

PETER M. ELIAS, M.D.

CURRICULUM VITAE

DATE OF BIRTH: April 1, 1941

PLACE OF BIRTH: Waltham, Massachusetts

EDUCATION:

Stanford University, Stanford, California - B.A.	1963
University of California, San Francisco - M.D.	1967
University of California, San Francisco - M.S.	1975

POSTDOCTORAL TRAINING:

Rotating Internship, King County - Harborview Hospital, Seattle, Washington	1967-1968
Resident in Internal Medicine, University of California, San Francisco, California	1968-1969
Clinical Associate, Dermatology, National Cancer Institute, Bethesda, Maryland	1969-1970
Dermatology Resident, Clinical and Research Fellow, Harvard Medical School, Boston, Massachusetts	1971-1973
Dermatology Foundation, and NIH Fellow, Department of Pathology, University of California, San Francisco, California	1973-1975

BOARD CERTIFICATION:

Dermatology	1973
Dermatopathology	1979

PROFESSIONAL APPOINTMENTS:

Assistant Professor, Department of Dermatology, University of California, San Francisco, California	1974-1979
Associate Professor of Dermatology, UCSF, CA	1979-1985
Chief, Dermatology Service, Veterans Administration Hospital, & Vice-Chairman, Department of Dermatology, UCSF, San Francisco, CA	1975-1997
Professor, University of California, San Francisco, California	1985-present
Chairman, Field Advisory Group, Veterans Administration Central Office	1980-1983
Council on Governmental Liaison, American Academy of Dermatology	1980-1983
Medical and Scientific Committee, Dermatology Foundation	1983-1987

HONORS AND AWARDS:

Co-author, Gold Medal Award, Scientific Exhibit, AAD meeting	1971
N.A.T.O. Senior Fellowship in Science	1973
Author, Gold Medal Award for Scientific Exhibits, AAD meeting	1978
American Society for Clinical Investigation (elected)	1982-present
American Association of Professors (elected)	1992-present
Author, Bronze Medal Award - Scientific Exhibit, AAD meeting	1984
Experimental Dermatology, Editorial Board	1991-2008

Skin Pharmacology and Applied Physiology, Editorial Board	1987-present
Robert Chesebrough Gold Medal for Research	1990
Fellow, California Academy of Sciences	1991-present
Literature Award, Society of Cosmetic Chemists	December 1992
The Journal of Investigative Dermatology, Associate Editor	1997-2003
Recipient of the Paul Gerson Unna Prize	May 1999
William Montagna Award, Society for Investigative Dermatology	May 2001
Irwin H. Blank Memorial Lecturer, Wellman Laboratories, Harvard Medical School	April 2002
Maison G. deNavarre Medal Award, Society of Cosmetic Chemists	December 2002
George P. Odland Lecturer, Department of Dermatology, University of Washington	May, 2003
Honorary Doctor of Medicine, University of Innsbruck	March 2007
Stephen S. Chang Award, American Oil Chemists Society	May 2007
Albert M. Kligman/Phillip Frost Leadership Lecture and Award	May 2011
Joseph van Plenck Lecture, Austrian Society of Dermatology	December 2012
International Honorary Member, The Japanese Dermatological Association	June 2013
Dohi Memorial Lectureship, The Japanese Dermatological Association	June 2013
Co-Chairperson, Homeostasis in Skin Barrier, 4 th Pan Asian Pacific Skin Barrier Research Annual Symposium, Seoul, South Korea	October 2013
Old Herborn University Lectureship, Old Herborn, Germany	June 2014
Professor Yau-Chin Lu Memorial Lectureship, Taiwanese Dermatological Association, Tainan, Taiwan	November 2014
Honorary Member, Society for Investigative Dermatology	October 2015
Honorary Member, European Society for Dermatological Research	May 2018
Lifetime Achievement Award, Mancunian Skin Club Manchester, England	May 2019
Journal of the Amer Acad of Dermatol publication, "Top Authors in Dermatology by h-index. A Bibliometric Analysis of 1980-2020." Doi: http://doi.org/10.1016/j.jaad.2020.10.087 . <u>Dr. Elias rated #1 world-wide in peer-reviewed publications/ #4 world-wide in citations for the past 40 years.</u>	November 2020

