BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITLE
Holick, Michael F.	Professor of Medicine, Physiology
eRA COMMONS USER NAME	and Biophysics
mfholick@bu.edu	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Seton Hall, New Jersey	BS	1968	Chemistry
University of Wisconsin, Madison	MS	1970	Biochemistry
University of Wisconsin, Madison	PhD	1971	Biochemistry
University of Wisconsin, Madison	MD	1976	Medicine
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A. Positions and Honors.

1971-75 Rese	arch Associate	e: Depart. o	of Biochemistry.	. Universit\	/ of Wisconsin.	. Madison. W	/1
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- 1975-76 Research Associate, Endocrine Unit, Massachusetts General Hospital, Boston, MA
- 1976-77 Intern in Medicine, Massachusetts General Hospital, Boston, MA
- 1976-78 Clinical Fellow in Medicine, Harvard Medical School, Boston, MA
- 1977-78 Assistant Resident in Medicine, Massachusetts General Hospital, Boston, MA
- 1978-80 Clinical Assistant in Medicine, Massachusetts General H6spital
- 1978-81 Assistant Professor of Medicine, Harvard Medical School
- 1979-81 Lecturer, Massachusetts Institute of Technology, Cambridge, MA
- 1980 Assistant in Medicine, Massachusetts General Hospital
- 1981-85 Associate Professor of Medicine, Harvard Medical School
- 1981-85 Associate Professor of Nutritional Biochemistry, Massachusetts Institute of Technology, Cambridge, MA
- 1985-87 Professor of Physiology, Medicine, and Nutrition Tufts University
- 1985-87 Director of Vitamin D and Bone Metabolism, Laboratory USDA/Nutrition Research Center on Aging at Tufts University, Boston, MA
- 1986-93 Chief, Endocrine Unit; Boston City Hospital, Boston, MA
- 1986- Director, General Clinical Research Center; Boston, University
- 1986- Director Osteoporosis Diagnostic Center, Boston University School of Medicine
- 1987-2004 Professor of Medicine, Physiology, and Dermatology, Boston University School of Medicine
- 1993-1999 Chief, Section of Endocrinology, Nutrition and Diabetes, Boston Medical Center
- 2004- Professor of Medicine, Physiology and Biophysics, Boston University School of Medicine
- 2004- Chief Scientific Officer, IGI, Buena, New Jersey

Awards

- 1972 Wilson S. Stone Memorial Award, M.D. Anderson Hospital, Houston, TX
- 1980 Fuller Albright Young Investigator Award
- 1981 Ten Outstanding Young Leaders Award
- 1983 Mead Johnson Award, American Institute of Nutrition
- 1985 Pisa Medalion for Excellence in Science, Pisa, Italy
- 1986 Merit Award, National Institutes of Health
- 1986 Stanley S. Bergan Award for excellence in the medical field, Seton Hall University
- 1989 Arnold-Rickle-Prize for research in UV radiation and vitamin D metabolism
- 1991 Osborne and Mendel Award, American Institute of Nutrition
- 1994 E.V. McCollum Award, American Society for Clinical Nutrition
- 2000 American Skin Association's Psoriasis Research Achievement Award

