian Dermatological Society *Skin Cancer in the
Mediterranean*
Bratislava Slovakia V Congress Slovak Society of Dermatology-DermParty *Acne and antibiotics*
Malta Association of Pharmacists Annual Lecture October 2001 *Why Cosmetic Dermatology?*
Malta Chamber of Pharmacists April 2002 *Treating acne in a sunny climate*

Honors/Special Recognitions:

Knight of Malta
Board Member European Academy of Dermatology & Venereology
President Maltese Association of Dermatology & Venereology
President Foundation of Medical Services, Malta This autonomous organisation is currently mandated
to commission Malta's new teaching hospital and will be responsible for management of all Government hospitals
effective 2003
Chairman European Academy of Dermatology & Venereology First International Spring
Symposium Malta 2003
Incoming President Rotary Club Malta

University Committees:

Senior Examiner Dermatology & Venereology University of Malta Medical School
Examiner Internal Medicine University of Malta Medical School

Professional Organizations:

Medical Association of Malta
Maltese Association of Dermatology & Venereology
European Academy of Dermatology & Venereology

American Academy of Dermatology
College of Physicians of Philadelphia
Mediterranean Association of Dermatology
International Academy Cosmetic Dermatology IACD
Honorary Member Bulgarian Dermatological Society
Honorary Member Polish Dermatological Society

LAWRENCE CHARLES PARISH, MD,
Clinical Professor
Department of Dermatology and Cutaneous Biology

Publications:

Parish LC. Louis A Duhring 1845 - 1913: his life and legacy. *Acta Dermatovenerol Croat.* 2002 Mar;10(1):21-4.

Witkowski JA, Parish LC. Related Articles: The great imitator: malignant syphilis with hepatitis. *Clin Dermatol.* 2002 Mar-Apr;20(2):156-63.

Parish LC. Moxifloxacin *Drugs* 2002 62:974.

Rist T, Parish LC, Capin LR, Sulica V, Bushnell WD, Cupo MA. A comparison of the efficacy and safety of mupirocin cream and cephalexin in the treatment of secondarily infected eczema. *Clin Exp Dermatol.* 2002 Jan;27(1):14-20.

Robson MC, Phillips TJ, Falanga V, Odenheimer DJ, Parish LC, Jensen JL, Steed DL. Randomized trial of topically applied repifermin (recombinant human keratinocyte growth factor-2) to accelerate wound healing in venous ulcers. *Wound Repair Regen.* 2001 Sep-Oct;9(5):347-52.

Witkowski JA, Parish LC. Pediculosis and resistance: the perennial problem. *Clin Dermatol.* 2002 Jan-Feb;20(1):87-92.

Parish LC, Crissey JT, Parish JL. Bibliography of secondary sources on the history of dermatology. III. Books, monographs, and chapters in English supplemented through 2000. *Clin Dermatol.* 2001 Nov-Dec;19(6):788-9.

Parish LC, Witkowski JA, Routh HB. Moxifloxacin (Avelox) for the treatment of bacterial skin infections. *Skin Therapy Lett.* 2001 Oct;6(11):1-2.

Parish LC, Crissey JT, Parish JL. Bibliography of secondary sources on the history of dermatology. II. Obituaries and biographies in English: supplemented through 2000. *Clin Dermatol.* 2001 Sep-Oct;19(5):650-3.

Witkowski JA, Parish LC. You've come a long way baby: a history of cosmetic lead toxicity. *Clin Dermatol.* 2001 Jul-Aug;19(4):367-70.

Parish LC, Crissey JT, Parish JL. Bibliography of secondary sources on the history of dermatology. I. Journal Articles in English: supplemented through 2000. *Clin Dermatol.* 2001 Jul-Aug;19(4):526-3.

Books:

Crissey JT, Parish LC, Holubar K. Historical Atlas of Dermatology and Dermatologists. 2002 New York Parthenon Publishing 2002L 345 pp

Book Chapters:

Witkowski JA, Parish LC. Decubitus ulcers in Lebowitz M, Heymann WR, Berth-Jones J, Coulson I: Treatment of Skin Disease: Comprehensive Therapeutic Strategies. 2002 St Louis Mosby 2002:141-5

Book Reviews:

Tropical Dermatology Clin Dermatol 2002 Jan-Feb 20 (1): 97.

Advanced Dermatologic Therapy II Clin Dermatol 2002 Jan-Feb 20 (1): 97-8.

Comprehensive Dermatologic Drug Therapy 2001 Clin Dermatol 2002 Jan-Feb 20 (1): 97.

Exhibits:

Macrolides through Five Decades. European Academy of Dermatology and Venereology, Munich, Germany, October 10-14, 2001

Presentations:

Louis A. Duhring 1845-1913. European Academy of Dermatology and Venereology, Munich, Germany, October 11, 2001

Anthrax and Smallpox. American Academy of Dermatology, New Orleans, Louisiana, February 22, 2002.

Historical Aspects of Cosmetics. Annual Congress of the Dermatological Society of South Africa, Durban South Africa, April 17, 2002.

Camouflage and Cosmetic Dermatology., Annual Congress of the Dermatological Society of South Africa, Durban South Africa, April 17, 2002.

New Faces for the 21st Century: Rosacea. Annual Congress of the Dermatological Society of South Africa, Durban South Africa, April 17, 2002.

Decubitus Ulcers in Clinical Practice. Annual Congress of the Dermatological Society of South Africa, Durban South Africa, April 18, 2002.

The Scientific Contributions of Balneology. Annual Congress of the Dermatological Society of South Africa, Durban South Africa, April 19, 2002.

Clarithromycin in Dermatological Practice. Annual Congress of the Dermatological Society of South Africa, Durban South Africa, April 20, 2002.

Global Dermatology: Return of the Scourges of Anthrax and Smallpox Dermatology Update and All That Jazz, Tulane University School of Medicine, New Orleans, Louisiana, April 27, 2002

Highlights in the Development of Dermatovenerology in North America New Highlights in Dermatovenerology, Opatija, Croatia, May 16, 2002

Seminars Organized and Chaired:

History of Dermatology. History of Dermatology Society, New Orleans, Louisiana, February 21, 2002

History of French Dermatology, Tri-Societies Meeting, Paris, France, June 30, 2002

Meetings Attended:

10th European Academy of Dermatology and Venereology, Munich , Germany, October 10-14, 2001

62nd Annual Meeting of the American Academy of Dermatology, New Orleans, Louisiana, February 22 –27, 2002.

Annual Congress of the Dermatological Society of South Africa, Durban, South Africa, April 17 –20, 2002.

18th Annual Dermatology Update and All That Jazz, Tulane University School of Medicine, New Orleans, Louisiana, April 25-27, 2002

New Highlights in Dermatovenerology, Second Congress of Croatian Dermatovenerologists with International Participation, Opatija, Croatia, May 16-19, 2002.

Honors/Special Recognition:

Appointed Editor-in-Chief, SKINmed

Professional Organizations:

Member or Fellow:

American Association for the History of Medicine, American College of Physicians, American Dermatological Association, American Academy of Dermatology, Canadian Dermatology Association, Canadian Society for the History of Medicine, College of Physicians of Philadelphia (Section on the History of Medicine of the College of Physicians of Philadelphia, Section on Dermatology of the College of Physicians of

Philadelphia), European Academy of Dermatology and Venereology. European Society for the History of Dermatology and Venereology, French Society for the History of Dermatology and Venereology, History of Dermatology Society (president), International Academy of Cosmetic Dermatology (president), Pennsylvania Academy of Dermatology, Philadelphia Dermatological Society

Honorary Member or Fellow:

American College of Veterinary Dermatology, Bulgarian Society of Dermatology, Florida Society of Dermatology, Italian Society of Dermatology and Venereology, Polish Academy of Dermatology, Venezuelan Society of Dermatology, Bulgarian Society of Dermatology (honorary member),

Corresponding Member or Fellow:

British Association of Dermatologists, French Society of Dermatology and Syphilology, Israeli Society of Dermatology

Yoon-Kee Park, M.D., Ph.D.

Adjunct Professor

Department of Dermatology and Cutaneous Biology

Publications:

YK Park, JH Lee, WG Chung: Allergic Contact Dermatitis from Calcipotriol. *Acta Derm Venereol* 82:71, 2002

WG Chung, J Park, YK Park, KH Lee: A case of cutaneous cryptococcosis resembling Verrucous Granuloma. *Korean J Med Mycology* 7(1):42-46, 2002

Kee Yang Chung, Nam Soo Chang, Yoon Kee Park, and Kwang Hoon Lee: Effect of Ultraviolet Light on the Expression of Adhesion Molecules and T Lymphocyte Adhesion to Human Dermatol Microvascular Endothelial Cells. *Yonsei Med J* 43(2):165-174, 2002

Yoon-Kee Park, Won Soon Chung, Hoon Lee, Sungwon Jung: Whitening effect of cosmetics containing magnesium L-Ascorbyl-2-Phosphate(VC-PMG, vitamin C Derivatives) Assessed by Colorimeter. *Ann Dermatol* 14(2):63-70. 2002

Presentations:

Follicular basal cell hyperplasia overlying a dermatofibroma. KH Kim, YK Park, 10th Congress of European Academy of Dermatovenereology, Munch, Germany, 10-14 Oct. 2001

Clinical Study of Nevus Anemicus, WG Chung, HG Chung, SK Hann, YK Park, 3rd Korea-China International conference of Dermatology and Mycology, Seoul, Korea May 31-June 1, 2001

The mechanism and modern therapy for vitiligo, YK Park, III World Congress of the International Society of Cosmetic Dermatology. "Nutri-cosme-Ceuticals: A challenge for the Future?" Feb. 6-8, 2002, Rome, Italy

Allergic Contact Dermatitis from Calcipotriol, JH Lee, WG Chung, YK Park, 12th Japan-Korea Joint Meeting of Dermatology Nov. 8-9, 2001, Tokyo, Japan

A case of Cutaneous Cryptococcosis resembling verrucous Granuloma.