SOCIETY MEMBERSHIPS AND PUBLIC SERVICE:

Founding Member of Society of Skin Pharmacology and Physiology
 American Society for Cell Biology
 Society of Investigative Dermatology
 FIRST, Medical and Scientific Advisory Board
 American Federation for Clinical Research
 American Society for Clinical Investigation
 American Association of Professors
 Society for Cutaneous Ultrastructure Research
 Alopecia Areata Foundation, Medical Advisory Board
 Society of Investigative Dermatology, Goals Planning Committee

American Academy of Dermatology, Committee on Occupational Dermatology
Dermatology Foundation, Leaders Society
Skin Pharmacology Society, Board Member
Pan-American Society for Pigment Cell Research
Ichthyosis Registry Advisory Committee
Member, Arthritis, Connective Tissue and Skin Study Section,
National Institutes of Health, US Dept of Health & Human Services

2008-2012

EDITORIAL BOARD MEMBERSHIPS: Journal of Investigative Dermatology (through 2008); Archives of Dermatology; Dermatology; Experimental Dermatology; Skin Pharmacology and Applied Physiology

Articles:

1. Elias, H., Hennig, A., **Elias, P.M.** Contributions to the geometry of sectioning: V. Some methods for the study of kidney structure. *Z. wiss, mikr. Anat.* 65:70-82, 1961.
2. Elias, H., Allara, E., **Elias, P.M.**, Murthy, A.S.K. The podocytes, reexamined. *Z. mikr. - anat. Forsch.* 72:344-365, 1966.
3. Elias H., Murthy, A.S.K., **Elias, P.M.** Structure of the adrenal cortex in rheumatoid diseases, including some observations on the adenohypophysis. *Acta Endocr.* 51:91-113, 1966.
4. Wassermann, F.R., **Elias, P.M.**, Tyler, S. "Analysis of size distribution of fat cells in adipose tissue at different ages." In: Quantitative Methods in Morphology (ed. Weibel, E., Elias, H.), New York: Springer, 1967, p. 46-52.
5. **Elias, P.M.**, Epstein, W.L. Ultrastructural observations on experimentally induced foreign-body and organized epithelioid-cell granulomas in man. *Am. J. Path.* 52:1207-1224, 1968.
6. **Elias, P.M.**, Elias, H. Excretory Organs. In: The Encyclopedia of the Biological Sciences (ed. Gray, P.) New York: Van Nostrand, 1970, p. 313-322.
7. **Elias, P.M.**, Ornstein, L., Lutzner, M.A., Robbins, J.H. A method for studying the ultrastructure of intercellular contacts in leukocyte cultures. *Experientia* 27:116-118, 1971.
8. **Elias, P.M.**, Krueger, G.R.F., Berard, C.W., Peck, G.L., et al. Morphology of graft-versus-host reaction in HL-A-matched bone marrow transplantation and its differential diagnosis. *Exp. Hemat.* 21:4-7, 1971.
9. Peck, G., Herzig, J., **Elias, P.M.** Toxic epidermal necrolysis in a patient with graft-versus-host reaction. *Arch. Dermatol.* 105:561-569, 1972.
