

## **BRIAN K. BONISH, MD, PHD**

### **BIOGRAPHICAL SKETCH**



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Dr. Brian Bonish is a board certified dermatologist with specific clinical interest in the dermatologic conditions of psoriasis, atopic dermatitis, and contact dermatitis. He joined the dermatology staff at Rush in July, 2008 as an assistant professor. Dr. Bonish holds a BS in Microbiology and an MS in Cellular & Molecular Biology from the University of Michigan in Ann Arbor. In 2003, he received his MD/PhD with distinction from Loyola University Chicago's Stritch School of Medicine in Maywood, IL. His postdoctoral work at Loyola Health System in Maywood, IL included an internship in the Department of Internal Medicine and a residency in the dermatology division, where he also served as chief resident.

Dr. Bonish has extensive research experience in dermatology and immunology beginning with his master's and doctoral theses, and continuing through his postdoctoral fellowship work at Loyola with Brian J. Nickoloff, MD, PhD and Kenneth Gordon, MD. He is a member of the American Academy of Dermatology, the Chicago Dermatology Society, the Society for Investigative Dermatology, the Illinois Dermatological Society, and the Dermatology Foundation. He has published numerous articles, abstracts, and book chapters.



**POST GRADUATE:**

<u>Dates Attended</u>	<u>Name and Location of Institution</u>	<u>Name of Program Director and Discipline</u>
2003-2004	Loyola University Health System, Maywood, IL	Internal Medicine Internship Kevin Simpson, MD
2004-2005	Loyola University Health System, Maywood, IL	Post-Doctoral Fellowship Kenneth Gordon, MD Brian J. Nickoloff, MD/PhD
2005-2007	Loyola University Health System, Maywood, IL	Dermatology Residency James Swan, MD

**APPOINTMENTS AND POSITIONS**

<u>Years Inclusive</u>	<u>Name and Location of Institution</u>	<u>Rank/Title or Position</u>
1985-1987	University of Michigan, Department of Physiology Ann Arbor, MI	Laboratory Assistant
1987-1988	University of Michigan, Department of Biochemistry Ann Arbor, MI	Research Assistant
1992-1994	University of Michigan, Department of Pathology Ann Arbor, MI	Senior Health Sciences Research Assistant II
1994-1995	University of Michigan, Cellular and Molecular Biology Program Ann Arbor, MI	Graduate Student
1996-2003	Loyola University Stritch School of Medicine, Department of Microbiology and Immunology, Maywood, IL	MD/PhD Student Advisor Brian J. Nickoloff, MD/PhD
2004-2005	Loyola University Stritch School of Medicine, Department of Medicine, Division of Dermatology & Pathology, Maywood, IL	Postdoctoral Research Kenneth Gordon, MD Brian J. Nickoloff, MD/PhD

## CERTIFICATION

<u>Certifying Board</u>	<u>Year</u>
United States Medical Licensing Exam	2005
American Board of Dermatology	2008

## PROFESSIONAL SOCIETIES

<u>Society</u>	<u>Year</u>
American Academy of Dermatology	2005-present
Chicago Dermatologic Society	2005-present
Society for Investigative Dermatology	2008-present
Illinois Dermatological Society	2008-present
Dermatology Foundation	2008-present

## EXTRACURRICULAR HONORS AND AWARDS

<u>Title, Institution and Location</u>	<u>Year(s)</u>
Summer Research Award Arthritis Foundation, Greater Chicago Chapter, Chicago, IL	1997
Chief Resident, Dermatology Loyola University Stritch School of Medicine Maywood, IL	2007-2008