YK Park, WG Chung, JH Lee, KH Lee, 6th Asian Dermatological Congress Nov 11-13, 2001, Bangkok, Thailand

ELLEN G PFENDNER, BS , PHD

Assistant Professor of Dermatology and Cutaneous Biology

Publications:

Pfendner, E, J Uitto, and J-D Fine 2001 Letter to the editor: Epidermolysis Bullosa Carrier Frequencies in the US Population. *Journal of Investigative Dermatology* 116:483-484.

Sprecher E, S Chavanas, J DiGiovanna, S Amin, K Nielsen, J S Prendiville, R Silverman, N B Esterly, M K Spraker, E Guelig, M L de Luna, M L Williams, B Buehler, E Pfendner S J Bale, J Uitto, A Hovnanian and G Richard 2001 The spectrum of pathogenic mutations in SPINK5 in 19 families with Netherton Syndrome -Implications for mutation detection and first case of prenatal diagnosis. *Journal Investigative Dermatology* 117:179-187.

Nakano A, S-C Chao, L Pulkkinen, D Murrell, L Bruckner-Tuderman, E Pfendner, J Uitto 2002 Laminin 5 Mutations in Junctional Epidermolysis Bullosa: Molecular Basis of Herlitz vs Non-Herlitz Phenotypes. *Human Genetics*, In Press.

Nakano A, G G Lestringant, T Paperna, R Bergman, R Gershoni, P Frossard, M Kanaan, G Meneguzzi, G Richard, E Pfendner, J Uitto, L Pulkkinen and E Sprecher 2002 Junctional epidermolysis bullosa in the Middle East: clinical and genetic studies in a series of consanguineous families. *Journal of the American Academy of Dermatology*, In Press.

Schroder, R, WS Kunz, F Rouan, E Pfendner, K Tolksdorf, K Kappes-Horn, M Altenschmidt-Mehring, R Knoblich, P van der Ven, J Reimann, D Furst, I Blumcke, S Vielhaber, D Zillikens, S Eming, T Klockgether, J Uitto, G Wiche, A Rolfs 2002 Disorganization of the desmin cytoskeleton and mitochondrial dysfunction in plectin-related muscular dystrophy with epidermolysis bullosa simplex. *Journal of Neuropathology and Experimental Neurology*, In Press.

Nakano, A, G Gilles, T Lestringant, T Paperna, R Bergman, R Gershoni, P Frossard, M Kanaan, G Richard, E Pffender, J Uitto, L Pulkkinen and E Sprecher 2002 Junctional Epidermolysis Bullosa in the Middle East: clinical and genetic studies in a series of consanguineous families. *Arch Dermatology*, In Press.

Grant Support:

2 P01 AR38923 - 16 (UITTO, JOUNI J, M.D., PH.D.)

05/15/87-03/31/07 50%

NIH/NIAMS \$524,949

MOLECULAR GENETICS OF SKIN BASEMENT MEMBRANE ZONE

This program project grant is for elucidation of molecular defects in the cutaneous basement membrane zone in epidermolysis bullosa, a group of genetic blistering diseases.

Participation in Scientific/Clinical Meetings and Presentations:

Prenatal Diagnosis Of Epidermolysis Bullosa Ellen G Pfendner Debra Patient Conference Philadelphia Pa Nov 16-18 2001

Professional Organizations:

American Society of Human Genetics

Society of Investigative Dermatology

American Association for the Advancement of Science

LEENA PULKKINEN, PH.D.
Research Associate Professor
Department of Dermatology and Cutaneous Biology

Publications:

Nakano A, Pulkkinen L, Murrell D, Rico J, Lucky AW, Garzon M, Stevens CA, Robertson S, Pfindner E, Uitto J. Epidermolysis bullosa with congenital pyloric atresia: Novel mutations in the $\beta 4$ integrin gene (ITGB4) and genotype/phenotype correlations. *Pediatr Res* 49: 618-626, 2001.

Nakano A, Nomura K, Nakano H, Ono Y, Pulkkinen L, Hashimoto I, Uitto J. Papillon-Lefevre syndrome: Mutations and polymorphisms in the cathepsin C gene. *J Invest Dermatol* 116:339-343, 2001.

Ringpfeil F, Nakano A, Uitto J, Pulkkinen L. Compound heterozygosity for a recurrent 16.5 kb Alu-mediated deletion mutation and single-base substitutions in the ABCC6 gene results in pseudoxanthoma elasticum. *Am J Hum Genetics* 68: 642-652, 2001.

Klausegger A, Pulkkinen L, Pohla-Gubo G, Dallinger G, Puttinger R, Uitto J, Hintner H, Bauer JW. Is screening of the candidate gene necessary in unrelated partners of members of families with Herlitz junctional epidermolysis bullosa? *J Invest Dermatol* 116: 474-475, 2001.

Kallinen J, Heinonen S, Ryyänen M, Pulkkinen L, Mannermaa A. Antenatal genetic screening for congenital nephrosis. *Prenat Diagn* 21:81-84, 2001.

Spirito F, Chavanas S, Prost-Squarcioni C, Pulkkinen L, Fraitag S, Bodemer C, Ortonne JP, Meneguzzi G. Reduced expression of the epithelial adhesion ligand laminin 5 in the skin causes intradermal tissue separation. *J Biol Chem* 276: 18828-18835, 2001.

Pulkkinen L, Nakano A, Ringpfeil F, Uitto J. Identification of ABCC6 pseudogenes on human chromosome 16p: Implications for mutation detection in pseudoxanthoma elasticum. *Human Genet* 109:356-65, 2001.

Nakano A, Lestringant GG, Paperna T, Bergman R, Gershoni R, Frossard P, Kanaan M, Meneguzzi G, Richard G, Pfindner E, Uitto J, Pulkkinen L, Sprecher E. Junctional epidermolysis bullosa in the Middle-East: Clinical and genetic studies in a series of consanguineous families. *J Am Acad Dermatol* 46: 510-516, 2002.

Mahoney MG, Simpson A, Aho S, Uitto J, Pulkkinen L. Interspecies conservation and differential expression of mouse desmoglein gene family. *Exp Derm* 11: 115-125, 2002.

Nakano A, Chao S-C, Pulkkinen L, Murrell D, Murrell D, Bruckner-Tuderman L, Pfindner E, Uitto J. Laminin 5 mutations in junctional epidermolysis bullosa: Molecular basis of Herlitz vs. non-Herlitz phenotypes. *Human Genet* 110:41-51, 2002.

Whittock NV, Wan H, Morley SM, Garzon MC, Kristal L, Hyde P, McLean WH, Pulkkinen L, Uitto J, Christiano AM, Eady RA, McGrath JA. Compound heterozygosity for non-sense and mis-sense mutations in desmoplakin underlies skin fragility/woolly hair syndrome. *J Invest Dermatol* 118:232-238, 2002.

Pulkkinen L, Choi YW, Simpson A, Montagutelli X, Sundberg J, Uitto J, Mahoney MG. Mechanism for loss of cell adhesion in Bal^{pas} mice with homozygous deletion mutation (2079del14) in the desmoglein 3 gene. (Submitted).

Book chapters and review articles:

Pulkkinen L, Uitto J. Biology and pathology of hemidesmosomes, attachment complexes of the cutaneous basement membrane zone. In: *Cell Adhesion and Migration in Skin Disease*, (JA McGrath and JNWN Baker, eds). Harwood Academic Publishers, Amsterdam, 2001, pp 107-131.

Uitto J, Pulkkinen L. Epidermolysis bullosa, the disease of the cutaneous basement membrane zone. In: *The Metabolic and Molecular Basis of Inherited Diseases* (Scriver CR, Beaudet A, Sly WS, Valle D, Vogelstein B, Childs B, eds) McGraw Hill, New York, 2001. Vol IV, pp 5655-5671.

Uitto J, Pulkkinen L, Ringpfeil F. Molecular genetics of pseudoxanthoma elasticum – a metabolic disorder at the environment/genome interface? *Trends Mol Med* 7:13-17, 2001

Uitto J, Pulkkinen L. Heritable disorders affecting the elastic tissues: Cutis laxa, pseudoxanthoma elasticum and related disorders. In: *Principles and Practice of Medical Genetics* (Rimoin DL, Connor JM, Pyeritz RE, Korf BR, eds), Churchill Livingstone, Philadelphia, 2002, vol 3, pp 4044-4070. 1.

Uitto J, Pulkkinen L. Molecular genetics of blistering disorders. *Arch Dermatol* 137:1458-1462, 2001

Pulkkinen L, Ringpfeil F, Uitto J. Progress in heritable skin diseases: Molecular bases and clinical implications. *J Am Acad Dermatol* (in press), 2001.

Ringpfeil F, Pulkkinen L, Uitto J. Molecular genetics of pseudoxanthoma elasticum. *Exp Derm* 10: 221-228, 2001

Uitto J, Pulkkinen L, Ringpfeil F. Progress in molecular genetics of heritable skin diseases. *J Invest Dermatol*, Symposium Proceedings, 2002.

Uitto J, Ringpfeil F, Pulkkinen L. Heritable disorders of connective tissue – Ehlers-Danlos syndrome, Pseudoxanthoma Elasticum and Cutis Laxa. (In press)

Abstracts:

Ringpfeil F, Nakano A, Lebwohl G, Pulkkinen L, Uitto J. Pseudoxanthoma elasticum: mutations in the MRP6 gene encoding a transmembrane ABC transporter. The American Society of Human Genetics, 50th Annual Meeting, October 3-7, 2001, Philadelphia, PA. Abs no 9.

