

June 2014

CURRICULUM VITAE

Name: Stuart Howard Yuspa, M.D.

Education:

- 1962 - B.A. Johns Hopkins University, Baltimore, Maryland
- 1966 - M.D. University of Maryland, Baltimore, Maryland

Brief Chronology of Employment:

- 1966-1967 - Medical Internship, Hospital of University of Pennsylvania, Philadelphia, PA
- 1967-1970 - Research Associate, Biology Branch - Experimental Pathology Branch, Etiology, National Cancer Institute, Bethesda, MD
- 1970-1971 - Junior Assistant Resident, Department of Medicine, Hospital of University of Pennsylvania, Philadelphia, PA
- 1971-1972 - Senior Assistant Resident, Department of Medicine, Hospital of University of Pennsylvania, Philadelphia, PA
- 1972-1973 - Senior Investigator, Experimental Pathology Branch, National Cancer Institute, Bethesda, MD
- 1973-1981 - Chief, In Vitro Pathogenesis Section, Laboratory of Experimental Pathology, National Cancer Institute, Bethesda, MD
- 1981-2006 - Chief, Laboratory of Cellular Carcinogenesis and Tumor Promotion, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD
- 1998-2006 - Deputy Director, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD
- 2006-Present - Chief, Laboratory of Cancer Biology and Genetics, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD

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Military Service:

1967-1970 - Public Health Service
1972-1999 - Public Health Service

Medical License and Board Certification:

California, 1972 -Present
Diplomate, National Board of Medical Examiners, 1967
Diplomate, American Board of Internal Medicine, 1972

Societies:

American Association for Cancer Research
American Association for the Advancement of Science
American Society for Cell Biology
Society for Investigative Dermatology
Commissioned Officers Association - United States Public Health Service

Editorial Boards:

Associate Editor, Cancer Research, 1983-1996
Editor-in-Chief, Molecular Carcinogenesis, 1987-1992
Executive Editor, Molecular Carcinogenesis, 1992-Present
Associate Editor, Carcinogenesis, 1995-1998
Editorial Board, International Journal of Cancer, 2000-2006
Associate Editor, Cancer Science, 2004-Present
Associate Editor, Journal of Investigative Dermatology, 2003-2007
Section Editor, Journal of Investigative Dermatology, 2007-Present
Editorial Board, Stem Cell Reviews, 2004-2007

Honors and Other Special Scientific Recognition:

Magna Cum Laude, University of Maryland School of Medicine, 1966
Alpha Epsilon Delta
Alpha Omega Alpha
Balder Prize, University of Maryland Medical School, 1966
Commendation Medal - United States Public Health Service, 1979
Meritorious Service Award - United States Public Health Service, 1986
Memorial Medallion Awarded by Kyushu University School of Medicine,
Kyushu, Japan, 1986
Montagna Lecture - Society for Investigative Dermatology, 1988
Udo Wile Visiting Professor, University of Michigan, 1988
Chairman - 1989 Gordon Conference on Epithelial Differentiation and
Keratinization
Duhring Lecturer, University of Pennsylvania, 1989
Lila Gruber Memorial Cancer Research Award, 1989 Recipient

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Elizabeth Miller Memorial Lectureship - McArdle Laboratory, University of Wisconsin, 1990 Recipient
Robert L. Anderson Award of the Toxicology Forum, 1991 Recipient
Fellow - American Association for the Advancement of Science, Elected 1992
Frontiers of Science Award - Society of Cosmetic Chemists, 1992 Recipient
Clowes Award - American Association for Cancer Research, 1993 Recipient
Robert S. Harris Memorial Lecturer - Massachusetts Institute of Technology, 1997 Recipient
Tanioku Memorial Lecturer - Japanese Society for Investigative Dermatology, 1997 Recipient
Distinguished Service Medal - United States Public Health Service, 1998
Charles Heidelberger Memorial Cancer Research Award, 2000 Recipient
NIH Merit Award, 2001
NCI Mentor of the Year, 2002
Steven Rothman Award, 2004, Society of Investigative Dermatology
NIH Merit Award, 2006
Lifetime Achievement Award, American Skin Association, 2007
Federal Technology Transfer Awards, 2005 -2011
Irwin Freedberg Lectureship, Gordon Conference on Epithelial Differentiation and Keratinization, 2009
NCI Merit Award, 2009
David Martin Carter Mentor Award, American Skin Association, 2012
Steinberg/Wylie Lecture, University of Maryland, School of Medicine, 2012