## PUBLICATIONS

### Original Articles

1. **Bonish BK**, Foreman KE, Gutierrez-Steil C, and Nickoloff BJ. Phenotype and proliferation characteristics of cultured spindle-shaped cells obtained from normal human skin and lesions of dermatofibroma, Kaposi's sarcoma, and dermatofibrosarcoma protuberans: a comparison with fibroblast and endothelial cells of the dermis. *J Dermatol Sci*. 1997; 16:52-58.
2. Nickoloff BJ, Wrone-Smith T, **Bonish B**, and Porcelli SA. Response of murine and normal human skin to injection of allogeneic blood-derived psoriatic immunocytes: detection of T-cells expressing receptors typically present on natural killer cells, including CD94, CD158, and CD161. *Arch Dermatol*. 1999; 135:546-552.
3. **Bonish B**, Jullien D, Dutronc Y, Huang BB, Modlin R, Spada FM, Porcelli SA, and Nickoloff BJ. Overexpression of CD1d by keratinocytes in psoriasis and CD1d-dependent IFN-gamma production by NK T-cells. *J Immunol*. 2000; 165:4076-4085.
4. **Bonish B**, Nickoloff BJ, Huang BB, and Porcelli SA. Characterization of a T-cell line bearing natural killer receptors and capable of creating psoriasis in a SCID mouse model system. *J Dermatol Sci*. 2000; 24:212-225.
5. **Bonish B**, Huang BB, Chaturvedi V, Qin JZ, and Nickoloff BJ. Keratinocyte CDw60 expression is modulated by both a Th-1 type cytokine IFN-gamma and Th-2 cytokines IL-4 and IL-13: relevance to psoriasis. *J Invest Dermatol*. 2001; 116:305-312.
6. Curry J, Qin JZ, **Bonish B**, Carrick R, Bacon P, Panella J, Robinson J, and Nickoloff BJ. Innate immune-related receptors in normal and psoriatic skin. *Arch Pathol Lab Med*. 2004; 127(2):178-186.
7. Gordon KB, **Bonish BK**, Patel T, Leonardi CL, and Nickoloff BJ. The tumour necrosis factor- $\alpha$  inhibitor adalimumab rapidly reverses the decrease in epidermal Langerhans cell density in psoriatic plaques. *Br J Dermatol*. 2005; 153(5):945-953.
8. Boehncke WH, Schön MP, Giromolomi G, Bos JD, Thestrup-Pedersen K, Cavani A, Nestle F, **Bonish BK**, Campbell JJ, and Nickoloff BJ. Leukocyte extravasation as a target for anti-inflammatory therapy - Which molecule to choose. *Exp Dermatol*. 2005; 14(1):70.
9. Nickoloff BJ, **Bonish BK**, Marble DJ, Schriedel KA, DiPietro LA, Gordon KB, and Lingen MW. Lessons learned from psoriatic plaques concerning mechanisms of tissue repair, remodeling, and inflammation. *J Invest Dermatol Symp Proc*. 2006; 11:16-29.
10. **Bonish B**, Rashid RM, and Swan JJ. Etanercept responsive acrodermatitis continua of Hallopeau: is a pattern developing? *Drugs Dermatol*. 2006; 5(9):903-904.

## Abstracts

1. **Bonish B**, Huang B, Porcelli S, and Nickoloff BJ. Characterization of natural killer T-cell line capable of interacting with keratinocytes inducing psoriasis, *61st Annual Meeting of the Society for Investigative Dermatology*; 2000, Abstract 283 (Plenary Oral Presentation).
2. **Bonish BK**, Patel T, Hoffman R, Nickoloff BJ and Gordon KB. STAT3 is activated in psoriatic plaques and rapidly reduced following treatment with anti-TNF- $\alpha$  monoclonal antibody, adalimumab, *66th Annual Meeting of the Society for Investigative Dermatology*; 2005, Abstract 913.

## Continuing Medical Education Talks

1. **Bonish BK**. Immunopathogenesis of Psoriasis, Forum 557- Psoriasis. Gordon KB, (Course Director) *American Academy of Dermatology 63<sup>rd</sup> Annual Meeting*, New Orleans; 2005.

## Book Chapters

1. **Bonish BK** and Nickoloff BJ. Psoriasis and Psoriatic Arthritis: An Integrated Approach. Gordon KB and Ruderman EM (eds), Berlin: Springer; 2005:23-35.
2. **Bonish BK** and Gordon KB. Mild to Moderate Psoriasis. Koo JY, Lebwohl MG, Lee CS (eds), Taylor & Francis Ltd; 2006:183-194.