Nakano A, Chao SC, Pfindner E, Pulkkinen L, Murrell D, Sybert V, Uitto J. Novel and recurrent mutations in laminin 5 subunit genes (LAMA3 and LAMB3) in junctional epidermolysis bullosa: phenotype/genotype correlations. American Society of Human Genetics, 50th Annual Meeting, October 3-7, 2001, Philadelphia, PA. Abs no 2258.

Mahoney MG, Simpson A, Aho S, Pulkkinen L, Uitto J. Interspecies conservation and differential expression of mouse desmoglein gene family. *J Invest Dermatol* 117: 393, 2001, Abs no 24.

Ringpfeil F, Nakano A, Uitto J, Pulkkinen L. Compound heterozygosity for recurrent 16.5-kb Alu-mediated deletion mutation and single-base pair substitutions in the ABCC6 gene results in pseudoxanthoma elasticum. *J Invest Dermatol* 117: 514, 2001, Abs no 749.

Pulkkinen L, Nakano A, Ringpfeil F, Uitto J. Characterization of ABCC6 pseudogenes on human chromosome 16p: Implications for mutation detection in pseudoxanthoma elasticum. *J Invest Dermatol* 117: 515, 2001, Abs no 751.

Pfindner EG, Nakano A, Nielsen K, Pulkkinen L, Christiano A, Uitto J. 101 prenatal diagnoses by the DebRA molecular diagnostics laboratory at Jefferson. *J Invest Dermatol* 117: 516, 2001, Abs no 757.

Nakano A, Nomura K, Nakano H, Ono Y, La Forgia S, Pulkkinen L, Hashimoto I, Uitto J. Papillon-Lefevre syndrome: mutations and polymorphisms in the cathepsin C gene. *J Invest Dermatol* 117: 519, 2001, Abs no 775.

Klauegger A, Pulkkinen L, Pohla-Gubo G, Puttinger R, Uitto J, Hintner H, Bauer JW. Molecular basis of lethal junctional epidermolysis bullosa (JEB) in two families: Identification of a nonsense mutation in exon 17 and a splice site mutation in exon 3 of the LAMC2 gene. *J Invest Dermatol* 115: 574, 2001 Abs no 269.

Uitto J, Meng X, Klement J, Pulkkinen L. Targeted ablation of the murine LAMC2 gene recapitulates human Herlitz junctional epidermolysis bullosa phenotype. Annual Meeting of The European Society for Dermatological Research, Stockholm, Sweden, September 2001

Meng X, Klement J, Uitto J, Pulkkinen L. Targeted ablation of the murine LAMC2 gene recapitulates human Herlitz junctional epidermolysis bullosa phenotype. The Society for Investigative Dermatology, 63rd Annual Meeting, Los Angeles, USA, May 15-19, 2002.

Grants

R03 AR47111 (L. Pulkkinen) NIH/NIAMS Mouse Models for Gene Therapy and Junctional EB	08/01/00-07/30/03 \$ 50,000/year
DebRA Foundation (L. Pulkkinen) <i>Generation of Non-Herlitz Junctional EB Mouse Model for Development of Gene Therapy</i>	04/01/01-03/31/02 \$ 44,000/year
2 P01 AR38923 - 16 (J. Uitto,) NIH/NIAMS <i>Molecular Genetics of Skin Basement Membrane Zone</i> Co-PI: L. Pulkkinen	05/15/87-03/31/07 \$ 524,949
2 R01 AR41439 – 23A1 (Uitto) NIH/NIAMSD <i>Collagen Biosynthesis by Cultured Fibroblasts</i> Co-PI: L. Pulkkinen	08/01/91 - 03/31/07 \$ 242,500

FRANZISKA RINGPFEIL, MD
Assistant Professor
Department of Dermatology

Publications

Pulkkinen L, Ringpfeil F, Uitto J. Identification of ABCC6 pseudogenes on human chromosome 16p: Implications for mutation detection in pseudoxanthoma elasticum. Hum Genet 109:356-65, 2001

Pulkkinen L, Ringpfeil F, Uitto J. Progress in heritable skin diseases: Molecular bases and clinical implications. Am Acad Dermatol 47:91-104, 2002

Ringpfeil F, Pulkkinen L, Uitto, J. Molecular genetics in pseudoxanthoma elasticum. Exp Dermatol 2001; 10:221-8, 2001

Ringpfeil F, Pfindner E, Saxena A, Nakano A, Uitto J. Pseudoxanthoma elasticum: improved mutation detection strategies with dHPLC. J Invest Dermatol 119:271, 2002

Uitto J, Pulkkinen L, Ringpfeil F. Progress in Molecular genetics of heritable skin diseases. J Invest Dermatol (in press)

Saxena A, Ringpfeil F. A localized papular eruption and a painless plaque. Arch Dermatol (submitted)

Book Chapters

1. Ringpfeil F. Darier Disease. In: NORD Guide to rare diseases. 2002 (in press)
2. Uitto J, Ringpfeil F, Pulkkinen L. Heritable disorders of connective tissue. In J. Bologna, J. Jorizzo, R. Rapini, et al. Dermatology, Harcourt, London 2002 (in press)
3. Richard G, Ringpfeil F. Ichthyoses, erythrokeratodermas and related disorders. In: J. Bologna, J. Jorizzo, R. Rapini, et al. Dermatology, Harcourt, London 2002 (in press)

Participation in Scientific/ Clinical Meetings and Presentations

1. Large deletion mutations and gene duplications in ABCC6: Relevance to PXE. Gordon Conference on Elastin and Elastic Fibers, Meriden, New Hampshire, July 29-August 3, 2001 (invited speaker)
2. Identification of ABCC6 pseudogenes human chromosome 16p: Implications for mutation detection in pseudoxanthoma elasticum. Pulkkinen L, Nakano A, Ringpfeil F, Uitto J. American Society for Human Genetics 51st Annual Meeting, San Diego, California, October 12-16, 2001
3. Society for Pediatric Dermatology 14th Annual Pre-AAD Meeting, New Orleans, Louisiana, February 21, 2002
4. American Academy of Dermatology, 60th Annual Meeting, New Orleans, Louisiana, February 22-27, 2002

5. Pseudoxanthoma elasticum: Improved mutation detection strategies with dHPLC. Ringpfeil F, Pfendner E, Saxena A, Nakano A, Uitto J. Society for Investigative Dermatology 63rd Annual Meeting, Los Angeles, California, May 15-18, 2002

Honors

2002 Alpha Omega Alpha Medical Honor Society, Philadelphia Chapter: Faculty Award

Membership in Professional Organizations

- American Academy of Dermatology
- Dermatology Foundation
- Society for Investigative Dermatology
- Society for Pediatric Dermatology
- Medical Advisory Board, NAPE (National Association for Pseudoxanthoma elasticum)

ULRICH RODECK, M.D.

Associate Professor

Department of Dermatology and Cutaneous Biology

Publications:

Bellone G., Carbone A., Tibaudi D., Mauri F., Ferrero I., Smirne C., Suman F. Rivetti C., Camandona M., Palestro G., Emanuelli G., Rodeck U. 2001. Differential expression of transforming growth factors-b1, -2 and -3 in human colon carcinoma. *Eur. J. Cancer* 37:224-233.

Jost, M., Huggett, T., Kari, C., Boise, L.H., and Rodeck, U. 2001. EGFR-dependent control of keratinocyte survival and Bcl-xL expression through a MEK-dependent pathway. *J Biol. Chem.* 276:6320-26.

Bellone, G., Carbone, A., Sibona, N., Bosco, O., Tibaudi, D., Smirne, C., Martone, T., Gramigni, C., Camandona, M. Dei Poli, M., Emanuelli, G., and Rodeck, U. 2001. Aberrant activation of c-kit protects colon carcinoma cells against apoptosis and enhances their invasive potential. *Cancer Res.* 61:220-2206.

Jost, M., Gasparro, F., Jensen, P.J, and Rodeck, U. 2001. Keratinocyte apoptosis induced by UVB radiation and CD95 ligation - differential protection through EGF receptor activation and Bcl-xL expression. *J. Invest. Dermatol.* 116:860-866.

Jost, M., Huggett, T., Kari, C., and Rodeck, U. 2001. Matrix-independent survival of human keratinocytes through activation of the EGF receptor. *Mol. Biol. Cell* 12:1519-1527.

Giambenardi, T.A., Sakaguchi, A.Y., Gluhak, J., Pavlin, D., Troyer, D., Rodeck, U., and Klebe, R.J. 2001. Neutrophil collagenase (MMP-8) is expressed during early development in neural crest cells as well as in adult melanoma cells. *Matrix Biol.* 20:577-587.

Simpson, A., Uitto, J., Rodeck, U., and Mahoney, M.G. 2001. Cloning and characterization of MTA3, a novel member of the metastasis-associated gene family: Differential expression and subcellular distribution of MTA1 and MTA3. *Gene* 273:29-39.

Shin, I., Bakin, A.V., Rodeck, U., Brunet, A., and Arteaga, C.L. 2001. Transforming growth factor b enhances survival via Akt-dependent regulation of Forkhead Transcription Factor FKHRL1. *Mol. Biol. Cell* 12:3328-3339.

Graeven, U., Rodeck, U., Karpinski, S., Jost, M., Phillipou, S., and Schmiegel, W. 2001. Modulation of angiogenesis and tumorigenicity of human melanocytic cells by VEGF and bFGF. *Cancer Res.* 61:7282-7290.

Mahoney, M. G., Simpson, A., Noe, M., Pepe, D., Jost, M., Uitto, J., and Rodeck, U. 2002. EGFR-dependent MTA1 expression contributes to anchorage-independent survival of immortalized epidermal keratinocytes. *Oncogene* 21:2161-2170, 2002.