Committees and Boards:

Ad Hoc Member - Chemical Pathology Study Section, 1979, 1985
Advisory Committee on Biochemistry and Chemical Carcinogenesis, American Cancer Society, 1982
Member - Basic Cancer Research Group, U.S. - France Agreement for Cooperation in Cancer Research, 1980-1985
Program Committee - AACR Annual Meeting, 1986
Clowes Award Committee Chairman - American Association for Cancer Research, 1987
Task Force on the Role of Young Scientists in the American Association for Cancer Research, Chairman, 1987
Rhoads Award Committee - American Association for Cancer Research, 1988
Scientific Steering Committee - American Association for Cancer Research, 1988-1989
Medical Council - The Skin Cancer Foundation, 1988-1989
Board of Directors - American Association for Cancer Research, 1988-1991
Long Range Planning Committee - American Association for Cancer Research, 1989
Scientific Education Committee - American Association for Cancer Research, 1990
Committee on Scientific Programs - Society of Investigative Dermatology, 1989-1994
Chair, Carcinogenesis Section – AACR Annual Meeting, 1993
Scientific Advisory Committee - M.D. Anderson Cancer Center, Science Park

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Campus, 1993-2000

Gertrude Elion Cancer Research Award Selection Committee - American Association for Cancer Research, 1994

Scientific Program Chairman - 55th Annual Meeting of the Society of Investigative Dermatology, 1994

Scientific Advisory Committee, Samuel Waxman Cancer Research Foundation 1995-2010

Publications Committee - American Association for Cancer Research, 1998-2001

Chair, Promotion and Progression Section of Carcinogenesis Program, AACR Annual Meeting, 1999

U19 Grant Advisory Committee, University of California, San Francisco, 2000-2005

Chair, Carcinogenesis Subcommittee for the AACR Annual Meeting, 2003

Chair, Chemical Carcinogen Subcommittee for the AACR Annual Meeting, 2006

Chair, Chemical Carcinogen Subcommittee for the AACR Annual Meeting, 2007

Scientific Advisory Board, University of Colorado Cancer Center, 2008-present

Program Committee, International Skin Carcinogenesis Meeting, 2010

Research Interest:

Chemical Carcinogenesis and Cellular Differentiation

Patents Issued:

US Patent # 7,056,908 Pharmaceutical compositions and methods for preventing skin tumor formation and causing regression of existing tumors.

EP Patent # 8,094,493 A method for the treatment of hyperproliferative epithelial skin diseases by topical application of hydroxylated aromatic protein cross-linking compounds.

EP Patent # 652,948 B1 Development of a vector to target gene expression to the epidermis of transgenic animals.

US Patent # 6,057,298 Keratin K1 expression vectors and methods of use.

US Patent # 5,914,265 Keratin K1 expression vectors and methods of use.

WO Patent # 1992/17,181 A1 Pharmaceutical compositions and methods for preventing skin tumor formation and causing regression of existing tumors.

WO Patent # 1996/25,159 A1 A method for the treatment of hyperproliferative epithelial skin diseases by topical application of hydroxylated aromatic protein cross-linking compounds.

WO Patent # 1993/22,430 A1 Development of a vector to target gene expression to the epidermis of transgenic animals.

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US Patent # 2004/48,845 Pharmaceutical compositions and methods for preventing skin tumor formation and causing regression of existing tumors.

US Patent # 4,722,895 Synthetic peptides for the production of specific keratin protein antibodies.

US Patent # 56,101,85 Method for the treatment of hyperproliferative epithelial skin diseases by topical application of hydroxylated aromatic protein cross-linking compounds.

US Patent # 5,616,471 Effects of growth factors on hair follicle cell proliferation and release of collagenolytic factors.

US Patent # 5,302,511 Antibodies to peptides unique to specific keratin proteins.