10. **Elias, P.M.**, Park, H.D., Patterson, A.E., et al. Osmium tetroxide-zinc iodide staining of Golgi elements and surface coats of hydras. *J. Ultrastruct. Res.* 40:87-102, 1972.
11. **Elias, P.M.**, Montague, P., Ugel, A.R. In vitro studies on the kinetics, composition, and homology of bovine keratohyalin. *Exp. Cell Res.* 73:95-100, 1972.
12. Peck, G., **Elias, P.M.** Wound healing in a patient with Darier's disease: Preliminary Observations. In: Epidermal Wound Healing (ed. Maibach, H.I., Rovee, D.), Chicago: Yearbook Medical Publishers, 1972, p. 537-563.
13. **Elias, P.M.**, Jarratt, M., Zalis, I.E., Catalanotto, F.A. Childhood pemphigus vulgaris. *New Engl. J. Med.* 287:758-761, 1972.
14. Peck, C.L., **Elias, P.M.**, Gray, R.G., Jr. Graft-versus-host reaction and toxic epidermal necrolysis. *Lancet* 2:1151-1153, 1972 (letter).
15. **Elias, P.M.**, Arndt, K.A., Peck, G.L. Scalded-skin syndrome in adults. *New Engl. J. Med.* 288:582-583 (letter).
16. **Elias, P.M.** Medical draft resistance: A Washington, D.C. experience. *New Engl. J. Med.* 288:399-402, 1973.
17. **Elias, P.M.**, Goldsmith, L.A. Intertriginous xanthomata in Type 2 hyperbetalipoproteinemia. *Arch. Dermatol.* 107:761-762, 1973.
18. Robbins, J.H., **Elias, P.M.**, Ornstein, L. Intercellular lacunae: sequestered microenvironments in stimulated leukocyte cultures. *Experientia* 29:212-213, 1973.
19. **Elias, P.M.** Erythema nodosum and serological lupus erythematosus: Simultaneous occurrence in a patient using oral contraceptives. *Arch. Dermatol.* 108:716-718, 1973.
20. **Elias, P.M.**, Yuspa, S., Guillino, M., et al. In vitro neoplastic transformation of mouse skin cells: Morphology and ultrastructure of cells and tumors. *J. Invest. Dermatol.* 62:569-581, 1974.
21. **Elias, P.M.** Staphylococcal scalded skin syndrome in adults. *Arch. Dermatol.* 110:295-296, 1974 (letter).
22. **Elias, P.M.**, Fritsch, P., Tappeiner, G., Mittermayer, H., Wolff, K. Experimental staphylococcal toxic epidermal necrolysis (TEN) in adult humans and mice. *J. Lab. Clin. Med.* 84:414-424, 1974.
23. **Elias, P.M.**, Mittermayer, H., Tappeiner, G., Fritsch, P., Wolff, K. Staphylococcal toxic epidermal necrolysis (TEN): The expanded mouse model. *J. Invest. Dermatol.* 63:467-475, 1974.
24. **Elias, P.M.**, Friend, D.S. The permeability barrier in mammalian epidermis. *J. Cell Biol.* 65:180-191, 1975.
25. **Elias, P.M.**, Fritsch, P., Dahl, M.V., Wolff, K. Staphylococcal toxic epidermal necrolysis: Pathogenesis and studies on the subcellular site of action of exfoliation. *J. Invest. Dermatol.* 65:501-512, 1975.

