

## CURRICULUM VITAE

### CRAIG A. ELMETS

**Birth Date:** August 16, 1949

**Birthplace:** Des Moines, Iowa

**Married:** Laurie M. Elmetts (June 30, 1985)

**Children:** Joshua Philip (November 8, 1986)  
Michael William (January 17, 1989)  
David Benjamin (November 12, 1991)

**Citizenship:** United States

**Secondary Education:** Roosevelt High School, Des Moines, Iowa  
September, 1965 - June, 1967

**College:** The University of Iowa, Iowa City, Iowa  
September, 1967 - May, 1971  
Degree Conferred: B.A. in General Science

**Medical School:** The University of Iowa, Iowa City, Iowa  
September, 1971 - May, 1975  
Degree Conferred: M.D.

**Internship:** The University of Kansas Medical Center  
Kansas City, Kansas  
Straight Medicine  
June, 1975 - June, 1976

**Residencies:** The University of Kansas Medical Center  
Kansas City, Kansas  
Internal Medicine  
July, 1976 - June, 1978

University of Iowa Hospitals  
Iowa City, Iowa  
Dermatology  
July, 1978 - June, 1980

**Fellowship:** The University of Texas Health Science Center  
Dallas, Texas

Immunodermatology  
July, 1980 - June, 1982

**Sabbatical:**

Laboratory of Dr. Mark Tykocinski  
Department of Pathology  
Case Western Reserve University  
August, 1993 - July, 1994

**Academic Positions:**

Professor and Chairman  
Department of Dermatology  
University of Alabama at Birmingham  
School of Medicine,  
Birmingham, Alabama  
September, 1997 – present

Professor of Pathology  
University of Alabama at Birmingham  
School of Medicine,  
Birmingham, Alabama  
1999 – present

Professor of Environmental Health Sciences  
University of Alabama at Birmingham  
School of Medicine,  
Birmingham, Alabama  
2000 – present

Director, NIH Sponsored UAB Skin Diseases Research Center  
University of Alabama at Birmingham  
Birmingham, Alabama  
August, 2004 – present

Director, Chemoprevention Program  
UAB Comprehensive Cancer Center  
University of Alabama at Birmingham  
Birmingham, Alabama  
2006 – present

Adjunct Professor of Dermatology  
Case Western Reserve University  
School of Medicine,  
Cleveland, Ohio  
September, 1997 - present

Professor of Dermatology

Case Western Reserve University  
School of Medicine,  
Cleveland, Ohio  
July, 1994 - September, 1997

Professor of General Medical Sciences (Oncology)  
Case Western Reserve University  
School of Medicine  
Cleveland, Ohio  
July, 1994 - September, 1997

Director, NIH Sponsored Skin Diseases Research Center of  
Northeast Ohio  
Case Western Reserve University School of Medicine  
Cleveland, Ohio  
January, 1994 - September, 1997

Associate Professor of Environmental Health Sciences  
Case Western Reserve University  
School of Medicine  
Cleveland, Ohio  
July, 1991 - September, 1997

Associate Professor of Dermatology  
Case Western Reserve University  
School of Medicine  
Cleveland, Ohio  
July, 1988 - June, 1994

Associate Professor of General Medical Sciences (Oncology)  
Case Western Reserve University  
School of Medicine  
Cleveland, Ohio  
July, 1988 - June, 1994

Assistant Professor of General Medical Sciences (Oncology)  
Case Western Reserve University  
School of Medicine  
Cleveland, Ohio  
April, 1987 - June, 1988

Assistant Professor of Dermatology  
Case Western Reserve University  
School of Medicine,  
Cleveland, Ohio  
August, 1982 - June, 1988

**Hospital Positions:**

Director, Dermatology Service  
The Kirklin Clinic  
University of Alabama at Birmingham  
Birmingham, Alabama  
September, 1997 – present

Director, Dermatology Service  
Children's Hospital  
Birmingham, Alabama  
1999 – 2001