US Patent #07/677,429 Pharmaceutical compositions and methods for preventing skin tumor formation and causing regression or existing tumors.

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BIBLIOGRAPHY

1. Yuspa, S. H. and Blaustein, A. S.: Inhibitory effect of pyridoxine deficiency on growth of a transplanted tumor in rats. Proc. Soc. Exp. Med. 123: 398-403, 1967.
2. Yuspa, S. H., Eaton, S. E. A., Morgan, D. L. and Bates R. R.: The binding of 7,12-dimethylbenz[a]anthracene to replicating and non-replicating DNA in cell culture. Chem-Biol. Interactions 1: 223-233, 1969.
3. Yuspa, S. H., Morgan, D. L., Walker, R. J. and Bates, R. R.: The growth of fetal mouse skin in cell culture and transplantation to F1 mice. J. Invest. Dermatol. 55: 379-389, 1970.
4. Bates, R. R., Eaton, S. D. A., Morgan, D. L. and Yuspa, S. H.: Replication of DNA after binding of the carcinogen 7,12-dimethylbenz-[a]anthracene. JNCI 45: 1223-1228, 1970.
5. Yuspa, S. H. and Bates, R. R.: The binding of benz[a]anthracene to replicating DNA in cell culture. Proc. Soc. Exp. Biol. Med. 135: 732-734, 1970.
6. Burk, P. G., Yuspa, S. H., Lutzner, M. A. and Robbins, J. H.: Xeroderma pigmentosum and DNA repair. Lancet 1: 601, 1971.
7. Yuspa, S. H., Morgan, D. L. and Levy, J. A.: In vitro cultivation of a chemically induced epidermal carcinoma: Establishment of three cell lines and isolation of murine leukemia virus. JNCI 50: 1561-1570, 1973.
8. Yuspa, S. H., Sporn, M. and Dunlop, N: Retinyl acetate: Effect on cellular content of RNA in epidermis in cell culture in chemically defined medium. Science 182: 722-723, 1973.
9. Elias, P. M., Yuspa, S. H., Gullino, M., Morgan, D. L., Bates, R. R., and Lutzner, M. A.: In vitro neoplastic transformation of mouse skin cells: Morphology and ultrastructure of cells and tumors. J. Invest. Dermatol. 62: 569-581, 1974.
10. Yuspa, S. H. and Harris, C. C.: Altered differentiation of mouse epidermal cells treated with retinyl acetate in vitro. Exp. Cell Res. 86: 95-105, 1974.
11. De Luca, L. and Yuspa, S. H.: Altered glycoprotein synthesis in mouse epidermal cells treated with retinyl acetate in vitro. Exp. Cell Res. 86: 106-110, 1974.

