

Orr Barak, M.D., Ph.D.
Board Certified, Dermatology

Pennsylvania State Medical License, 2011-present
New Jersey State Medical License, 2011-present
Florida Medical License 2014-present

Education

Caris- Dx/Tufts Medical School, Boston, Massachusetts, July 2009-June 2010
Dermatopathology Fellow,
Mentor: Thomas Horn, MD

Boston University/Tufts Medical School, Boston, Massachusetts July 2006- June 2009
Dermatology Resident, Chief Resident 2008/2009

Crozer Chester Medical Center, Upland, Pennsylvania, June 2005- June 2006
Transitional Year Resident

University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania
1998- 2005
Medical Doctor Degree, Alpha Omega Alpha Inductee

University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania
2000- 2003
Philosophiae Doctor (Ph.D.), Department of Cell and Molecular Biology
Mentor: Ramin Sheikhattar, Ph.D.

Weizmann Institute of Science, Rehovot, Israel, 1996-1998
Master of Science with Honors
Mentor: Yosef Shaul, Ph.D.

University of California at Berkeley, Berkeley, California, 1992-1996
Bachelor of Arts, Biochemistry and Molecular Biology

Harvard University, Cambridge, Massachusetts, Summer 1991

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Employment

Dermatopathologist, Pennsylvania Specialty Pathology, LLC, 2021-Present.

Dermatologist/Dermatopathologist, Pennsylvania Dermatology Partners, August 2014-Present.

Dermatopathologist, Bryn Mawr Dermatology, June 2015-present.

Dermatologist/Dermatopathologist, Main Line Dermatology, 2011- 2015.

Dermatopathologist, Dermopath New England, July 2010-September 2011.

Assistant Professor of Dermatology, Tufts Medical Center, July 2009-September 2011.
Chairperson: Alice B. Gottlieb, MD PhD,

General Dermatologist, Dorchester House Community Health Center, 2007-2009
Medical Director: Patrick Egan, MD

Honors and Awards

Howard Koh Skin Oncology Award, 2007
Boston University Department of Dermatology

Alpha Omega Alpha Honors, 2005
University of Pennsylvania School of medicine

The Mary Ellis Bell Prize, 2004
University of Pennsylvania School of Medicine

The Wistar Institute Trainee Symposium Award, 2004
The Wistar Institute

NCI Cancer Predoctoral Training Grant, 2002-2003
The Wistar Institute

Franklin Fellowship for Combined Degree Students, 1998-2005
The University of Pennsylvania School of Medicine

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Prize of Distinction for Master of Science, 1998
The Weizmann Institute of Science

Graduate Fellowship Award, 1996-1998
The Weizmann Institute of Science

Undergraduate Freshman Award, 1992
University of California at Berkeley

Profe

Professional Societies

American Society for Dermatopathology (ASDP)

American Society for Dermatologic Surgery (ASDS)

American Academy of Dermatology (AAD)

Alpha Omega Alpha (AOA) Medical Society

Massachusetts Medical Society

Scientific Experience

January 2009 –*Caris Dx, Newton, Massachusetts*
Advisor: Thomas Horn, MD

Pathologic differentiation of melanoma in-situ from benign melanocytic hyperplasia in sun exposed skin has proven a major challenge. Determining the reliability of various fungal stains in diagnosing onychomycosis.

2007-2009, *Boston University, Boston, Massachusetts*
Advisor: Barbara Gilchrest, M.D.

The use of photodynamic therapy in the management of patients with Basal Cell Nevus Syndrome.

2001-2003, *The Wistar Institute, Philadelphia, Pennsylvania*
Advisor: Ramin Shiekhattar, Ph.D.

Doctoral Thesis: Characterization of the SNF2L chromatin remodeler and associated complexes

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1997-1998, *Weizmann Institute, Rehovot, Israel*

Advisor: Yosef Shaul, Ph.D.

Master Thesis: Novel Hepatitis B Virus X antigen interacting proteins

1995-1996, *The University of California at Berkeley, Berkeley, California*

Advisor: Marietta Dunaway, Ph.D.

Project title: Mechanism of insulator element regulation

1993, *The Hospital of the Good Samaritan, Los Angeles, California*

Advisor: Thomas Shook, M.D.

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Publications

Koch LH, Layton, CJ, Pilichowska M, Stadecker M, **Barak O**. "Paraneoplastic pemphigus and Castleman's disease in the setting of Herpes virus infection." *Pediatric Dermatology*, 2012 Sep-Oct.; 29(5):629-32.

Krathen M, Koch L, **Barak O**, Lizzul P. "Tender papule on the finger of a child-quiz case." *Archives of Dermatology*. 2011 Aug; 147(8):975, 980.

Levine D, Miller S, Al-Dawsari N, **Barak O**, Gottlieb AB. "Paraneoplastic dermatoses associated with gynecologic and breast malignancies" *Obstetrics and Gynecologic Survey*. 2010 Jul;65(7):455-61.

Barak O, Asarch A, Horn T. "PAS is optimal for diagnosing onychomycosis." *Journal of Cutaneous Pathology*. 2010 Oct;37(10):1038-40.

Asarch, A., **Barak, O.**, Loo, D.S., Gottlieb, A.B. "Th17 cells: a new therapeutic target in inflammatory dermatoses" *Journal of Dermatologic Treatment*, 2008;19(6):318-26.