Attending Dermatologist  
Birmingham Veterans Administration Hospital  
Birmingham, Alabama  
September, 1997 – present

Director, Photodermatology Service  
University Hospitals of Cleveland  
Cleveland, Ohio  
July, 1994 - September, 1997

Attending Dermatologist  
Cleveland Veterans Administration Hospital  
Cleveland, Ohio  
July, 1990 - September, 1997

Director, Immunodermatology/Immunodeficiency Service  
University Hospitals of Cleveland  
Cleveland, Ohio  
July, 1987 - September, 1997

Attending Dermatologist  
University Hospitals of Cleveland  
Cleveland, Ohio  
August, 1982 - September, 1997

**Medical Licensure:**

Iowa, Kansas, Ohio, Alabama

**Medical Organizations:**

Member, American College of Physicians

Member, Society of Investigative Dermatology  
Midwest Chairman, 1986 - 1989  
Membership Committee, 1991 - 1994  
(Chairman 1993 - 1994)

Fellow, American Academy of Dermatology  
Committee on Occupational Dermatology,  
1990 - 1995  
Committee on Scientific and Poster Exhibits, 1991 - 1998  
(Chairman 1995 - 1998)  
Task Force on On-Site Meeting for Recertification  
Education, 1994 - 1996  
EPA/NIEHS Liaison Committee, 1994 – 1999  
Research Council, 1997 – 2006  
EPA/NIEHS Task Force, (Chairman 2001-2006)  
Guidelines Task Force (2003-2007)  
Scientific Assembly Committee (2004-2009;  
Chairman, 2008-2009)  
Summer Meeting Task Force (2004-2006)  
PsoriasisNet Work Group (2006-2008)  
Psoriasis Guidelines Taskforce (2007-present)

Member, American Society for Dermatologic Surgery

Member, American Dermatological Association

Member, American Medical Association

Member, Jefferson County (Alabama) Medical Society

Member, Medical Association for the State of Alabama

Member, American Association of Immunologists

Member, American Society of Photobiology  
Governing Council, 1997 – 2000

Member, American Association for the Advancement of Sciences

Member, Alabama Dermatology Society

Member, Medical Dermatology Society

Member, American Contact Dermatitis Society

Member, Photomedicine Society  
Board of Directors (2004-present)

**Editorial Boards:**

Editorial Board, Photodermatology Photoimmunology  
and Photomedicine, 1990 - present

Section Editor, Experimental Dermatology, 1991 - 2005

Associate Editor, Photochemistry and Photobiology,  
1994 - 1997

Associate Editor, The Journal of Immunology,  
1995 - 2001

Editorial Board, Journal of Investigative Dermatology,  
1996 – 1997

Editorial Board, eMedicine Online (Dermatology),  
1998 – present

Editorial Board, Journal Watch in Dermatology,  
2006 – present

Editorial Board, Journal of the American Academy of  
Dermatology, 2008 – present

Editorial Board, Cancer Prevention Research  
2009-present

Editorial Board, Journal of Dermatological Sciences  
2010-present

**Other Activities:**

Edison Biotechnology Center Technical Advisory Board, 1991 -  
1997

Diabetes Association of Greater Cleveland  
Research Review Committee, 1991 - 1996

Research Advisory Panel  
Rainbow Babies and Children's Hospital  
Cleveland, Ohio, 1990 - 1996

Case Western Reserve University Faculty Council,  
1990 - 1992

NIH Skin Diseases Research Center of Northeast Ohio  
Pilot and Feasibility Project Chairman, 1988 - 1993  
Enrichment Program Chairman, 1991 - 1993  
Director, 1994 - 1997

Co-Director, Photocarcinogenesis: Mechanisms, Models and  
Human Health Implications, Washington, D.C., 1995

NIH Chemical Pathology Study Section, 1996 – 2000

University of Alabama Health Sciences Foundation Advisory Board, 1997 – present

National Association of Veterans Administration Dermatologists Board of Directors, 1999 – 2005

VA Merit Review Subcommittee for Oncology  
2002-2005

Dermatology Foundation Medical and Scientific Committee  
2002-2004

Visiting Allocation Team  
United Way of Central Alabama, Inc.  
2003

American Board of Dermatology  
Test Writing Committee  
2006-2008

**Fellows Trained:**

Jean Krutmann, M.D.

