

CURRICULUM VITAE

Name: Guttman Emma, MD PHD

Academic Appointments

- July 2011- Assistant Professor, Department of Dermatology and the Immunology Institute, the Mount Sinai School of Medicine (MSSM), NY
- July 2011- Visiting Assistant Professor, Laboratory for Investigative Dermatology, The Rockefeller University, New York.
- July 2008- June 2011
Dermatology Resident, department of Dermatology, Weill Cornell Medical College, NY, NY
- June 2007-June 2008
Transitional year intern (PGY1) – department of internal medicine, Memorial Sloan Kettering Cancer center (MSKCC), NY.
- July 2005-June 2007
Instructor in Clinical Investigation, Laboratory for Investigative Dermatology (headed by Dr. James G. Krueger), The Rockefeller University, New York. The position involved clinical responsibilities and research projects involving psoriasis, atopic dermatitis and Kaposi's sarcoma.
- 2007- June 2011 Visiting Fellow, Laboratory for Investigative Dermatology, The Rockefeller University, New York.

Hospital Appointments

- July 2011- Department of Dermatology and Institute of Immunology, Mount Sinai School of Medicine, Director of Occupational and contact dermatitis, and the laboratory for inflammatory skin diseases, Assistant Professor

July 2005- The Rockefeller University Hospital, The Rockefeller University, NY
7/2008- 6/2011 Department of Dermatology Weill Cornell Medical College, NY, NY
Dermatology Resident (PGY2-PGY4)
6/2007-6/2008 Department of internal medicine, Memorial Sloan Kettering Cancer (MSKCC), NY
Transitional year intern (PGY1)
7/2007- 6/2011 Laboratory for Investigative Dermatology, The Rockefeller University,
New York, Visiting Fellow
7/2005-6/2007 Laboratory for Investigative Dermatology (headed by Dr. James G.
Krueger), The Rockefeller University, New York.
Instructor in Clinical Investigation
7/2000-12/2004 Department of Dermatology, Rambam Medical Center, Haifa, Israel.
Residency in Dermatology.
3/1997-3/1998 Sapir Medical Center, Meir, Kfar Saba, Israel
Rotating Internship

Education

1/2004-12/2010 Bar-Ilan University, Ramat Gan.
Studies for the degree: Doctor in philosophy (PhD). Obtained the PhD
degree in 2010. Mentor: Sarid Ronit, PhD, Department of Virology.
Thesis: Clinical and molecular aspects of classic Kaposi's sarcoma.
July 2005-June 2007 Instructor in Clinical Investigation, Laboratory for Investigative
Dermatology (headed by Dr. James G. Krueger), The Rockefeller
University, New York. The position involved clinical responsibilities and
research projects involving psoriasis, atopic dermatitis and Kaposi's
sarcoma. Mentor: James G. Krueger.
7/2000-12/2004 Postgraduate studies in dermatology and basic sciences, Sackler
Faculty of Medicine, Tel Aviv University, Tel Aviv, Israel (courses in
mycology, immunology, genetics, leprology, photodermatology, contact
dermatology, pediatric dermatology, cosmetic dermatology and
dermatology in internal medicine).

- 10/1998-10/2003 Department of Anatomy and Cell Biology, Bruce Rappaport
Faculty of Medicine, Technion-Israel Institute of Technology, Haifa.
Studies for the degree: Master in Science, M.Sc.
Thesis topic: "The epidemiology of Human Herpesvirus 8 (HHV-8)
transmission routes among Israeli patients with classic Kaposi's
sarcoma". Mentors: Silbermann Michael DDS PhD , Lin Shai MD, and
Friedman Rachel.
- 7/1998 Received certificate from the Educational Commission for Foreign
Medical Graduates after successfully passing its examinations.
- 6/1998 Received Israeli medical license.
- 10/1989-12/1996 Medical studies, Sackler School of Medicine,
Tel Aviv University, Israel.

Certifications

- 9/2011 Board Certified in Dermatology by the American Board of Dermatology, and Fellow of
The American Academy of dermatology (FAAD)
- 1/2005 Certification as a specialist in dermatology and venereology in Israel, by the Israeli
ministry of health and the Israeli society of dermatology.
- 6/1998 Awarded M.D. degree, Sackler School of Medicine, Tel Aviv University,
Tel Aviv, Israel.
- 1998 Received certificate from the Educational Commission for Foreign
Medical Graduates after successfully passing its examinations.
- 3/1998 Received Israeli medical license by the Israeli Ministry of Health.

Licensures

- 9/2011 License to practice dermatology in the US (FAAD)
- 12/2006 NY state license to practice medicine # 243821-1
- 3/1998 Israeli License to practice Medicine # 30272
- 1/2005 License as a specialist in dermatology and venereology, Israel # 21416

Awards and honors

- 2/2011 Young Investigator Award of the American Academy on elucidating the immune pathways of Atopic dermatitis, with important therapeutic implications, February 4th, New Orleans 2011, USA.
- 2/2011-6/2009 Dermatology Foundation physician-scientist career development award
3rd place in the NY Academy of Medicine research competition for dermatology residents.
- 10/2008 Montagna Symposium Travel Award to attend the Montagna Symposium on Inflammatory Skin Diseases, Portland, Oregon.
- 2/2004 Everett Fox award for best research at the Residents & Fellows Symposium at the 62nd Annual Meeting of the American Academy of Dermatology, February 2004, Washington, USA.
- 2004 The annual award for best research of the Israeli society of Dermatology, at the 28th national scientific convention of the Israeli Dermatological Society, June 2004, Eilat, Israel.
- 2004 Travel award of the International committee of the AAD, for attending the AAD meeting, Washington DC, 2004.
- 2005 Awarded the “best resident performance” after the Israeli Dermatological boards.
- 2004 Special prize of excellency in teaching dermatology to medical students, Bruce Rappaport Faculty of Medicine, Technion-Israel Institute of Technology and the department of dermatology, Rambam medical center, autumn 2004.
- 2001 Travel award to attend the meeting of the European society of Dermatopathology and Dermatology. Antalia, Turkey, 2001.
- 2001 Prize for best tutor of medical students, Bruce Rappaport Faculty of Medicine, Technion-Israel Institute of Technology, autumn 2001.