Aho, A., Levansuo, L., Montonen, O., Kari, C., Rodeck, U., and Uitto, J. 2002. Specific sequences in p120ctn determine subcellular distribution of its multiple isoforms involved in cellular adhesion of normal and malignant epithelial cells. *J. Cell Sci.* 115:1391-1402.

Wahl, M.L., Owen, J.A., Burd, R., Fulcher, K., Fleming, C.M., Lee, S., Herlands, R.A., Nogami, S.S., Pollard, M., Rodeck, U., Leeper, D.B., and Owen, C. 2002. Regulation of intracellular pH in human melanoma: potential therapeutic implications. *Mol. Cancer Ther.* 1:617-628.

Chan, T.O., Rodeck, U., Chan, A.M., Kimmelman, A.C., Rittenhouse, S.E., Panayotou, G, and Tsihchlis, P.N. 2002. Small GTPases and tyrosine kinases co-regulate a molecular switch in the phosphoinositide 3-kinase regulatory subunit. *Cancer Cell* 1:181-191.

Rouan, F., Lo, C.W., Fertala, A., Wahl, M., Rodeck, U., Uitto, J., and Richard, G. 2002. Functional consequences of two dominant GJB3 mutations expressed in HeLa cells. *Exp. Dermatol.* (in press).

Pistritto, G., Jost, M., Srinivasula, S.M., Baffa, R., Kari, C., Rodeck, U., and Alnemri, E. 2002. Expression and transcriptional regulation of caspase-14 in simple and complex epithelia. *Cell Death & Diff.* (in press).

Csaba Kari, Marlene Rocha De Quadros, Tung, O. Chan and Rodeck, U. Targeting the epidermal growth factor receptor in cancer - apoptosis takes center stage" (submitted).

SEUNG-KYUNG HANN, M.D.
*Clinical Professor, Department of Dermatology,
College of Medicine, Yonsei University, Seoul, Korea*

Publications:

Side Effect of Suntan, Seung-Kyung Hann, Journal of Korean Medical Association, In Press, 2002

Scientific Presentations:

The Classification of Segmental Vitiligo on the Face

- ? Seung-Kyung Hann, 12th Japan Korea Dermatology Meeting, Tokyo, Nov. 19th, 2001

Diagnosis & Treatment of Photosensitive Disease

- ? Seung-Kyung Hann, 12th Korean Photomedicine Symposium, Seoul, Feb. 16th, 2002

Membership in Professional Organizations:

Board Member of Korean Dermatological Association

Honors/Special Recognitions:

Consulting Dermatologist of the 121st Hospital of U.S. 8th Army in Seoul

TAKESHI TSUDA, M.D.
Assistant Professor
Department of Dermatology and Cutaneous Biology

Publications:

Tsuda T, Wang H, Timpl R, Chu M-L. Fibulin-2 expression marks transformed mesenchymal cells in developing cardiac valves, aortic arch vessels, and coronary vessels. *Developmental Dynamics* 222:89-100

Tsuda T, Pan T-C, Evangelisti L, Chu M-L. Prominent expression of lysyl oxidase during mouse embryonic cardiovascular development. *Submitted*.

Grant Support:

NIH R01 GM55625 Co-Investigator P.I. Chu, M-L

Participation in Scientific/Clinical Meetings and Presentation

TSUDA T, WANG, H., TIMPL, R., AND CHU, M-L. FIBULIN-2 EXPRESSION IN DEVELOPING CARDIAC VALVES, AORTIC ARCH VESSELS AND CORONARY VESSELS. GORDON RESEARCH CONFERENCE, ELASTIN AND ELASTIC FIBERS, KIMBALL ACADEMY, NH, AUGUST 2001

Tsuda T, Gao E, Evangelisti L, Zou Y-Q, Markova D, Ma X-L Chu M-L. Novel experimental approach to study ventricular remodeling. The Nemours Cardiac Center Research Symposium, Wilmington, DE, June 3, 2002

Honors/Special Recognition

Recertification of American Board of Pediatrics Subboard of Pediatric Cardiology (for 2004 to 2010) No. 001327. April 30, 2002.

Professional Organizations

American Academy of Pediatrics, Fellow (F.A.A.P.)

JOUNI UITTO, M.D., PH.D.
Professor and Chair

Publications:

Nakano, A., Murrell, D., Rico, J., Lucky, A.W., Garzone, M., Stevens, C.A., Robertson, S., Pulkkinen, L., Pfindner, E., and Uitto, J.: Epidermolysis Bullosa with Congenital Pyloric Atresia: Novel Mutations in the β 4 Integrin Gene (ITGB4) and Genotype/Phenotype Correlations. *Ped. Res.* 49:618-626, 2001.

Bernstein, E.F., Kong, S., Brown, D.B., Kwak, B., Takeuchi, T., Gasparro, F.P., and Uitto, J.: The Nitroxide Tempol Affords Protection Against Ultraviolet Radiation as Assayed Using a Transgenic Murine Fibroblast Culture Model of Cutaneous Photoaging. *Exp. Derm.* 10:55-61, 2001.

Gras, M.P., Verrecchia, F., Uitto, J., and Mauviel, A.: Downregulation of the Human Type VII Collagen (COL7A1) Promoter Activity by Dexamethasone. Identification of a Glucocorticoid Receptor Binding Region. *Exp. Derm.* 10:28-34, 2001.

Pfindner, E., Uitto, J., and Fine, J-D.: Epidermolysis Bullosa Carrier Frequencies in the US Population. *J. Invest. Dermatol.* 116:483-484, 2001.

Kouba, D.J., Nakano, H., Nishiyama, T., Kang, J., Uitto, J., and Mauviel, A.: Tumor Necrosis Factor- α Induces Distinctive NF- κ B Signaling within Human Dermal Fibroblast. *J. Biol. Chem.* 276:6214-6224, 2001.

Nakano, A., Nomura, K., Nakano, H., Ono, Y., La Forgia, S., Pulkkinen, L., Hashimoto, I., and Uitto, J.: Papillon-Lefèvre Syndrome: Mutations and Polymorphisms in the Cathepsin C Gene. *J. Invest. Dermatol.* 116:339-343, 2001.

Ringpfeil, F., Raus, A., DiGiovanna, J.J., Korge, B., Harth, W., Mazzanti, C., Uitto, J., Bale, S.J., Richard, G.: Darier Disease – Novel Mutations in ATP2A2 and Genotype-Phenotype Correlations. *Exp. Derm.* 10:19-27, 2001.

Ringpfeil, F., Nakano, A., Uitto, J., and Pulkkinen, L.: Compound Heterozygosity for a Recurrent 16.5-kb Alu-Mediated Deletion Mutation and Single-Base-Pair Substitutions in the *ABCC6* Gene Results in Pseudoxanthoma Elasticum. *Am. J. Hum. Genet.* 68:642-652, 2001.

Verrecchia, F., Vindevoghel, L., Lechleider, R.J., Uitto, J., Roberts, A.B., and Mauviel, A.: Smad3/AP-1 Interactions Control Transcriptional Responses to TGF- β in a Promoter-Specific Manner. *Oncogene* 20:3332-3340, 2001.

Sprecher, E., Chavanas, S., DiGiovanna, J.J., Amin, S., Nielsen, K., Prendiville, J.S., Silverman, R., Esterly, N.B., Spraker, M.K., Guelig, E., de Luna, M.L., Williams, M.L., Buehler, B., Pfindner, E., Bale, S.J., Uitto, J., Hovnanian, A., and Richard, G.: The

Spectrum of Pathogenic Mutations in SPINK 5 in 19 Families with Netherton Syndrome: Implications for Mutation Detection and First Case of Prenatal Diagnosis. J. Invest. Dermatol. 117:179-187, 2001.

Klausegger, A., Pulkkinen, L., Pohla-Gubo, G., Dallinger, G., Puttinger, R., Uitto, J., Hintner, H., Bauer, J.W.: Is Screening of the Candidate Gene Necessary in Unrelated Partners of Members of Families with Herlitz Junctional Epidermolysis Bullosa? J. Invest. Dermatol. 116:474-475, 2001.

Bauer, J.W., Rouan, F., Kofler, B., Rezniczek, G.A., Kornacker, I., Muss, W., Hametner, R., Klausegger, A., Huber, A., Pohla-Gubo, G., Wiche, G., Uitto, J., and Hintner, H.: A Compound Heterozygous One Amino-Acid Insertion/Nonsense Mutation in the Plectin Gene Causes Epidermolysis Bullosa Simplex with Plectin Deficiency. Am. J. Path. 158:617-625, 2001.

Nakano, H., Gasparro, F.P., and Uitto, J.: UVA-340, Mimicking Natural Sunlight, Activates the Transcription Factor AP-1 in Cultured Fibroblasts: Evidence for Involvement of Protein Kinase-C. Photochem. Photobiol. 74:274-281, 2001.

Simpson, A., Uitto, J., Rodeck, U., and Mahoney, M.: Differential Expression and Subcellular Distribution of the Mouse Metastasis-Associated Proteins Mta1 and Mta3. Gene 273:29-39, 2001.

Rouan, F., White, T.W., Brown, N., Taylor, A.M., Lucke, T.W., Paul, D.L., Munro, C., Uitto, J., Hodgins, M.B., and Richard, G.: Trans-Dominant Inhibition of Connexin-43 by Mutant Connexin-26: Implications for Dominant Connexin Disorders Affecting Epidermal Differentiation. J. Cell Sci. 114:2105-2113, 2001.

Brown, D.B., Peritz, A.E., Uitto, J., and Gasparro, F.: Ultraviolet-Filtering Properties of Commonly Used Tissue Cell Culture Plasticware. Photodermatol. Photoimmunol. Photomed. 17:126-129, 2001.

Pulkkinen, L., Nakano, A., Ringpfeil, F., and Uitto, J.: Identification of ABCC6 Pseudogenes on Human Chromosome 16p: Implications for Mutation Detection in Pseudoxanthoma Elasticum. Hum. Genet. 109:356-365, 2001.