Dates: November, 1985 - December, 1987  
Current Position: Director, Institute for Environmental  
Medicine  
Heinrich Heine University  
Düsseldorf, Germany

Mohammed Athar, Ph.D.

Dates: July, 1986 - December, 1989  
Former Positions: Professor and Dean of Toxicology  
Hamdard University  
Delhi, India

Senior Research Scientist  
Department of Dermatology  
Columbia University  
New York, New York

Current Position: Professor  
Department of Dermatology  
University of Alabama at Birmingham  
Birmingham, Alabama

Michael Hertl, M.D.

Dates: March, 1988 - July, 1989  
Current Position: Professor and Chairman  
Department of Dermatology and  
Allergology  
University of Marburg  
Marburg, Germany

M. Salmon Chowdury, Ph.D.

Dates: January, 1989 - June, 1989  
Current Position: Unknown

Islam U. Khan, Ph.D.

Dates: September, 1987 - April, 1990  
Current Position: Research Assistant Professor  
Department of Medicine (Rheumatology)  
Wake Forest University School of  
Medicine  
Winston-Salem, North Carolina

Keith D. Boehm, Ph.D.

Dates: September, 1990 - July, 1992  
Current Position: Unknown

Uwe Trefzer, M.D.

Dates: March, 1992 - August, 1994  
Current Position: Assistant Professor of Dermatology  
Department of Dermatology  
Charité Hospital  
Berlin, Germany

Andreas Häffner, M.D.

Dates: May, 1993 - December, 1994  
Current Position: Assistant Professor of Rheumatology  
Department of Medicine (Rheumatology)  
University of Zurich  
Zurich, Switzerland

Chief Technical Officer  
Medxchange  
Zurich, Switzerland

Karoline Zepter, M.D.

Dates: April, 1992 - August, 1995  
Current Position: Private Practice, Dermatology  
Zurich, Switzerland

Cathy Young-Anderson, D.V.M.

Dates: November, 1993 - March, 1997

Current Position: Private Practice of Veterinary Medicine  
Detroit, Michigan

Mitsuo Yamawaki, M.D.

Dates: September, 1995 – November, 1997

Former Position: Asst Professor of Dermatology,  
1997-2002  
Osaka, Japan

Current Position: Private Practice, Dermatology  
Osaka, Japan

Dinah Rothaupt, M.D.

Dates: November, 1996 – May, 1998

Current Position: Private Practice, Dermatology  
Germany

Bolli Bjarnason, M.D.

Dates: 1998-2001

Current Position: Clinical Assistant Professor  
Department of Dermatology  
Karolinska Institute  
Stockholm, Sweden

Nabiha Yusuf, Ph.D.

Dates: 2001-2005

Current Position: Assistant Professor  
Department of Dermatology  
Univ of Alabama at Birmingham

Tahseen Nasti, Ph.D.

Dates: 2006-present

Aton Holzer, M.D.

Dates: 2008-present

Kesha Buster, M.D.

Dates: 2009-present

**Thesis Advisor:**

Karoline Zepter

Degree: M.D.