2002 American College of Nutrition's ACN Award

2003 Robert H Herman Memorial Award in Clinical Nutrition, American Society for Clinical Nutrition

2006 Annual General Clinical Research Centers Program Award for Excellence in Clinical Research. Washington, DC.

B. Publications.

- 1. Perez A, Chen TC, Turner A, Raab R, Bhawan J, Poche P, and **Holick MF**. Efficacy and safety topical calcitriol (1,25-dihydroxyvitamin D₃) for the treatment of psoriasis. Br. J. Dermatol. 1996;134:238-246.
- 2. Rolfdieter K, Buhring M, Hopfenmuller W, **Holick MF**, and Sharma AM. Ultraviolet B and blood pressure. Lancet. 1998:352:709-710.
- 3. Schwartz GG, Whitlatch LW, Chen TC, Lokeshwar BL, and **Holick MF**. Human prostate cells synthesize 1,25-dihydroxyvitamin D₃ from 25-hydroxyvitamin D₃. Cancer Epidemiology, Biomarkers & Prevention. 1998;7:391-395.
- 4. Tangpricha V. Flanagan JN, Whitlatch LW, Tseng CC, Chen TC, Holt RR, Lipkin MS, and **Holick MF**. 25-Hydroxyvitamin D-1□-hydroxylase in normal and malignant colon tissue. Lancet. 2001 May 26; 357:1673-1674.
- 5. Peters EMJ, Foitzik K, Paus R, Ray S, and **Holick MF**. A new strategy for modulating chemotherapy-induced alopecia, using PTH/PTHrP receptor agonist and antagonist. J. Invest. Dermatol. 2001:117:173-178.
- 6. Tangpricha V, Koutkia P, Rieke SM, Chen TC, Perez A, and **Holick MF**. Fortification of orange juice with vitamin D: A novel approach to enhance vitamin D nutritional health. Am J Clin Nutr. 2003;77:1478-83.
- 7. **Holick MF**, Chimeh FN, and Ray S. Topical PTH (1-34) is a novel, safe and effective treatment for psoriasis. Br J Dermatol. 2003;149:370-376.
- 8. **Holick MF**. Vitamin D: Importance in the prevention of cancers, type 1 diabetes, heart disease, and osteoporosis. Am J Clin Nutr. 2004;79:362-371.
- 9. **Holick MF**, Chimeh FN, and Ray S. Topical PTH (1-34) in a novel, safe and effective treatment for psoriasis. Br Jl Dermatol. 2003;149:370-376.
- 10. Sullivan SS, Cobb JL, Rosen CJ, **Holick MF**, Chen TC, Kimlin MG, and Parisi AV. Assessment of sun exposure in adolescent girls using activity diaries. Nutr. Res. 2003;23(5):631-644.
- 11. Moore C, Murphy MM, Keast DR, and **Holick MF**. Vitamin D intake in the United States. J Am Diet Assoc. 2004;104:980-983.
- 12. Durakovic C, Ray S, and **Holick MF**. Topical paricalcitol (19-nor-1□,25-dihydroxyvitamin D₂) is a novel, safe and effective treatment for plaque psoriasis: a pilot study. Brit J Dermatol. 2004;151:190-195.
- 13. Klein GL, Chen TC, **Holick MF**, Langman CB, Price H, Celis MM, and Herndon DN. Synthesis of vitamin D in skin after burns. The Lancet (Research Letters), 2004;363:291-292.
- 14. Tangpricha V, Turner A, Spina C, Decastro S, Chen T, and **Holick MF**. Tanning is associated with optimal vitamin D status (serum 25-hydroxyvitamin D concentration) and higher bone mineral density. Am J Clin Nutr. 2004; 80:1645-1649.
- 15. Sullivan S, Rosen C, Halteman W, Chen T, and **Holick MF**. Adolescent girls in Maine are at risk for vitamin D insufficiency. J Am Diet Assoc. 2005;105:971-974.
- 16. Safer JD, Crawford TM, and **Holick MF**. Topical thyroid hormone accelerates wound healing in mice. Endocrinol. 2005;146(10):4425-4430.
- 17. Spina C, Tangpricha V, Yao M, Zhou W, Wolfe MM, Maehr H, Uskokovic M, Adorini L, and **Holick MF**. Colon cancer and solar ultraviolet B radiation and prevention and treatment of colon cancer in mice with vitamin D and its Gemini analogs. J Steroid Biochem & Molecular Biol. 2005;97:111-120.
- 18. Moore CE, Murphy MM, and **Holick MF**. Vitamin D intakes by children and adults in the United States differ among ethnic groups. J Nutr. 2005;135:2478-2485.
- 19. **Holick MF**, Siris ES, Binkley N, Beard MK, Khas A, Katzer JT, Petruschke RA, Chen E, and de Papp AE. Prevalence of vitamin D inadequacy among postmenopausal North American women receiving osteoporosis therapy. J Clin Endocrinol Metab. 2005; 90:3215-3224.
- 20. Gorham ED, Carland CF, Garland FC, Grant WB, Mohr SB, Lipkin M, Newmark H, Giovannucci E, Wei M, and **Holick MF**. Vitamin D and prevention of colorectal cancer. J Steroid Biochem & Molecular Biol. 2005:97:179-194.
- 21. **Holick, M.F.** High prevalence of vitamin D inadequacy and implications for health. Mayo Clin. Proc. 81(3):353-373, 2006.

- 22. Holick, M.F. Resurrection of vitamin D deficiency and rickets. J Clin Invest 116;8: 2062-2072, 2006.
- 23. Istfan NW, Person KS, **Holick MF**, Chen TC. 1α ,25-Dihydroxyvitamin D and fish oil synergistically inhibit G_1/S -phase transition in prostate cancer cells. J Steroid Biochem Mol Biol. Jan 11, 2007.

C. Research Support.

Ongoing Research Support

MO 1RR00533 Antman (PI) 12/1/06-11/30/12 48%

NIH/NCRR

General Clinical Research Center

Dr. Holick is the Program Director for the General Clinical Research Center. The Clinical Research Center provides facilities, inpatient and outpatient, for clinical investigators associated with Boston University School of Medicine. The Center is located at Boston Medical Center and serves adult and pediatric subjects.

Role: Program Director

R40MC03620-01 Bauchner (PI) 9/1/04-8/31/07 (4% effort) 0.48 Calendar Months

HRSA/NIH

Seasonal and Racial Variation in Vitamin D Deficiency of Newborns and Their Mothers.

This study investigates the effect of race/ethnicity, skin color, lifestyle factors, and geography on vitamin D status and variance in newborns and their mothers.

Role: Co-Investigator

National Dairy Council 1/1/06-12/31/08 2%

Dietary Calcium and Vitamin D on Prostate Cancer

This study evaluates the role of vitamin D and calcium status on prostate tumor growth.

Role: Co-Investigator

1R41CA119802-01 Holick (PI) 8/31/06 - 8/31/07 10%

PTH (7-34) for Chemotherapy Alopecia in Breast Cancer

Role: Principal Investigator

Completed Research Support

Please list those completed in the last three years. No percent effort needed, just role on project.

New England Research Institute

R01-AG 20727

NIH (John McKinlay) 04/01/02-03/30/06

Co-Investigator

Bone Density in Older Men of Diverse Race/Ethnicity

The goal is to measure bone density and parameters of calcium and bone metabolism in 900 minority males living in Boston

Michael F. Holick, Ph.D., M.D.

2R01 AR36963 4/01/02-3/31/06

NIH/NIAMS

Principal Investigator Photobiology of Vitamin D

The goal of this research is to develop a better understanding about how vitamin D_3 is made and processed in the skin.

Apollo Light Systems, Inc.

1R4AG24061-0A1 (Henry Savage)

9/30/03-4/31/05

NIH (STTR)

Co-Investigator

Ultraviolet Light Devices for Vitamin D

The goal of this research is to determine the feasibility of developing ultraviolet B Light sources that can be used in a nursing home setting or in an individual home for promoting the cutaneous production of vitamin D_3 .