Montonen, O., Aho, M., Uitto, J., and Aho, S.: Tissue Distribution and Cell Type-Specific Expression of p120ctn Isoforms. J. Histochem. Cytochem. 49:1487-1496, 2001.

Ning, C.C., Chao, S.C., Uitto, J., Shieh, C.C., and Lee, J.Y.: Mutation Analysis in the Family of a Taiwanese Boy with Epidermolysis Bullosa Simplex Dowling-Meara. J. Formos. Med. Assoc. 100:407-411, 2001.

Nakano, A., Lestringant, G.G., Paperna, T., Bergman, R., Gershoni, R., Frossard, P., Kanaan, M., Meneguzzi, G., Richard, G., Pfindner, E., Uitto, J., Pulkkinen, L., and Sprecher, E.: Junctional Epidermolysis Bullosa in the Middle East: Clinical and Genetic

Studies in a Series of Consanguineous Families. J. Am. Acad. Dermatol. 46:510-516, 2002.

Kazerounian, S., Uitto, J., and Aho, S.: Unique Role for the Periplakin Tail in Intermediate Filament Association: Specific Binding to Keratin 8 and Vimentin. Exp. Derm. (In press).

Nakano, A. Chao, S-C., Pulkkinen, L., Murrell, D., Bruckner-Tuderman, L., Pfindner, E., and Uitto, J.: Laminin 5 Mutations in Junctional Epidermolysis Bullosa: Molecular Basis of Herlitz vs. Non-Herlitz Phenotypes. Hum. Genet. 110:41-51, 2002.

Nakano, A., Nakano, H., Hanada, K., Nomura, K., and Uitto, J.: ZNT4 Gene is Not Responsible for Acrodermatitis Enteropathica in Japanese Families. Hum. Genet. 110:201-202, 2002.

Mahoney, M., Simpson, A., Jost, M., Noé, A., Kari, C., Pepe, K., Choi, Y.W., Uitto, J., and Rodeck, U.: Metastasis-associated Protein (MTA)1 Enhances Migration, Invasion, and Anchorage-independent Survival of Immortalized Human Keratinocytes. Oncogene (In press).

El-Domyati, M., Attia, S., Saleh, F., Brown, D., Birk, D.E., Gasparro, F., Ahmad, H., and Uitto, J.: Intrinsic Aging Versus Photoaging: A Comparative Histopathological, Immunohistochemical, and Ultrastructural Study of Skin. Exp. Derm. (In press).

Aho, S., Levänsuo, L., Montonen, O., Csaba, K., Rodeck, U., and Uitto, J.: Specific Sequences in p120ctn Determine Subcellular Distribution of its Multiple Isoforms Involved in Cellular Adhesion of Normal and Malignant Epithelial Cells. J. Cell Sci. (In press).

Mahoney, M.G., Simpson, A., Jost, M., Noé, M., Pepe, D., Choi, Y.W., Uitto, J., and Rodeck, U.: EGFR-Dependent, Anchorage-Independent Survival of Human Keratinocytes Requires Expression of the Metastasis-Associated Protein (MTA)1. Oncogene (In press).

Schröder, R., Kunz, W.S., Rouan, F., Pfindner, E., Tolksdorf, K., Kappes-Horn, K., Altenschmidt-Mehring, M., Knoblich, R., van der Ven, P.F.M., Reimann, J., Fürst, D.O., Blümcke, I., Vielhaber, S., Zillikens, D., Eming, S., Klockgether, T., Uitto, J., Wiche, G., Rolfs, A.: Disorganization of the Desmin Cytoskeleton and Mitochondrial Dysfunction in Plectin-Related Epidermolysis Bullosa Simplex with Muscular Dystrophy. J. Neuropath. Exp. Neurol. 61:520-530, 2002.

Whitlock, N.V., Wan, H., Morley, S.M., Garzon, M.C., Kristal, L., Hyde, P., McLean, W.H., Pulkkinen, L., Uitto, J., Christiano, A.M., Eady, R.A., McGrath, J.A.: Compound Heterozygosity for Non-Sense and Mis-Sense Mutations in Desmoplakin Underlies Skin Fragility/Woolly Hair Syndrome. J. Invest. Dermatol. 118:232-238, 2002.

Richard, G., Rouan, F., Willoughby, C.E., Brown, N., Chung, P., Ryyänen, M., Jabs, E.W., Bale, S.J., DiGiovanna, J.J., Uitto, J., and Russell, L.: Missense Mutations in *GJB2* Encoding Connexin-26 Cause the Ectodermal Dysplasia Keratitis-Ichthyosis-Deafness Syndrome. *Am. J. Hum. Genet.* 70:1341-1348, 2002.

Submitted Publications:

Smith, F.J.D., Fisher, M.P., Healy, E., Rees, J.L., McKusick, V.A., Bonifas, J.M., Epstein, E.H., Uitto, J., and McLean, W.H.I.: Cloning of Multiple Keratin 16 Genes: Genotype-Phenotype Correlation and Protein Expression Studies in Pachyonychia Congenita Type I and Focal Palmoplantar Keratoderma.

Matsuzaki, Y., Katsuto, T., Kon, A., Sawamura, D., Uitto, J., and Hashimoto, I.: Analysis of Keratinocyte Responsive Element 3 Function: Keratinocyte-Specific Regulatory Sequence for the 230kD Bullous Pemphigoid Antigen Gene Promoter.

Nakano, H., Mauviel, A., Iozzo, R., and Uitto, J.: Interferon- γ Counteracts the Transcriptional Upregulation of Type VII Collagen Gene Expression Elicited by Transforming Growth Factor- β . Evidence for Involvement of Stat-1 but not the Smad Pathway in Human Epidermal Keratinocytes.

Korang, K., Ghohestani, R., Krieg, T., Uitto, J., and Hunzelmann, N.: Exacerbation of Pemphigus Foliaceus after Tetanus Vaccination Accompanied by Auto-Antibodies Formation Against Paraneoplastic Pemphigus Antigens.

Ryoo, Y.W., Li, K., Aho, S., Cho, R., Klement, J., and Uitto, J.: Cloning and Targeting of the Mouse Periplakin Gene.

Kaithamana, S., Fan, J-L., Memar, O., Li, K., Uitto, J., and Prabhakar, B.: Relevance of Differential Immunogenicity of Human and Mouse Recombinant Desmoglein-3 for the Induction of Pathogenic Autoantibodies in Mice.

Pulkkinen, L., Choi, Y.W., Simpson, A., Montagutelli, X., Sundberg, J., Uitto, J., and Mahoney, M.: Mechanism for Loss of Cell Adhesion in *Dsg3*^{bal-Pas} Mice with Homozygous Deletion Mutation (2079del14) in the Desmoglein 3 Gene.

El-Domyati, M.B., Attia, S., Saleh, F., Galaria, N., Ahmad, H., Gasparro, F.P., and Uitto, J.: Expression of p53 in Normal Sun-Exposed and Protected Egyptian Skin in Different Decades of Age.

Hata, D., Miyazaki, M., Seto, S., Furusho, K., Kadota, E., Nakano, A., Tamai, K., Uitto, J., Moriyama, K., and Miyazaki, K.: Nephrotic Syndrome and Aberrant Expression of Laminin Isoforms in Glomerular Basement Membranes in an Infant with Herlitz Junctional Epidermolysis Bullosa.

Sprecher, E., Itin, P., Whittock, N., McGrath, J., Meyer, R., DiGiovanna, J.J., Bale, S.J., Uitto, J., and Richard, G.: Co-Localization of Dermatopathia Pigmentosa Reticularis and Naegeli-Franceschetti-Jadassohn Syndrome to a 4cM Interval on Chromosome 17q11.2-q21 and Investigation of 19 Candidate Genes.

Naso, M., Uitto, J., and Klement, J.: Transcriptional Control of Mouse *Col7a1* in Keratinocytes: Basal and TGF- β Regulated Expression.

Ciubotaru, D., Bergman, R., Baty, D., Indelman, M., Pfindner, E., Petronius, D., Moualem, H., Kanaan, M., Amitai, D.B., McLean, W.H.I., Uitto, J., and Sprecher, E.: Epidermolysis Bullosa Simplex in Israel: Clinical and Genetic Features.

Pulkkinen, L., Choi, Y.W., Joubeh, S., Wahl, J.K., Kljuic, A., Christiano, A.M., Uitto, J., Mahoney, M.G.: Novel Members of the Desmoglein Gene Family: Dsg1- β and Dsg1- γ .

Sprecher, E., Yossipovitch, G., Bergman, R., Ciubotaru, D., Indelman, M., Pfindner, E., Goh, L.C., Miller, C.J., Uitto, J., and Richard, G.: Epidermolytic Hyperkeratosis and Epidermolysis Bullosa Simplex Caused by Frameshift Mutations Altering the V2 Tail Domains of Keratin 1 and Keratin 5.

Chapters in Books and Review Articles:

Uitto, J., Pulkkinen, L., and Ringpfeil, F.: Molecular Genetics of Pseudoxanthoma Elasticum – A Metabolic Disorder at the Environment-Genome Interface? *Trends Mol. Med.* 7:13-17, 2001.

Uitto, J., and Pulkkinen, L.: Heritable Diseases Affecting the Elastic Tissues: Cutis Laxa, Pseudoxanthoma Elasticum and Related Disorders. In: *Emery & Rimoin's Principles and Practice of Medical Genetics*, (Rimoin, D.L., Connor, J.M., Pyeritz, R., Korf, B.R.), 4th Ed., Churchill Livingstone, New York, pp. 4044-4068, 2002.

Uitto, J.: Patient Advocacy Organizations Partner Genetic Research and Forge the Agenda. *TRENDS Mol. Med.* 7:182-183, 2001.