Awarded by the University of Zurich, Switzerland  
February 1995

Kristen Freye  
M.S. in Environmental Sciences  
Case Western Reserve University  
Cleveland, Ohio  
January 1998

Rajagopal Krishnan  
Ph.D. in Physics  
University of Alabama at Birmingham  
Birmingham, Alabama  
May 2007

Ryan Splittgerber  
Ph.D. in Vision Sciences  
University of Alabama at Birmingham  
Birmingham, Alabama  
September 2008

**Certification:**

Diplomate, American Board of Internal Medicine, 1978

Diplomate, American Board of Dermatology, 1980

Certification of Special Qualification in Dermatological  
Immunology/Diagnostic and Laboratory Immunology, 1989

Recertification, American Board of Dermatology, 2009

**Honors:**

NIH Fellowship Trainee in Immunodermatology, 1980 - 1982

Recipient, Frederick E. Mohs Award of the Skin Cancer  
Foundation, 1987

Recipient, NIH Research Career Development Award, 1987 -  
1992

Listed in Who's Who in the Midwest, 1990 - 1998

Listed in Who's Who in Emerging Leaders in America, 1990 -  
1994

Listed in Who's Who in Medicine and Healthcare, 1996 - present

Listed in Who's Who in the World, 1998 – present

Listed in Who's Who in America, 1999 – present

Listed in Who's Who in the South and Southwest, 1999

Recipient University Hospitals of Cleveland, Department of Dermatology, Excellence in Teaching Award, 1990

Listed in Best Doctors in the United States, 1994 - present

Listed in Best Doctors in the Midwest, 1996

**Ad Hoc Reviewer:**

A. Granting Agencies

NIH General Medicine A2 Study Section

NIH Chemical Pathology Study Section

Israel-American Binational Agreement

Hong Kong Medical Grant Review Committee

B. Journals

Journal of Immunology

Journal of Clinical Investigation

Cancer Research

Journal of Investigative Dermatology

Photochemistry and Photobiology

Archives of Dermatology

Journal of the American Academy of Dermatology

Photodermatology, Photoimmunology and Photomedicine

Blood

In Vitro Toxicology

Skin Pharmacology

Journal of Leukocyte Biology

Journal of Photochemistry and Photobiology

Immunopharmacology

British Journal of Dermatology

Free Radical Biology and Medicine

Carcinogenesis

Archives of Biochemistry and Biophysics

Nature Medicine

American Journal of Contact Dermatitis

American Journal of Pathology

Clinical Cancer Research

Cancer Prevention Research

**Invited Speaker:**

International Congress for Photobiology, Philadelphia, PA, 1984

Wellman Laboratories for Photobiologic Research,  
Massachusetts General Hospital, Boston, MA, 1987

Department of Dermatology, University of Miami, Miami, 1987

Department of Dermatology, University of Texas Health  
Science Center at Houston, Texas, 1987

World Congress of Dermatology, Berlin, Germany, 1987

Florida Dermatological Society, Orlando, Florida, 1988

Department of Dermatology, University of Texas  
Southwestern Medical School, Dallas, Texas, 1988

First International Arnold Rikli Symposium, Basel, Switzerland,  
1989

Binational Association for Education and Research Symposium,  
Altenberg, Germany, 1990

University of Texas Health Science Center at San Antonio, Texas,  
1991

Department of Dermatology and Division of Geographic Medicine,  
Department of Medicine, University of Alabama, Birmingham,  
Alabama, 1992

Fiftieth Year Anniversary Reunion Symposium,  
The Royal Melbourne Hospital, Melbourne, Australia, 1992

World Congress of Dermatology, New York, New York 1992

Sixth Annual Summer Seminar in Dermatology, Cleveland Clinic  
Foundation, 1992

Department of Dermatology, University of Iowa, Iowa City, Iowa,  
1992

Third Great Lakes PDT Meeting, Cleveland, Ohio, 1993

Third Arnold Rikli Symposium, Basel, Switzerland, 1993

Department of Dermatology, University of Freiburg, Freiburg,  
Germany, 1993

International Summit on Anti-Fungal Therapy,  
San Francisco, California, 1993

Conference on Alternatives in the Assessment of Toxicity: Theory and Practice

U. S. Army Edgewood Research,  
Development and Engineering Center,  
Aberdeen Proving Ground, 1994

Grand Rounds, Department of Medicine,  
Meridia Huron Hospital, Cleveland, Ohio, 1994

Harvard Skin Diseases Research Center,  
Brigham and Women's Hospital, Boston, Massachusetts, 1994