26. **Elias, P.M.**, Fritsch, P., Mittermayer, H. Staphylococcal toxic epidermal necrolysis: Species and tissue susceptibility and resistance. *J. Invest. Dermatol.* 66:80-89, 1976.
27. **Elias, P.M.**, Levy, S.W. Bullous impetigo: Occurrence of localized scalded skin syndrome in adults. *Arch. Dermatol.* 112:856-858, 1976.
28. **Elias, P.M.**, Friend, D.S. Vitamin A-induced mucous metaplasia: An in vitro system for modulating tight and gap junction differentiation. *J. Cell Biol.* 68:173-188, 1976.
29. **Elias, P.M.**, Klinger, G., Montague, P. Kinetics of in vitro bovine keratohyalin synthesis. *Br. J. Dermatol.* 95:115-122, 1976.
30. Fritsch, P., **Elias, P.M.**, Varga, J. The fate of staphylococcal exfoliation in newborn and adult mice. *Br. J. Dermatol.* 95:275-284, 1976.
31. **Elias, P.M.** Early use of poison oak. *Lancet* 2:1417-1418, 1976.
32. **Elias, P.M.**, Fritsch, P., Epstein, E.H., Jr. Staphylococcal scalded skin syndrome: Clinical features, pathogenesis, and recent microbiological and biochemical developments. *Arch. Dermatol.* 113:207-219, 1977.
33. Peck, G.L., **Elias, P.M.**, Wetzel, B. Influence of vitamin A on differentiating epithelia. In: Biochemistry of Cutaneous Epidermal Differentiation. (ed. Seiji, M. and Bernstein, I.A.), University Park Press, 1977, pp. 110-126.
34. Peck, G.L., **Elias, P.M.**, Wetzel, B. Effects of retinoic acid on embryonic chick skin. *J. Invest. Dermatol.* 69:463-476, 1977.
35. **Elias, P.M.**, Goerke, J., Friend, D. Mammalian epidermal barrier layer lipids: Composition and influence on structure. *J. Invest. Dermatol.* 69:535-546, 1977.
36. **Elias, P.M.**, McNutt, N.S., Friend, D. Membrane alterations during cornification of mammalian squamous epithelia: A freeze-fracture, tracer and thin-section study. *Anat. Rec.* 189:577-593, 1977.
37. **Elias, P.M.**, Goerke, J., Friend, D.S. Freeze-fracture identification of sterol-digitonin complexes in cell and liposome membranes. *J. Cell Biol.* 78:577-596, 1978.
38. **Elias, P.M.**, Brown, B.E. The mammalian cutaneous permeability barrier: Defective barrier function in essential fatty acid deficiency correlates with abnormal intercellular lipid deposition. *Lab. Invest.* 39:574-583, 1978.
39. **Elias, P.M.** Urticaria. *Med. Challenge* 10:25-37, 1978.
40. Lempert, T.E., **Elias, P.M.** Intraepidermal cell surface fine structure: Preservation and examination at high resolution. *Anat. Rec.* 193:927-937, 1979.
41. Fritsch, P.O., Kaaserer, G., **Elias, P.M.** Action of staphylococcal epidermolysin: Further observations on its species specificity. *Arch. Dermatol. Res.* 264:287-291, 1979.
42. Fritsch, P., **Elias, P.M.** Mechanism of vesicle formation and classification. In: Dermatology In General Medicine (ed. Fitzpatrick, T.B., et al) McGraw-Hill, 1979, pp. 287-295.
43. **Elias, P.M.**, Fritsch, P. Erythema multiforme. In: Dermatology In General Medicine (ed. Fitzpatrick, T.B., et al) McGraw-Hill, 1979, pp. 295-303.
44. Fritsch, P., **Elias, P.M.** Toxic epidermal necrolysis. In: Dermatology In General Medicine (ed. Fitzpatrick, T.B., et al) McGraw-Hill, 1979, pp. 303-306.
45. **Elias, P.M.**, Fritsch, P. Staphylococcal scalded skin syndrome. In: Dermatology In General Medicine (ed. Fitzpatrick, T.B., et al) McGraw-Hill, 1979, pp. 306-310.
46. **Elias, P.M.**, Friend, D.S., Goerke, R.J. Membrane sterol heterogeneity: Freeze-fracture detection with saponins and filipin. *J. Histochem. Cytochem.* 27:1247-1260, 1979.
47. Friend, D.S., **Elias, P.M.**, Rudolf, I. Disassembly of the guinea pig sperm tail. In: The Spermatozoon. (ed. Fawcett, D.W. and Redford, J.M.) Bedford, Urban & Schwarzenberg, Inc., 1979, pp. 157-168.
48. **Elias, P.M.**, Brown, B.E., Fritsch, P.O., Goerke, R.J., Gray, G.M., White, R.J. Localization and composition of lipids in neonatal mouse stratum granulosum and stratum corneum. *J. Invest. Dermatol.* 73:339-348, 1979.
49. **Elias, P.M.**, Grayson, S., Caldwell, T.M., McNutt, N.S. Gap junction proliferation in retinoic acid-treated human basal cell carcinoma. *Lab. Invest.* 42:469-474, 1980.
50. **Elias, P.M.**, Brown, B., Ziboh, V.A. The permeability barrier in essential fatty acid deficiency: Evidence for a direct role for linoleic acid in epidermal barrier function. *J. Invest. Dermatol.* 74:230-233, 1980.
51. Nemanic, M.K., **Elias, P.M.** In situ precipitation: A novel cytochemical technique for visualization of permeability pathways in mammalian stratum corneum. *J. Histochem. Cytochem.* 28:573-578, 1980.