Uitto, J.: Elastic Fiber Abnormalities in Skin Disorders: What's New? (Editorial) *J. Eur. Acad. Dermatol. Venereol.* 15:303-304, 2001.

Ringpfeil, F., Pulkkinen, L., and Uitto, J.: Molecular Genetics of Pseudoxanthoma Elasticum. *Exp. Derm.* 10:221-228, 2001.

Uitto, J., and Pulkkinen, L.: Molecular Genetics of Heritable Blistering Disorders. *Arch. Derm.* 137:1458-1461, 2001.

Pulkkinen, L., Ringpfeil, F., and Uitto, J.: Progress in Heritable Skin Diseases: Molecular Bases and Clinical Implications. *J. Am. Acad. Dermatol.* 47:91-104, 2002.

Uitto, J.: Clinical Implications of Basic Research on Genodermatoses. Synopsis of the Guest Lecture at the 100th Anniversary Meeting of the Swedish Society of Dermatology. Forum for Nordic Dermato-Venereology 6:12-15, 2001.

Bruckner-Tuderman, L., and Uitto, J.: Progress in Molecular Dermatology (Guest Editorial). Acta. Derm. Venereol. 81:161-162, 2001.

Ghohestani, R., Li, K., Rousselle, P., and Uitto, J.: Molecular Organization of the Cutaneous Basement Membrane Zone. Clinics Derm. 19:551-562, 2001.

Uitto, J., Pulkkinen, L., and Ringpfeil, F.: Progress in Molecular Genetics of Heritable Skin Diseases: The Paradigms of EB and PXE. J. Invest. Dermatol. Symp. Proc. (In press).

Uitto, J.: Searching for Clues for Premature Aging (Meeting Report). TRENDS Mol. Med. 8:155-157, 2002; Reprinted in TRENDS Endocr. Met. 13:140-141, 2002.

Uitto, J., Ringpfeil, F., and Pulkkinen, L.: Heritable Disorders of Connective Tissue – Ehlers-Danlos Syndrome, Pseudoxanthoma Elasticum and Cutis Laxa. In: Dermatology (Bologna, J.L., Jorizzo, J.L., and Rapini, R.P., eds.) Harcourt Publishers, London (In press).

Uitto, J.: Collagen and Elastin and Their Alterations in Acquired and Inherited Skin Diseases. In: Structure and Function of the Skin in Health and Disease (CRS203). The 60th Annual Meeting of the American Academy of Dermatology, New Orleans, February 22 & 23, 2002.

Uitto, J.: Disorders of the BMZ and Dermis: From EB to PXE. In: Clinical Disease and its Molecular Basis (CRS 110). The 60th Annual Meeting of the American Academy of Dermatology, New Orleans, February 22 & 23, 2002.

Uitto, J.: Molecular Pathology of Heritable Skin Diseases: In: 2002 Special Course-Advanced Molecular pathology, The 91st Annual Meeting, United States and Canadian Academy of Pathology, Chicago, Illinois, March 1, 2002, pp. 89-97.

Abstracts:

Uitto, J.: Genodermatoses: Targets for Cutaneous Gene Therapy. Abstract, the Berzelius Symposium, “Cutaneous Gene Therapy – Applications in Genodermatoses and Wound Healing”, Uppsala, Sweden, September 18-20, 2001. Acta Derm-Venereol. 81:230, 2001.

Simpson, A., Levin, D., Kazerounian, S., Uitto, J., Aho, S., and Mahoney, M.: Desmoglein 2 is a New Antigenic Target of Pemphigus Autoantibodies. J. Invest. Dermatol. 117:393, 2001.

Mahoney, M., Simpson, A., Aho, S., Pulkkinen, L., and Uitto, J.: Interspecies Conservation and Differential Expression of Mouse Desmoglein Gene Family. J. Invest. Dermatol. 117:393, 2001.

Montonen, O., Aho, M., Uitto, J., and Aho, S.: Tissue Distribution and Cell Type-Specific Expression of p120ctn Isoforms. J. Invest. Dermatol. 117:394, 2001.

Aho, S., Montonen, O., Levansuo, L., Rodeck, U., and Uitto, J.: p120ctn Isoforms Constitute a Protein Family with Diverse Functions. J. Invest. Dermatol. 117:395, 2001.

Kazerounian, S., Uitto, J., and Aho, S.: Periplakin Tail Domain Interacts with Intermediate Filament Proteins. J. Invest. Dermatol. 117:406, 2001.

Ghohestani, R., Joubeh, S., Cacciapuoti, M., and Uitto, J.: IgG Auto-Antibodies to BP180 are Directly Pathogenic in Human Skin and Induce Sub-Epidermal Blisters: Evidence Using Skin Explant Culture and SCID Mouse Grafted with Human Skin. J. Invest. Dermatol. 117:461, 2001.

Zhang, G., Rotunda, S., Webster, G., Uitto, J., and Ghohestani, R.: The $\alpha 5$ and $\alpha 6$ Chains of Type IV Collagen are the Target of Autoantibodies in a Novel Autoimmune Disease Characterized by Subepidermal Blisters and Glomerulonephritis. J. Invest. Dermatol. 117:462, 2001.

Verrecchia, F., Vindevoghel, L., Lechleider, R., Roberts, A., Uitto, J., and Mauviel, A.: Smad3/AP-1 Interactions Control Transcriptional Responses to TGF- β in a Promoter-Specific Manner. J. Invest. Dermatol. 117:470, 2001.

Korang, K., Gasparro, F., Uitto, J., and Mauviel, A.: UVB Stimulates the COL7A1 Promoter via the NIK-IKK-NF- κ B Pathway Independent of the TNF- α Receptor. J. Invest. Dermatol. 117:494, 2001.

Nakano, H., Gasparro, F., and Uitto, J.: UVA-340 as an Energy Source, Mimicking Natural Sunlight, Activates the Transcription Factor AP-1 in Cultured Fibroblasts: Evidence for Involvement of Protein Kinase-C. J. Invest. Dermatol. 117:498, 2001.

Ahmad, H., Attiah, F., Saleh, D., Brown, D., Gasparro, F., Uitto, J., El-Domyati, M.: Intrinsic Aging vs. Photoaging: A Comparative Histopathologic, Histometric, and Immunohistochemical Study. J. Invest. Dermatol. 117:499, 2001.

Suh, D., Peritz, A., Brown, D., Uitto, J., and Gasparro, F.: Investigation of p53 Mutation Through the Analysis of Exons 2-11 in Squamous Cell Carcinoma from PUVA-treated Skin. J. Invest. Dermatol. 117:500, 2001.

Brown, D., Gasparro, F., and Uitto, J.: Activation of the Human Elastin Promoter by Ultraviolet Radiation can be Decreased through the Application of Antioxidants. J. Invest. Dermatol. 117:503, 2001.

Galaria, N., Ahmad, H., Uitto, J., and Gasparro, F.: Grading of p53 Protein Accumulation in Normal Sun-Exposed and Nonexposed Type IV Human Skin. J. Invest. Dermatol. 117:503, 2001.

Ringpfeil, F., Nakano, A., Uitto, J., and Pulkkinen, L.: Compound Heterozygosity for a Recurrent 16.5 kb Alu-Mediated Deletion Mutation and Single-Base Pair Substitutions in the ABCC6 Gene Results in Pseudoxanthoma Elasticum. J. Invest. Dermatol. 117:514, 2001.

Pulkkinen, L., Nakano, A., Ringpfeil, F., and Uitto, J.: Characterization of ABCC6 Pseudogenes on Human Chromosome 16p: Implications for Mutation Detection in Pseudoxanthoma Elasticum. J. Invest. Dermatol. 117:515, 2001.

Pfendner, E., Nakano, A., Nielsen, K., Pulkkinen, L., Christiano, A., and Uitto, J.: 101 Prenatal Diagnoses by the DebRA Molecular Diagnostics Laboratory at Jefferson. J. Invest. Dermatol. 117:516, 2001.

Rouan, F., Jost, M., Rodeck, U., Lo, C., Uitto, J., and Richard, G.: Consequences of Dominant GJB3 Mutations on Gap Junction Communication in HeLa Cells. J. Invest. Dermatol. 117:518, 2001.

Richard, G., Butt, K., Brown, N., Rouan, F., DiGiovanna, J., Bale, S., and Uitto, J.: Mutations in the Connexin Gene *GJB4* (Cx30.3) Cause Erythrokeratoderma Variabilis (EKV). J. Invest. Dermatol. 117:518, 2001.

Nakano, A., Nomura, K., Nakano, H., Ono, Y., LaForgia, S., Pulkkinen, L., Hashimoto, I., and Uitto, J.: Papillon-Lefevre Syndrome: Mutations and Polymorphisms in the Cathepsin C Gene. J. Invest. Dermatol. 117:519, 2001.

Naso, M., Uitto, J., and Klement, J.: Transcriptional Regulation of Mouse Col7a1 Gene in Keratinocytes. J. Invest. Dermatol. 117:522, 2001.

Lin, M., and Uitto, J.: The Gene Peel: Gene Gun Delivery of the Diphtheria Toxin Fragment A (DTA) Gene to Mouse Skin Produces Epidermal Blister. J. Invest. Dermatol. 117:530, 2001.

Zhang, G., Uitto, J., and Ghohestani, R.: Development of an Active Mouse Model of Pemphigus Vulgaris, a Life Threatening Skin Disease, by DNA Immunization. J. Invest. Dermatol. 117:767, 2001.

Uitto, J., Meng, X., Klement, J., and Pulkkinen, L.: Targeted Ablation of the Murine LAMC2 Gene Recapitulates Human Herlitz Junctional Epidermolysis Bullosa Phenotype. J. Invest. Dermatol. 117:1680, 2001.