Symposium on Management of Cutaneous Fungal Infections:  
Onychomycosis, Candida and AIDS Symposium, Hershey,  
Pennsylvania, 1994

Department of Dermatology, Heinrich Heine University,  
Dusseldorf, Germany, 1995

Department of Dermatology, University of Aachen, Aachen,  
Germany, 1995

Grand Rounds, Department of Dermatology,  
Henry Ford Hospital, Detroit, Michigan, 1995

Fourth Great Lakes PDT Meeting, Detroit, Michigan, 1995

Photocarcinogenesis: Mechanisms, Models and Human Health  
Implications, Washington, D.C., 1995

National Psoriasis Foundation - 1995 Preceptorship Program,  
Cleveland, Ohio, 1995

International Symposium on Cosmetic Efficacy, New York, New  
York, 1996

L'Oreal Research Center for Toxicology, Aulnay, France, 1996

The Third Annual EPA Health and Environmental Effects  
Research Laboratory Symposium on Susceptibility and Risk,  
Durham, North Carolina, 1996

The Third Düsseldorf Conference on Immunotoxicology,  
Düsseldorf, Germany, 1996

Grand Rounds, Department of Dermatology, Northwestern University, Chicago, Illinois, 1996

Johns Hopkins Center for Alternatives to Animal Testing Meeting on Mechanisms of Toxicity, Baltimore, MD, 1997

IBC Second Annual Conference on Latest In Vitro Testing Methods Industry, Washington, DC, 1997

Update in Dermatology for Family Practitioners, Birmingham, AL 1998

Dermatology Foundation Winter Colloquium, Naples, FL 1999

Grand Rounds, Department of Dermatology, Yale University, New Haven, Connecticut, 1999

Department of Dermatology, Mt. Sinai School of Medicine, New York, New York, 1999

Tennessee Dermatology Society, Nashville, Tennessee, 1999

Estee Lauder Research Division, Melville, New York, 2000

Mount Sinai Annual Update on Dermatology, New York, New York, 2000

Korean Photobiology Research Group, Seoul, Korea 2001

Practical Photodermatology: Phototherapy and Cosmetic Photodermatology, European Society for Photodermatology, Düsseldorf, Germany 2001

Grand Rounds, Department of Dermatology, Emory University, Atlanta, Georgia, 2001

Plenary Speaker, World Congress of Photodynamic Medicine, Vancouver, British Columbia, 2001

Guest Speaker, UVABC Club, Nara, Japan, 2001

Chao Family Comprehensive Cancer Center Symposium  
Carcinogenesis and Cancer Prevention: Non-melanoma and Melanoma Skin Cancer  
Newport Beach, California 2001

Cleveland Dermatological Society,  
Cleveland, Ohio 2002

Department of Dermatology  
University of Louisville,  
Louisville, Kentucky 2002

Department of Dermatology  
Henry Ford Hospital,  
Detroit, Michigan 2002

Department of Dermatology  
Wayne State University,  
Detroit, Michigan 2004

Middle Georgia Dermatological Society  
Macon, Georgia 2004

International Symposium on Diet in Causation & Prevention  
of Cancer  
ITRC, Lucknow, India, 2005

Department of Dermatology  
Fudan University  
Shanghai, China, 2005

Chinese National Academy of Sciences  
Beijing, China, 2005

Department of Dermatology  
Beijing University  
Beijing, China, 2005

Department of Dermatology  
Mt. Sinai School of Medicine  
New York, NY, 2006

Department of Dermatology  
University of Wisconsin,  
Madison, Wisconsin, 2006

Skin Diseases Research Center  
Department of Dermatology  
Case Western Reserve University  
Cleveland, Ohio, 2007

Department of Dermatology  
New York University  
New York, NY, 2008

Department of Dermatology  
University of Marburg  
Marburg, Germany, 2008

First International Conference on Dermatotoxicology  
Vaalsbroek, Netherlands, 2008

American Association of Cancer Research  
Frontiers in Cancer Prevention Research  
Washington, D.C., 2008