Asarch, A., **Barak, O.**, Loo, D.S., Gottlieb, A.B. "Th17 cells: a new paradigm for cutaneous inflammation" *Journal of Dermatologic Treatment*, 2008;19(5):259-66.

Barak, O., Loo, D. "AN-2690-a novel antifungal for the topical treatment of onychomycosis" , *Curr Opin Investig Drugs*. 2007 Aug;8(8):662-8.

Treat, J.R., **Barak, O.**, James, W.D. "Non-pigmenting Confluent and Reticulated Papillomatosis" *Pediatric Dermatology*, 2006 Sep-Oct;23(5):497-9.

Barak, O., Treat, J.R., James, W.D. "Anti-microbial peptides: effectors of innate immunity in the Skin" *Advances in Dermatology* 2005;21:357-74.

Barak, O, Banting GS, Ames, T, Burnham A, Kardel M, Davidson C, Godbout R, McDermid HE, Shiekhattar R. "CECR2 forms a chromatin remodeling complex with SNF2L and is involved in neurulation", *Human Molecular Genetics*, 2005, Feb. 15; 14(4): 513-24.

Barak, O., Lazzaro, M., Shiekhattar, R., Picketts, D. "Characterization of a SNF2L dominant negative splice variant" *Journal of Biological Chemistry*, 279(43): 45130-8.

Tang J, Wu S, Liu H, Stratt R, **Barak, OG**, Shiekhattar R, Picketts DJ, Yang X. "A novel transcription regulatory complex containing Daxx and the ATR-X syndrome protein." *Journal of Biological Chemistry*. 2004 Feb 27.

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Barak, O. and Shiekhattar R. "Preparation and assays for mammalian ISWI complexes" *Methods in Enzymology*, 2003;377:389-401.

Barak, O., Lazzaro, M., Lane, W.S., Speicher, D., Picketts, D., Shiekhattar, R. "Isolation of human NURF: A regulator of *engrailed* gene expression and neuronal differentiation" *EMBO Journal* 2003, Nov 17; 22 (22), 6089-6100.

Hakimi MA, Bochar DA, Schmiesing JA, Dong Y, **Barak OG**, Speicher DW, Yokomori K, Shiekhattar R. "A chromatin remodelling complex that loads cohesin onto human chromosomes" *Nature* 2002 Aug 29;418(6901):994-8.

Shamay, M, **Barak O**, Shaul Y. "HBXAP, a novel PHD-finger protein, possesses transcription repression activity" *Genomics*, vol.79, number 4, April 2002 523-9.

Shamay M, **Barak O**, Doitsh G, Ben-Dor I, Shaul Y. "Hepatitis B Virus pX Interacts with HBXAP, a PHD Finger Protein to Coactivate Transcription" *Journal of Biological Chemistry*, 2002 Mar 22;277(12):9982-8.

Guenther MG, **Barak O**, Lazar MA. "The SMRT and N-CoR corepressors are activating cofactors for histone deacetylase 3", *Molecular and Cellular Biology* 2001 Sep;21(18):6091-101.

Barak, O., A. Aronheim, Shaul, Y. "HBV pX targets the HIV Tat Binding Protein-1" *Virology* 2001 Apr 25;283(1):110-20.

Speaking invitations

March 2014, Philadelphia, Pennsylvania

Introduction to Dermatopathology

Hospital of the University of Pennsylvania, Oral Surgery Rounds

November 2009, Boston, Massachusetts

Update Your Dermatology

2009/2010, Boston, Massachusetts

Tufts Medical Center Dermatology Grand Rounds

Dermatopathology discussant

October 2004, Bryn Mawr, Pennsylvania

University of Pennsylvania MD/PhD retreat

Orr Barak, M.D., Ph.D.

August 2003, *Philadelphia, Pennsylvania*

Undergraduate Summer Research Lecture Series

January 2003, *Big Sky, Montana*

Chromatin: Organizing the genome for patterns of gene expression in health and disease

September 1998, *San Diego, California*

HBV International Conference

Conference Abstracts

October 2009, *Chicago, Illinois*

American Society for Dermatopathology

"Erupting Multiple Giant Clear Cell Acanthomas-a case report and pathologic review"

"Histiocytoid Sweets Syndrome in a patient with AML: a case report and discussion"

May 2008, *Istanbul, Turkey*

EADV Spring Symposium

"Unusual complications of topical Imiquimod therapy on the sun-damaged skin: a retrospective case series"

February 2008, *San Antonio, Texas*

American Academy of Dermatology-Gross-Micro Session

"Multiple cutaneous and uterine leiomyomatosis syndrome"

October 2007, *Chicago, Illinois*

American Society for Dermatologic Surgery

"The Many Faces of Imiquimod Therapy"

September 2003, *Cold Spring Harbor, New York*

Mechanisms of Eukaryotic Transcription, Cold Spring Harbor Symposium

"Isolation of a novel human chromatin remodeling complex"

January 2003, *Big Sky, Montana*

Chromatin: Organizing the genome for patterns of gene expression

"Isolation of a novel human chromatin remodeling complex"

September 1998, *San Diego, California*

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HBV International Conference

“Tbp-1 is a novel target of the HBV pX Protein”