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12. Yuspa, S. H., Hennings, H., Dermer, P. and Michael D.: Dimethyl sulfoxide-induced enhancement of 7,12-dimethyl-benz[a]anthracene metabolism and DNA binding in differentiating mouse epidermal cell culture. Cancer Res. 36: 947-951, 1976.
13. Elgjo, K., Hennings, H., Michael, D. and Yuspa, S. H.: Natural synchrony of newborn mouse epidermal cells in vitro. J. Invest. Dermatol. 66: 292-296, 1976.
14. Yuspa, S. H., Hennings, H. and Saffiotti, U.: Cutaneous chemical carcinogenesis: Past, present, future. J. Invest. Dermatol. 67: 199-208, 1976.
15. Edwards, W. D., Bates, R. R. and Yuspa, S. H.: Organ culture of rodent prostate: Effects of polyamines and testosterone. Invest. Urol. 14: 1-5, 1976.
16. Yuspa, S. H., Ben, T., Patterson, E., Michael, D., Elgjo, K. and Hennings, H.: Stimulated DNA synthesis in mouse epidermal cell cultures treated with 12-O-tetradecanoylphorbol-13-acetate. Cancer Res. 36: 4062-4068, 1976.
17. Yuspa, S. H., Lichti, U., Ben, T., Patterson, E., Hennings, H., Slaga, T. J., Colburn, N. and Kelsey, W.: Phorbol-esters stimulate DNA synthesis and ornithine decarboxylase activity in mouse epidermal cell cultures. Nature 262: 402-404, 1976.
18. Yuspa, S. H., Elgjo, K., Morse, M. A. and Wiebel, F. J.: Retinyl acetate modulation of cell growth kinetics and carcinogen-cellular interaction in mouse epidermal cell cultures. Chem. Biol. Interac. 16: 251-264, 1977.
19. Schwarz, J. A., Viaje, A., Slaga, T. J., Yuspa, S. H., Hennings, H. and Lichti, U.: Fluocinolone acetonide: A potent inhibitor of mouse skin tumor promotion and epidermal DNA synthesis. Chem. Biol. Interac. 17: 331-347, 1977.
20. Lichti, U., Slaga, T. J., Ben, T., Patterson, E., Hennings, H. and Yuspa, S. H.: Dissociation of tumor promoter stimulated ornithine decarboxylase activity and DNA synthesis in mouse epidermis in vivo and in vitro by fluocinolone acetonide, a tumor-promotion inhibitor. Proc. Natl. Acad. Sci. USA 74: 3908-3912, 1977.
21. Poirier, M. C., Yuspa, S. H., Weinstein, I. B. and Blobstein, S.: Detection of carcinogen-DNA adducts by radioimmunoassay. Nature 70: 186-188, 1977.
22. Slaga, T. J., Lichti, U., Hennings, H., Elgjo, K. and Yuspa, S. H.: Effects of tumor promoters and steroidal anti-inflammatory agents on skin of newborn mice in vivo and in vitro. JNCI 60: 425-431, 1978.

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23. Yuspa, S. H.: Mouse epidermal cell cultures as an *in vitro* model for the study of chemical carcinogenesis. In: In Vitro Carcinogenesis, Guide to the Literature, Recent Advances and Laboratory Procedures, Saffiotti U. and Autrup, H. (Eds.), (U.S. Government Printing Office, Washington, D. C., 1978) pp. 47-56.
24. Yuspa, S. H., Lichti, U., Hennings, H., Ben, T., Patterson, E. and Slaga, T. J.: Tumor promoter-stimulated proliferation in mouse epidermis *in vivo* and *in vitro*: Mediation by polyamines and inhibition by the antipromoter steroid flucinolone acetoneide. In: Mechanisms of Tumor Promotion and Cocarcinogenesis, Slaga, T. J., Sivak, A. and Boutwell, R.K. (Eds.), Raven Press, New York, 1978, pp. 245-255.
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29. Adamo, S., De Luca, L., Silverman-Jones, C. and Yuspa, S. H.: Mode of action of retinol: Involvement in glycosylation reactions in cultured mouse epidermal cells. J. Biol. Chem. 254: 3279-3287, 1979.
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37. Yuspa, S. H., Poirier, M. C., Harness, J. R., Olson, D. R. and Steinert, P.M.: Specific quantification of mouse and human keratin proteins by radioimmunoassay. Biochem. J. 187: 281-284, 1980.
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51. Lichti, U., Patterson, E., Hennings, H. and Yuspa, S. H.: Differential retinoic acid inhibition of ornithine decarboxylase induction by 12-O-tetradecanoylphorbol-13-acetate and by germicidal ultraviolet light. Cancer Res. 41: 49-54, 1981.

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61. Yuspa, S. H., Hennings, H., Kulesz-Martin, M. and Lichti, U.: The study of tumor promotion in a cell culture model for mouse skin - a tissue which exhibits multistage carcinogenesis in vivo. In: Cocarcinogenesis and Biological Effects of Tumor Promoters, Vol 7, Hecker, E., Fusenig, N. E., Kunz, W., Marks, F. and Thielmann, H. W. (Eds.), Raven Press, New York, 1982, pp. 217-230.
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72. Yuspa, S. H.: Chemical carcinogenesis related to the skin. Progress in Dermatology 15: No. 4, 1-10, 1981, 16: No. 1, 1-10, 1982.
73. Yuspa, S. H., Ben, T. and Steinert, P.: Retinoic acid induces transglutaminase activity but inhibits cornification of cultured epidermal cells. J. Biol. Chem. 257: 9906-9908, 1982.
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