American Association of Cancer Research Annual Meeting  
Denver, CO, 2009

Chicago Dermatology Society  
Sidney Barsky Invited Lectureship  
Chicago, IL, 2009

International Congress for Photobiology  
Duesseldorf, Germany 2009

Emory University  
Atlanta, GA, 2009

**External Reviewer:**

Department of Photomedicine, Lovelace Medical  
Foundation, Albuquerque, New Mexico, 1992

Skin Diseases Core Center, University of Texas  
Southwestern Medical School, Dallas, Texas, 1994

**Clinical Interests:**

- Immunodermatology
- Photosensitivity diseases/phototherapy.

**Research Interests:**

Span both basic and clinical research and include photobiology, immunodermatology, and skin cancer chemoprevention and therapy.

## ARTICLES

1. ELMETS CA, Hinthorn DR and Liu C: Brain tuberculoma. J Kansas Med Soc 80:332-335, 1979.
2. Couchonnal GJ, Hodges GR, Barnes WG, ELMETS CA and Clark GM: Complications with heparin-lock needles: Prospective evaluation of three different skin preparation/follow-up care procedures. JAMA 242:2098-2100, 1979.
3. ELMETS CA and Ceilley RI: Amelanotic melanoma presenting as a pyogenic granuloma. CUTIS 25:164-168, 1980.
4. Tigelaar RE, Bergstresser PR, Lonsberry LM, ELMETS CA, Wood PH and Streilein JW: Oral ingestion of epicutaneous applied hapten in mice may unwittingly induce down-regulation of contact hypersensitivity. J Immunol 129:1898-1904, 1982.
5. ELMETS CA, Bergstresser PR and Streilein JW: Differential distributions of Langerhans cells in organ culture of human skin. J Invest Dermatol 79:340-345, 1982.
6. ELMETS CA and Bergstresser PR: Ultraviolet radiation effects on immune processes. Photochem Photobiol 36:715-719, 1982.
7. ELMETS CA, Bergstresser PR, Tigelaar RE, Wood PJ and Streilein JW: Analysis of the mechanism of unresponsiveness produced by haptens painted on skin exposed to low dose ultraviolet radiation. J Exp Med 158:781-794, 1983.
8. ELMETS CA: Phenotypic characterization of cutaneous infiltrates. Ann Int Med 99:406-407, 1983.
9. ELMETS CA, LeVine MJ and Bickers DR: Action spectrum studies for induction of immunologic unresponsiveness to dinitrofluorobenzene following in vivo low dose ultraviolet radiation. Photochem Photobiol 42:391-398, 1985.
10. Katzman M, ELMETS CA, Lederman MM. Molluscum contagiosum and the acquired immunodeficiency syndrome. Ann Intern Med. 102:413-4, 1985.
11. ELMETS CA and Bowen KD: Immunologic suppression of dinitrofluorobenzene contact hypersensitivity in mice treated with hematoporphyrin derivative photoradiation. Cancer Res 46:1608-1611, 1986.
12. Martin AG, Kleinhenz ME, ELMETS CA: Immunohistologic identification of antigen presenting cells in cutaneous sarcoidosis. J Invest Dermatol 86:625-629, 1986.
13. Monnier VM, Vishwanath V, Frank KE, ELMETS CA, Dauchot P, Kohn RR: Relation between complications of type I diabetes mellitus and collagen-linked fluorescence. New Eng J Med 314:403-408, 1986.