52. Holick, M.F., McNeill, S.M., MacLaughlin, J., Clark, M.B., Holick, S.A., Potts, J.T., Anderson, R.R., Parrish, J.A., **Elias, P.M.** The epidermis: A unique organ responsible for the photobiosynthesis of vitamin D₃. In: Endocrinology '79, Raven Press, 1980, pp. 301-308.
53. Holick, M.F., MacLaughlin, J.A., Clark, M.B., Holick, S.A., Potts, J.T., **Elias, P. M.**, et al. Photosynthesis of previtamin D₃ in human skin and the physiologic consequences. *Science* 210:203-205, 1980.
54. **Elias, P.M.** Lipids and the epidermal permeability barrier. *Arch. Dermatol. Res.* 270:95-117, 1981.
55. **Elias, P.M.** Epidermal lipids, membranes, and keratinization. *Int. J. Dermatol.* 20:1-19, 1981.
56. **Elias, P.M.**, Cooper, E.R., Korc, A., Brown, B.E. Percutaneous transport in relation to stratum corneum structure and lipid composition. *J. Invest. Dermatol.* 76:297-301, 1981.
57. **Elias, P.M.**, Williams, M.L. Retinoids, cancer and the skin. *Arch. Dermatol.* 117:160-180, 1981.
58. **Elias, P.M.**, Fritsch, P., Lampe, M., Williams, M., Brown, B., Nemanic, M.K., Grayson, S. Retinoid effects on epidermal structure, differentiation, and permeability. *Lab. Invest.* 44:531-540, 1981.
59. **Elias, P.M.** Membranes, lipids, and the epidermal permeability barrier. In: The Epidermis In Disease. (ed. Marks, R. and Christophers, E.) Berlin: Springer, pp. 1-31, 1981.
60. **Elias, P.M.**, Fritsch, P. Biology and pathogenesis of the staphylococcal scalded skin syndrome. In: The Epidermis In Disease. (ed. Marks, R. and Christophers, E.) Berlin: Springer, pp. 107-126, 1981.
61. **Elias, P.M.**, Fritsch, P. Staphylococcal scalded skin syndrome: Clinical features, biology and pathogenesis. In: Skin Microbiology: Relevance to Clinical Infection. (ed. Maibach, H. and Aly, R.) New York: Springer Verlag, pp. 245-264, 1981.
62. **Elias, P.M.**, Grayson, S., Gross, E.G., Peck, G.L., McNutt, N.S. Influence of topical and systemic retinoids on basal cell carcinoma cell membranes. *Cancer* 48:932-938, 1981.
63. Williams, M.L., **Elias, P.M.** Nature of skin fragility in patients receiving retinoids for systemic effect. *Arch. Dermatol.* 117:611-619, 1981.
64. Fritsch, P., Pohlin, G., Langle, U., **Elias, P.M.** Response of epidermal cell proliferation to orally administered aromatic retinoid. *J. Invest. Dermatol.* 77:287-291, 1981.
65. Epstein, E.H. Jr., Williams, M.L., **Elias, P.M.** Steroid sulfatase, X-linked ichthyosis and stratum corneum cell cohesion. *Arch. Dermatol.* 117:761-763, 1981.
66. Williams, M.L., **Elias, P.M.** Stratum corneum lipids in disorders of cornification. I. Increased cholesterol sulfate content of stratum corneum in recessive X-linked ichthyosis. *J. Clin. Invest.* 68:1404-1410, 1981.
67. **Elias, P.M.** Staphylococcal scalded skin syndrome (including Ritter's Disease). In: Current Dermatologic Therapy (ed. Maddin, S.) W.B. Saunders Co., Philadelphia, pp. 446-448, 1982.
68. Grayson, S., **Elias, P.M.** Isolation and lipid biochemical characterization of stratum corneum cell membrane complexes. Implications for the cutaneous permeability barrier. *J. Invest. Dermatol.* 78:128-135, 1982.
69. Nemanic, M.K., Fritsch, P.O., **Elias, P.M.** Perturbations of membrane glycosylation in retinoid-treated epidermis. *J. Amer. Acad. Dermatol.* 6:801-808, 1982.
70. Bergeld, W.F., Derbes, V.J., **Elias, P.M.**, Frost, P., Greer, K.E., Shupack, J.L. The treatment of keratosis palmaris et plantaris with isotretinoin. *J. Am. Acad. Dermatol.* 6:727-731, 1982.
71. Rehfeld, S.J., **Elias, P.M.** Mammalian stratum corneum contains physiologic lipid thermal transitions. *J. Invest. Dermatol.* 79:1-3, 1982.
72. Williams, M.L., **Elias, P.M.** n-Alkanes in normal and pathological human scale. *Biochem. Biophys. Res. Commun.* 107:322-328, 1982.
73. Snyder, R.A., Schwartz, R.A., Schneider, J.S., **Elias, P.M.** Intermittent megadose corticosteroid therapy for generalized lichen planus. *J. Amer. Acad. Dermatol.* 6:1089-1090, 1982.
74. **Elias, P.M.** Dermatology. In: Review of General Internal Medicine. (Smith and Wyngaarden, J.B., Eds) W.B. Saunders Co., Philadelphia, 1982.
75. **Elias, P.M.**, Grayson, S., Lampe, M.A., Williams, M.L., Brown, B.E. The intercorneocyte space. In: The Stratum Corneum, (eds. Marks, R. and Plewig, G.) Springer-Verlag, New York, pp. 53-68, 1983.