Uitto, J.: Genodermatoses: Targets for Cutaneous Gene Therapy. Acta. Derm. Venereol. 81:230, 2001.

Uitto, J.: Hutchinson-Gilford Progeria Syndrome: Clues from the Skin. Abstracts of the Hutchinson-Gilford Progeria Workshop, National Institutes of Health, Bethesda, Maryland, November 28 & 29, 2001.

Uitto, J.: Current Research on Epidermolysis Bullosa and Future Prospects of Gene Therapy. Abstracts of The First Scandinavian Conference on Epidermolysis Bullosa. Acta. Derm. Venereol. (In press).

Mahoney, M., Simpson, A., Jost, M., Noe, M., Kari, C., Pepe, Y., Choi, Y., Uitto, J., and Rodeck, U.: Metastasis-Associated Protein 1 Enhances Migration, Invasion, and Anchorage-Independent Survival of Immortalized Human Keratinocytes. J. Invest. Dermatol. 119:215, 2002.

Choi, Y., Pulkkinen, L., Simpson, A., Montagutelli, X., Sundberg, J., Uitto, J., and Mahoney, M.: Loss of Cell Adhesion in Dsgba1-Pas Mice with Homozygous Deletion Mutation (2079del14) in the Desmoglein 3 Gene. J. Invest. Dermatol. 119:226, 2002.

Meng, X., Klement, J., Uitto, J., and Pulkkinen, L.: Targeted Ablation of the Murine LAMC2 Gene Recapitulates Human Herlitz Junctional Epidermolysis Bullosa Phenotype. J. Invest. Dermatol. 119:227, 2002.

Aho, S., Pajunen, T., Kazerounian, S., and Uitto, J.: p120ctn Isoforms in Epithelial Cell Biology. J. Invest. Dermatol. 119:229, 2002.

Richard, G., Rouan, F., Willoughby, C., Brown, N., Amin, S., Chung, P., Ryyanen, M., Jabs, E., Bale, S., DiGiovanna, J., Uitto, J., and Russell, L.: Keratitis-Ichthyosis-Deafness Syndrome is Caused by Dominant Missense Mutations in GJB2 Encoding Connexin-26. J. Invest. Dermatol. 119:263, 2002.

Matsuzaki, Y., Li, K., Nakano, A., Aho, S., Pulkkinen, L., and Uitto, J.: Tissue-Specific Expression and Transcriptional Modulation of Human ABCC6, the Gene Mutated in Pseudoxanthoma Elasticum. J. Invest. Dermatol. 119:264, 2002.

Ringpfeil, F., Pfendner, E., Saxena, A., Nakano, A., and Uitto, J.: Pseudoxanthoma Elasticum: Improved Mutation Detection Strategy with dHPLC. J. Invest. Dermatol. 119:271, 2002.

Barria, M., Uitto, J., and Ghohestani, R.F.: Development of an Active Mouse Model of Pemphigus Vulgaris by DNA Immunization. J. Invest. Dermatol. 119:321, 2002.

ONGOING RESEARCH SUPPORT:

RO1 AR41439 – 23 UITTO (PI)

04/04/02-03/31/07

NIH/NIAMS

Collagen Biosynthesis by Cultured Fibroblasts

The specific aims are identification of regulatory mechanisms of collagen gene expression in human skin fibroblast cultures; elucidation of mechanisms leading to collagen accumulation in fibrotic skin diseases; and development of treatment modalities for fibrotic skin diseases.

PO1 AR38923 - 16 UITTO (PI)

04/01/02-03/31/07

NIH/NIAMS

Molecular Genetics of Skin Basement Membrane Zone

This program project grant is for elucidation of molecular defects in the cutaneous basement membrane zone in epidermolysis bullosa, a group of genetic blistering diseases.

RO1 AR28450 - 19 UITTO (PI)

08/01/00 - 6/30/05

NIH/NIAMS

Biochemistry and Morphology of Connective Tissue

This project is designed to elucidate elastin abnormalities in cutaneous diseases. The specific aims include development of transgenic mice with elastin abnormalities and elucidation of the transcriptional control of elastin gene expression.

DebRA of America, Inc.

01/01/01 - 12/31/02

DebRA Molecular Diagnostics Laboratory

The aims of this project are: to establish a diagnostics laboratory with appropriate leadership, management, and support personnel; to implement molecular diagnostic tests for mutation detection using state-of-the-art technologies; to develop mutation detection strategies applicable to variants of EB; to continue monitoring the quality of the laboratory tests.

Awards and Honors:

Member of the Organizing Committee and Speaker, 50th Annual Montagna Symposium on the Biology of Skin, “Progress in Cutaneous Biology and Investigative Dermatology”, Snowmass, Colorado, July 27-31, 2001.

Speaker, Berzelius Symposium 57, "Cutaneous Gene Therapy – Applications in Genodermatoses and Wound Healing", The Swedish Society of Medicine, Uppsala, Sweden, September 18-20, 2001.

Recipient, The Honorary 100th Year Celebration Medal of the Swedish Society of Medicine, Uppsala, Sweden, September 18, 2001.

Member of the Program Committee and Session Chair, 10th International Symposium on Basement Membranes, Salzburg, Austria, September 27-29, 2001.

The 10th Annual John M. Knox, M.D., Memorial Lectureship Award Recipient, Houston Dermatological Society, Baylor College of Medicine, Houston, Texas, October 27, 2001.

Member, Dermatology Branch Site Visit Committee, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, November 14 & 15, 2001.

Member, Extramural Roundtable on Skin, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, Maryland, January 30, 2002.

External Examiner, M.D. Thesis of Hesham M. Ahmed, El-Minya University, El-Minya, Egypt, May 7, 2002.

Delegate, International League of Dermatological Societies, 20th Congress of Dermatology, Paris, France, July 1-5, 2002.

Visiting Professorships, and Invited Lecturer:

Invited Speaker, Gordon Research Conference on Collagen, Colby-Sawyer College, New London, New Hampshire, July 29-August 3, 2001.

Invited Speaker, 31st Annual Meeting of the European Society for Dermatological Research, Stockholm, Sweden, September 20-22, 2001.

Invited Speaker, Avon Research Day, University of Pennsylvania, Philadelphia, Pennsylvania, October 24, 2001.

Invited Speaker, Center for Cutaneous Molecular Biology, Departments of Molecular and Cellular Biology and Dermatology, Baylor College of Medicine, Houston, Texas, October 26, 2001.

Invited Speaker, Dermatology Foundation Symposium at Unilever Skin Research, Edgewater, New Jersey, November 1 - 2, 2001.

Invited Speaker, Symposium on Bullous Diseases: What is New?, Department of Dermatology, Heinrich-Heine-University, Düsseldorf, Germany, November 17, 2001.

Invited Speaker, Joint Workshop on Hutchinson-Gilford Progeria Syndrome, National Institutes of Health & The Progeria Research Foundation, Bethesda, Maryland, November 28 & 29, 2001.

Invited Speaker, Department of Dermatology, University of California Irvine, California, December 17, 2001.

Quest Lecturer, The National Skin Center, Singapore, December 28, 2001.

Howard Fox Guest Lecturer, The Ronald O. Perleman Department of Dermatology, New York University School of Medicine, New York City, New York, February 1, 2002.

Invited Speaker, 2002 Special Course – Advanced Molecular Pathology, The 91st Annual Meeting of the United States and Canadian Academy of Pathology, Chicago, Illinois, March 1, 2002.

Invited Speaker, The First Scandinavian Conference on Epidermolysis Bullosa, Oslo, Norway, April 21-23, 2002.

Guest Speaker, The Biomedicum, University of Helsinki School of Medicine, Helsinki, Finland, April 24, 2002.

Invited Speaker, Symposium: Skin as a Mirror of General Health, Al-Minya University Hospital, Al-Minya University, Al-Minya, Egypt, May 8, 2002.

Invited Speaker, International Meeting on Bullous Diseases, Institut Wenckebach, Groningen, The Netherlands, June 28 & 29, 2002.

Invited Speaker and Session Chair, 20th World Congress of Dermatology, Paris, France, July 1-5, 2002.

Invited Speaker, PXE 2002 International Conference, "Advances in Research, Striving for Treatment", organized by PXE International, Oakland, California, July 12-14, 2002.

Offices Held in Scientific and Professional Societies:

Associate Editor, The Journal of Investigative Dermatology, July 1, 1987 - present.

Member, Executive Committee, Section of Dermatology, The College of Physicians, Philadelphia, Pennsylvania, April 18, 1988 - present.

Member, Executive Committee, Dermatology Foundation, September 1, 1988 - present.

Member, Board of Directors, National Association for Pseudoxanthoma Elasticum, December 15, 1988 - present.

Consultant, Skin Phototrauma Foundation, Parsippany, New Jersey, June 12, 1990 - present.

Chairman, NIH Advisory Committee, The Society for Investigative Dermatology May 3, 1990 - present.

Member of the Board of Trustees, Dystrophic Epidermolysis Bullosa Research Association of America, August 15, 1992 - present.

Member, Advisory Board of the International Society of Cosmetic Dermatology, February 5, 1996-present.

Member, Executive Scientific Committee, Vitiligo International Council, Milano, Italy, January 1, 1998 - present.

Member, Executive Committee, Philadelphia Dermatological Society, Philadelphia, Pennsylvania, July 1, 1997 - present.

Vice-President, December 3, 1988 – March 18, 1999, and President, Dermatology Foundation, March 19, 1999 – present.

President-Elect, May 14, 2000 – May 10, 2001; President, May 11, 2001 – May 19, 2002; and Immediate Past President, May 20, 2002 – present, The Society for Investigative Dermatology.

Deputy Chair, Committee on Research, The American Academy of Dermatology, February 24, 2002 – present.

Council Member, International Society for Matrix Biology, May 1, 2002 – present.