14. Hawkins CW, Bickers DR, Mukhtar H and ELMETS CA: Cutaneous porphyrin photosensitization: murine ear swelling as a marker of the acute response. J Invest Dermatol 86:638-641, 1986.
15. ELMETS CA: Drug-induced photoallergy. Dermatol Clinics 4:231-241, 1986.
16. Vishwanath V, Frank KE, ELMETS CA, Dauchot P, Monnier VM: Glycation of skin collagen in type I diabetes mellitus: correlation with long-term complications. Diabetes 35:916-921, 1986.
17. Monnier VM, ELMETS CA, Frank KE, Vishwanath V, Yamashita T: Age-related normalization of the browning rate of collagen in diabetic subjects without retinopathy. J Clin Invest 78:832-835, 1986.
18. ELMETS CA, Larson K, Urda GA, Schacter B: Inhibition of postbinding target cell lysis and of lymphokine-induced enhancement of human natural killer cell activity by in vitro exposure to ultraviolet B radiation. Cell Immunol 104:47-58, 1987.
19. Katzman M, Carey JT, ELMETS CA, Jacobs GH and Lederman MM: Molluscum contagiosum and the acquired immunodeficiency syndrome: Clinical and immunologic details of two cases. Brit J Dermatol 116:131-138, 1987.
20. Rich E, ELMETS CA, Fujiwara H, Wallis RS, Ellner JJ: Deleterious effect of ultraviolet-B radiation on accessory function of human blood adherent mononuclear cells. Clin Exp Immunol 70:116-126, 1987.
21. Klemme JC, Mukhtar H, ELMETS CA: Induction of contact hypersensitivity to dimethylbenz(a)anthracene and benzo(a)pyrene in C3H mice. Cancer Res 47:6074-6078, 1987.
22. ELMETS CA, Khan WA, Klemme JC, Mukhtar H: Impaired immunological surveillance by 7,12-dimethylbenz(a)anthracene augments its skin tumorigenicity in C3H mice. Biochem Biophys Res Comm 151:148-152, 1988.
23. Athar M, Mukhtar H, ELMETS CA, Zaim MT, Lloyd JR, Bickers DR: In situ evidence for the involvement of superoxide anions in cutaneous porphyrin photosensitization. Biochem Biophys Res Comm 151:1054-1059, 1988.
24. Krutmann J and ELMETS CA: Recent studies on mechanisms in photoimmunology. Photochem Photobiol 48:787-798, 1988.
25. Silverman RA, Lender JA, ELMETS CA: Transepidermal water loss during reepithelialization of standardized wounds in humans treated with occlusive dressings. J Am Acad Dermatol 20:755-760, 1989.

26. Athar M, ELMETS CA, Bickers DR and Mukhtar H: A novel mechanism for the generation of superoxide anions in porphyrin mediated cutaneous photosensitization: Activation of the xanthine oxidase pathway. J Clin Invest 83:1137-1143, 1989.
27. Krutmann J, Athar M, Khan IU, Mendel D, Guyre PM, Mukhtar H, ELMETS CA: Functional inhibition of the high affinity Fc receptor (FcγRI) on human monocytes by porphyrin photosensitization is highly specific and mediated by the generation of superoxide radicals. J Biol Chem 264:11407-11413, 1989.
28. Chren MM, Sorensen RU, Silverman RA, ELMETS CA: Leukocytoclastic vasculitis in a patient infected with human immunodeficiency virus: a case report. J Amer Acad Dermatol 21:1161-1164, 1989.
29. Krutmann J, Kammer GM, Toossi Z, Waller RL, Ellner JJ, ELMETS CA: UVB radiation and human monocyte accessory function: differential effects on pre-mitotic events in T cell activation. J Invest Dermatol 94:204-209, 1990.
30. Krutmann J, Khan IU, Zhang F, Rich EA, Wallis RS, Ellner JJ, ELMETS CA: The cell membrane is a major locus for UVB-induced inhibition of monocyte accessory function. J Clin Invest 85:1529-1536, 1990.
31. Moritz D and ELMETS CA: Eosinophilic pustular folliculitis. J Amer Acad Dermatol 24:903-907, 1991.
32. Hertl M, Kaplan DR, Fayen JD, Panuska JR, Ellner JJ, ELMETS CA: The accessory function of B lymphocytes is resistant to the adverse effects of UV radiation. Eur J Immunol 21:291-297, 1991.
33. Pacque M, ELMETS CA, Dukuly ZD, Munoz B, White AT, Taylor HR, Greene BM: Improvement in severe Onchocercal skin disease after a single dose of ivermectin. Am J Med 90:590-594, 1991.
34. Mukhtar H, Agarwal R, Athar M, Lewen RL, ELMETS CA, and Bickers DR: Photodynamic therapy of murine skin tumors using photofrin-II. Photodermatol Photoimmunol Photomed 8:169-175, 1991.
35. Simon JC, Krutmann J, ELMETS CA, Bergstresser PR, Cruz Jr, PD: Altered T cell activation induced by ultraviolet B-irradiated antigen presenting cells: relevance to immune responses initiated in skin. J Invest Dermatol 98:66s-69s, 1992.
36. Miranda W, Shiratsuchi H, Tubesing K, Toba H, Ellner JJ, ELMETS, CA: Ultraviolet-irradiated monocytes efficiently inhibit the intracellular replication of Mycobacterium avium intracellulare. J Clin Invest 89:1282-1287, 1992.