76. Williams, M.L., Grayson, S., Bonifas, J.M., Epstein, E.H. Jr., **Elias, P.M.** Epidermal cholesterol sulfate and steroid sulfatase activity and recessive X-linked ichthyosis. In: The Stratum Corneum, (eds. Marks, R. and Plewig, G.) Springer-Verlag, New York, pp.79-85, 1983.
77. Lampe, M.A., Burlingame, A.L., Whitney, J., Williams, M.L., Brown, B.E., Roitman, E., **Elias, P.M.** Human stratum corneum lipids: Characterization and regional variations. *J. Lipid Res.* 24:120-130, 1983.
78. Lampe, M.A., Williams, M.L., **Elias, P.M.** Human epidermal lipids: Characterization and modulations during differentiation. *J. Lipid Res.* 24:131-140, 1983.
79. **Elias, P.M.**, Fritsch, P.O. The staphylococcal scalded skin syndrome: Exfoliation and pathogenesis of blister formation. Biochemistry and Physiology of skin, (ed. Goldsmith, L.), Oxford University Press, New York, pp. 1037-1055, 1983.
80. **Elias, P.M.**, Bonar, L., Grayson, S., Baden, H.P. X-ray diffraction analysis of stratum corneum membrane couplets. *J. Invest. Dermatol.* 80:213-214, 1983.
81. Nemanic, M.K., Whitehead, J.S., **Elias, P.M.** Alterations in membrane sugars during epidermal differentiation: Visualization with lectins and role of glycosidases. *J. Histochem. Cytochem.* 31:887-897, 1983.
82. Snyder, R.A., **Elias, P.M.** Toxic epidermal necrolysis and staphylococcal scalded skin syndrome. *Dermatol. Clinics N. Amer.* 1:235-248, 1983.
83. **Elias, P.M.**, Lampe, M.A., Chung, J-C., Williams, M.L. Diazacholesterol-induced ichthyosis in the hairless mouse. I. Morphological, histochemical and lipid biochemical characterization of a new animal model. *Lab. Invest.* 80:44-49, 1983.
84. **Elias, P.M.** Epidermal lipids, barrier function, and desquamation. *J. Invest. Dermatol.* 80:44s-49s, 1983.
85. **Elias, P.M.**, Chung, J-C., Orozco-Topete, R., Nemanic, M. Membrane glycoconjugate visualization and biosynthesis in normal and retinoid-treated epidermis. *J. Invest. Dermatol.* 81:81s-85s, 1983.
86. Feingold, K.R., Brown, B.E., Lear, S.R., Moser, A.H., **Elias, P.M.** Localization of de novo sterologenesis in mammalian skin. *J. Invest. Dermatol.* 81:365-369, 1983.
87. Grayson, S., Johnson-Winegar, A.D., **Elias, P.M.** Isolation of lamellar bodies from neonatal mouse epidermis by selective sequential filtration. *Science* 221:962-964, 1983.
88. Nemanic, M.K., Whitney, J., Arnaud, S., Herbert, S., **Elias, P.M.** Vitamin D₃ production by cultured human keratinocytes and fibroblasts. *Biochem. Biophys. Res. Commun.* 115:444-450, 1983.
89. **Elias, P.M.** Stratum corneum lipids in health and disease. In: Progress in Diseases of the Skin. (ed. Fleischmajer, R.), Grune & Stratton, Inc., San Francisco, pp. 1-19, 1984.
90. Brown, B.E., Williams, M.L., **Elias, P.M.** Stratum corneum lipid abnormalities in ichthyosis: Detection by a new lipid microanalytical method. *Arch. Dermatol.* 120:204-209, 1984.