Society Memberships:

Society for Investigative Dermatology, 1972 - present.

European Society for Dermatological Research, 1974 - present.

American Federation for Clinical Research, 1976 - present.

American Academy of Dermatology, 1978 - present.

American Society for Biological Chemists, 1978 - present.

Western Society for Clinical Research, 1980 - present.

American Society for Clinical Investigation, 1980 - present.

Dystrophic Epidermolysis Bullosa Research Association of America, 1983 - present.

American Association for the Advancement of Science, 1983 - present.

Dermatology Foundation, 1983 - present.

Western Association of Physicians, 1985 - present.

The College of Physicians of Philadelphia, 1987 - present.

Association of Professors in Dermatology, 1987 - present.

American Dermatological Association, 1989 - present.
Association of American Physicians, 1989 - present.
Pennsylvania Academy of Dermatology, 1989 - present.
American Society of Human Genetics, 1990 - present.
International Society for Matrix Biology, 1995 - present.

Editorial Services/Manuscript Referee:

Acta Dermato-Venerologica (Advisory Board Member)
American Journal of Pathology
Annals of Internal Medicine
Annals of Neurology
Archives of Dermatology
Arthritis and Rheumatism
Biochemistry
The British Journal of Dermatology
Cancer Research
Cell
Cell Death and Differentiation (Editorial Board Member)
Connective Tissue Research
Cosmetic Dermatology (Editorial Board Member)
European Journal of Dermatology (Scientific Board Member)
Experimental Cell Research
Experimental Dermatology (Advisory Board Member)
Experimental and Molecular Pathology
Human Mutation
International Journal of Dermatology
Journal of the American Academy of Dermatology
Journal of Biological Chemistry
Journal of Cell Biology
Journal of Cellular Physiology
Journal of Clinical Investigation (Consulting Editor)
Journal of Dermatology (International Advisory Board Member)
Journal of the European Academy of Dermatology and Venereology (Editorial Board Member)
Journal of Geriatric Dermatology (Editorial Board Member)
Journal of Investigative Dermatology (Section Editor)
Laboratory Investigation
Matrix/Collagen and Related Research
Molecular Medicine Today (Advisory Editorial Board Member)
Nature
Nature Genetics
New England Journal of Medicine
Pediatric Research
Photochemistry and Photobiology
Proceedings of the National Academy of Sciences, U.S.A.

Southern Medical Journal
Wounds (Editorial Board Member)

Vesna Petronic-Rosic, MD, MSc

3rd Year Resident, Department of Dermatology and Cutaneous Biology

Publications:

Petronic-Rosic V. O Case Report, Where Art Thou? Skinmed: 2002 (accepted for publication).

Ackerman AB, Mones J, Petronic-Rosic V. Resolving Quandaries in Dermatology, Pathology and Dermatopathology, 2nd edition. Ardor Scribendi, New York, 2001.

Participation in Scientific/Clinical Meetings and Presentations:

Contemporary Dermatology. Lecture by invitation. Clinic of Skin And Venereal Diseases, Military Medical Academy, Belgrade, Serbia, July 2001.

Professional Organizations:

American Academy of Dermatology
Serbian Physicians Society

KENNETH WASSERMAN, M.D.
Instructor of Dermatology and Cutaneous Biology

Appointments:

Thomas Jefferson University Hospital - Adjunct Instructor/Associate with admitting privileges. Chairman of the American Academy of Dermatology's Major League Baseball Skin Cancer Program: Play Smart When It comes To The Sun. 2000 - present.

Advisory Counsel Representative to the American Academy of Dermatology representing the Philadelphia Dermatologic Society, 1992-present

Executive Committee-Pennsylvania Academy of Dermatology, 1994-present

Co-Chairman, Economics Committee-Pennsylvania Academy of Dermatology, 1995-present

Member, Standards of Care Committee-Pennsylvania Academy of Dermatology, 2000-present

Honors/Special Recognitions:

American Academy of Dermatology, 2001 Presidential Citation for initiating Skin Cancer Screening Program with Major League Baseball

Media:

Radio interviews, both local and national for AAD Play it Smart in the Sun Skin Cancer Screening Program

Comcast Cable Show Seeking Solutions with Suzanne

Membership in Professional Organizations:

American Academy of Dermatology
American Medical Association
Pennsylvania Medical Society
Pennsylvania Academy of Dermatology
Philadelphia Dermatologic Society
Philadelphia County Medical Society

Meetings Attended:

Monthly Philadelphia Dermatological Society Meetings

American Academy of Dermatology, Summer Session, New York, August 2002
American Academy of Dermatology, New Orleans, March 2002
American Academy of Dermatology, Summer Session, Anaheim, July 2001
American Academy of Dermatology, Washington, March 2001
American Academy of Dermatology, Summer Session, Nashville, August 2000
American Academy of Dermatology, San Francisco, March 2000
American Academy of Dermatology, Summer Session, New York, July 1999
American Academy of Dermatology, New Orleans, 1999
American Academy of Dermatology, Summer Session, Chicago, July 1998
American Academy of Dermatology, San Francisco, March 1998
American Academy of Dermatology, Summer Session, New York, July 1997

GUY WEBSTER, M.D., Ph.D.
Professor and Vice Chair
Department of Dermatology and Cutaneous Biology

Publications:

S. Sundarma, G.F. Webster. Chronic edema is the most common cutaneous manifestation of reflex sympathetic dystrophy. *J. Am. Acad. Derm.* 44:1050-1051, 2001

N. Soter, A. Fleisher, G.F. Webster, et al. Tacrolimus ointment for the treatment of atopic dermatitis in adult patients: Part II, Safety. *J. Am. Acad. Derm.* 44:S39-S46, 2001.

G.F. Webster, D. Berson, D. Fivenson, E. Tanghetti. Efficacy and tolerability of once daily tazarotene compared with tretinoin gel in the treatment of acne vulgaris. *Cutis* 67:4-9, 2001

G.F. Webster. Combination azelaic acid therapy for acne vulgaris. *JAAD*, 43:s47-50, 2000.

G.F. Webster. Are porokeratoses an infection? *Arch. Dermatol.* 137:554, 2001.

A. Park, G.F. Webster, I.R.Raber. Porphyria cutanea tarda presenting as a cicatrizing conjunctivitis. *Am. J. Ophthalmology*, in press, 2002.

D. Dehoratius, G.F. Webster. Treatment of follicular mucinosis with tacrolimus. *J. Am. Acad. Derm.* 2002 (manuscript submitted).

S. Stoll, A.R. Shalita, G.F. Webster, R. Kaplan, S. Danesh, A. Perlstein. The effect of the menstrual cycle on acne. *J. Am. Acad. Derm.* 45:957-960, 2001.

G.F. Webster, D. Bersin, L.F. Stein. Efficacy and tolerability of once daily tazarotene gel vs. once daily

KYONGGEUN YOON, PH.D

Associate Professor

Department of Dermatology and Cutaneous Biology

Publications:

1. Yang, S. Tutton, S. Pierce, E.A. and **Yoon, K** "Specific double-stranded RNA interference in undifferentiated mouse embryonic stem cells", *Mol. Cell. Biol.*, 21, 7807-7816, 2001
2. Pierce, E. A., Liu, Q., Ma, H.C. Igoucheva, O., Diamond, S. A. and **Yoon, K.** "Oligonucleotide-directed single base DNA alterations in mouse embryonic stem cells.", in press, *Gene Therapy*, 2002
3. Igoucheva, O., Alexeev, V. and **Yoon, K.** "Nuclear extracts promote gene correction and strand pairing of oligonucleotides to the homologous plasmid" in press, *Antisense and Nucleic Acid Drug Development*, 2002
4. Osyczka, A. M., Nöth, U., O'Connor, J., Caterson, E. J., **Yoon, K.**, Danielson, K.G. and Tuan R. S. "Multilineage Differentiation of Adult Human Bone Marrow Progenitor Cells Transduced with Human Papillomavirus-16 E6/E7 Genes", in press, *Calcified Research*, 2002
5. Alexeev, V. Igoucheva, O., and **Yoon, K.** "Simultaneous targeted alteration of the tyrosinase and c-kit genes by single-stranded oligonucleotides", in press, *Gene Therapy*, 2002

Patents:

Filed: New methods to generate transgenic animal with point mutations (12/02)

Grant Support:

Principal Investigator (Yoon) "Mechanism of RNA-DNA oligonucleotide" R21 GM61942 (2000-2002)

Principal Investigator (Yoon), "Localized site specific gene alteration in skin toward treatment of epidermolysis bullosa" DebRA foundation (2000-2002)

Principal Investigator (Yoon), Samsung Advanced Institute of Technology, Korea (2000-2002)

P01 AR 38923 (Program Director: Uitto, PI: Yoon) 12/1/96-11/30/01
NIH/NIAMS

Molecular Genetics of Skin Basement Membrane Zone

DAMD 17/98/2/9040 (PI: Klement, Co-PI: Yoon) 10/1/99-9/30/02

U.S. AMRMC

Characterization and potential treatment of blisters arising from sulfur mustard and EB using murine models

Participation in Scientific/Clinical Meetings and Presentations.

Invited Lectures:

National Heart Lung Blood Institute conference in gene targeting, NIH, Washington, D.C. October, 2001

Genome Medicine: Gene Therapy for the Millennium, Rome, Italy, October, 2001

American Society of Gene Therapy, Boston, June, 2002

Unilever presentation, June, 2002

University Committees:

Research Committee, Jefferson Medical College (1999-present)

Professional Organizations :

American Society of Biological Chemistry and Molecular Biology

American Association of Advanced Science

Society of Investigative Dermatology

NIH study section, member of the R21/RFA review group

NIH study section, ad hoc reviewer for Medical Biochemistry study section

Ad hoc reviewer for the DebRA Foundation grants