37. Agarwal R, Athar M, ELMETS CA, Bickers DR, and Mukhtar H: Photodynamic therapy of chemically- and ultraviolet B radiation-induced murine skin tumors by chloroaluminum phthalocyanine tetrasulfonate. Photochem Photobiol 56:43-50, 1992.
38. ELMETS CA, Zaidi SI, Bickers DR, Mukhtar H: Immunogenetic influences on the initiation stage of the cutaneous chemical carcinogenesis pathway. Cancer Res 52:6106-6109, 1992.
39. ELMETS CA, Vargas A, Oresajo C: Photoprotective effects of sunscreens in cosmetics on sunburn and Langerhans cell photodamage. Photodermatol Photoimmunol Photomed 9:113-120, 1992.
40. Khan IU, Boehm KD, ELMETS, CA: Modulation of interferon-gamma induced HLA-DR expression on keratinocytes by ultraviolet radiation. Photochem Photobiol 57:285-290, 1993.
41. Fleming TE, Miranda WS, Tubesing KA, ELMETS CA: Expression of the BB-1/B7 adhesion molecule on cells of non-hematopoietic origin: keratinocytes from human epidermis. J Invest Dermatol 101:754-758, 1993.
42. Boehm KD, Yun JK, Garner C, Strohl KP, and ELMETS CA: In situ detection of cytokine messenger RNAs in the eccrine sweat gland of normal human skin. Lymphokine Cytokine Res 13:9-13, 1994.
43. Fleming TE, Miranda WS, Soohoo L, Cooper B, Lazarus H, ELMETS CA: An inflammatory eruption associated with recombinant human interleukin-6. Brit J Dermatol 130:534-536, 1994.
44. Gould JW, Mercurio MG, and ELMETS CA: Cutaneous photosensitivity disease induced by exogenous agents. J Am Acad Dermatol 33:551-573, 1995.
45. Boehm KD, Yun JK, Strohl KP, and ELMETS CA: Messenger RNAs for the multifunctional cytokines interleukin-1a, interleukin-1b, and tumor necrosis factor-a are present in adnexal tissues and in dermis of normal human skin. Exp Dermatol 4:335-341, 1995.
46. ELMETS CA: Management of common superficial fungal infections in AIDS patients. J Am Acad Dermatol 31:S60-S63, 1994.
47. Bardenstein DS and ELMETS CA: Hyperfocal cryotherapy of multiple molluscum contagiosum lesions in patients with AIDS. Ophthalmology 102:1031-1034, 1995.
48. Zepter K, Haeffner AC, Trefzer U, and ELMETS CA: Reduced growth factor requirements and accelerated cell-cycle kinetics in adult human melanocytes transformed with SV40 large T antigen. J Invest Dermatol 104:755-762, 1995.

49. Klein LR, ELMETS CA, Callen JP: Photoexacerbation of cutaneous lupus erythematosus due to UVA emissions from a photocopier. Arthritis Rheum 38:1152-1156, 1995.
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