91. Chung, J-C., Law, M.Y.L., Elliott, S.T., **Elias, P.M.** Diazacholesterol-induced ichthyosis in the hairless mouse: Assay for comparative potency of topical retinoids. *Arch. Dermatol.* 120:342-347, 1984.
92. Fritsch, P.O., **Elias, P.M.** Staphylogene toxische epidermal nickrolyse. In: Staphylokokken and Staphylokokken - Erkrakunger (ed. Meyer, W.) Berlin, pp. 384-385, 1984.
93. Epstein, Jr. E.H., Bonifas, J.M., Grayson, S., Williams, M.L., **Elias, P.M.** The epidermal cholesterol sulfate cycle. *J. Amer. Acad. Dermatol.* 10:866-868, 1984.
94. Epstein, Jr. E.H., Bystry, J-C., Edelson, R., **Elias, P.M.**, Lowy, D.R., Yuspa, S. Nonmelanoma skin cancer, melanomas, warts and viral oncogenesis. *J. Amer. Acad. Dermatol.* 11:960-963, 1984.
95. Bickers, D.R., **Elias, P.M.**, Marks, R., Soter, N.A., Voorhees, J.J., Ziboh, V.A. Dermatologic needs in drugs and instrumentation. *J. Amer. Acad. Dermatol.* 11:983-989, 1984.
96. **Elias, P.M.**, Williams, M.L., Maloney, M.E., Bonifas, J.A., Brown, B.E., Grayson, S., Epstein, Jr. E.H. Stratum corneum lipids in disorders of cornification: Steroid sulfatase and cholesterol sulfate in normal desquamation and the pathogenesis of recessive X-linked ichthyosis. *J. Clin. Invest.* 74:1414-1421, 1984.
97. Maloney, M.E., Williams, M.L., Epstein, Jr. E.H., Law, M.Y.L., Fritsch, P.O., **Elias, P.M.** Lipids in the pathogenesis of ichthyosis: Topical cholesterol sulfate-induced scaling in hairless mice. *J. Invest. Dermatol.* 83:253-256, 1984.
98. Williams, M.L., **Elias, P.M.** Elevated n-alkanes in congenital ichthyosiform erythroderma: Phenotypic differentiation of two types of autosomal recessive ichthyosis. *J. Clin. Invest.* 74:296-300, 1984.

99. Williams, M.L., **Elias, P.M.** Heterogeneity in autosomal recessive ichthyosis: Clinical and biochemical differentiation of lamellar ichthyosis and non-bullous congenital ichthyosiform erythroderma. *Arch. Dermatol.* 121:477-488, 1985.
100. **Elias, P.M.**, Williams, M.L., Maloney, M.E., Fritsch, P.O., Chung, J-C. Drug-induced animal models of ichthyosis. In: Dermatopharmacology and Dermatotoxicology, (eds. Maibach H.I. & Lowe, N.J.), Karger, Basel, pp. 105-126, 1985.
101. **Elias, P.M.** The essential fatty acid deficient rodent: Evidence for a direct role for intercellular lipid in barrier function. In: Dermatopharmacology and Dermatotoxicology, (eds. Maibach, H.I. and Lowe, N.J.) Karger, Basel, pp. 272-289, 1985.
102. **Elias, P.M.**, Orozco-Topete, R., Lampe, M.A., Williams, M.L., Nemanic, M.K., Grayson, S., Brown, B.E. Methods in epidermal lipid research. In: Methods in Skin Research, (eds. Skerrow & Skerrow), pp. 381-405, 1985.
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In Press:

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