Membership in Professional Societies

Society for Investigative dermatology (July 2012- present)

American Academy of Dermatology (January 2006-present)

American Contact Dermatitis Society (July 2011-present)

Women Dermatology Society (WDS) (2009- present)

Israeli Dermatological Society (2005-present)

Invited Lectures

- 6/2010 Reversal Of Atopic Dermatitis with Narrow Band UVB Phototherapy. The annual meeting of the Israeli Academy of Dermatology, the Dead Sea, Israel.
- 10/2010 New Insights into the pathogenesis of atopic dermatitis. The Clinical Seminar series, the Rockefeller Hospital, The Rockefeller University.
- 10/2011 “New Insights on the pathogenesis of atopic dermatitis”. The Department of Dermatology, Vienna University Hospital, Austria.
- 11/2011 New Insights on the pathogenesis of atopic dermatitis. The Mount Sinai Immunology Institute, Mount Sinai Medical School, NY.
- 12/2011 “Making Patch tests relevant for our patients”. The Mount Sinai Winter Symposium, New York, New York, 12/2011.
- 3/2012 “Atopic Dermatitis – pathogenesis and therapeutic implications”. The skin structure and function course, the American academy of dermatology, San Diego, California.
- 5/2012 “Biomarkers in Atopic Dermatitis-are we there yet?”- The atopic dermatitis symposium, the annual meeting of the society for Investigative dermatology, Raleigh, North Carolina.
- 6/2012 “Seeking Relevance in Patch testing for Surgical patients”. Grand Rounds of the division of surgery, Mount Sinai School of Meicine, NY.
- 6/2012 Patch tests and occupational diseases. Grand Rounds of the Occupational Health Institute, Mount Sinai School of Medicine, NY.
- 7/2012 Evolving concepts on the pathogenesis of atopic dermatitis. The Baylor Institute for Immunology Research, and the department of Dermatology, Baylor College of Medicine.

Research Grants

Funding	Role in Project	Dates	Direct Costs
<u>Technion-Israel Institute of technology:</u> Human telomerase RNA component expression in Spitz nevi, common melanocytic nevi, and malignant melanomas.	Co-PI (together With Reuven Bergman)	2000-2003	\$5,000
Middle East Cancer Consortium, Bethesda, NIH: Investigation of the transmission routes of HHV-8 among the families of Kaposi's sarcoma patients.	Co-PI (together with Michael Silbermann and Reuven Bergman)	2001-2004	\$60,000
Israel Cancer Association :Investigation of the transmission routes of HHV-8 among the families of Kaposi's sarcoma patients.	Co-PI (together with Ronit Sarid and Bergman Reuven	2001-2003	\$10,000
Israel Ministry of Health, Keren Ezvonot : Identification of the characteristics of the different stages of KS disease and the factors	Co-Pi (together with Bergman Reuven and Sarid	2005	\$20,000

contributing to disease initiation and progression.	Ronit)		
<u>CTSA pilot project award, The Rockefeller University:</u> A study evaluating the immunomodulatory effects of Narrowband ultraviolet (NB- UVB) radiation in patients with atopic dermatitis.	PI	2009-2011	\$30,000
<u>Women's Dermatologic Society Research</u> A study evaluating the immunomodulatory effects of NB-UVB	PI	2010-2011	\$10,000
Dermatology Foundation Career Development Award	PI	2011-2013	55,000 per year

LIST OF PUBLICATION

Peer Reviewed Original Contributions

1. Guttman-Yassky E, Bergman R, Manov L, Sprecher E, Shaefer Y, and Kerner H. Human telomerase RNA component expression in Spitz nevi, common melanocytic nevi, and malignant melanomas. J. Cutan. Pathol. July 2002;29(6):341-6.
2. Guttman-Yassky E, Bar-Chana M, Yukelson A, Linn S, Friedman-Birnbaum R, Bergman R, Sarid R, Silbermann M. The epidemiology of Classic Kaposi's sarcoma in the Israeli Jewish population between 1960 and 1998. Br J Cancer 2003 November; 89(3):1657-60.
3. Guttman-Yassky E, Cohen A, Kra-Oz Z, Friedman-Birnbaum R, Sprecher E, Zaltzman N, Friedman E, Silbermann M, Rubin D, Linn S, Whitby D, Gideoni O, Pollack S, Bergman R, Sarid R. Familial clustering of classic Kaposi sarcoma. Journal of Infectious Diseases 2004; 189:2023-2026.
4. Guttman-Yassky E, Kra-Oz Z, Dubnov J, Friedman-Birnbaum R, Segal I, Zaltzman N, Roth T, Schwartz F, Linn S, Rozenman D, David M, Silberman M, Barchana M, Bergman R, Sarid R. Infection with Kaposi's sarcoma-associated herpesvirus among Families of classic Kaposi's sarcoma patients. Arch Dermatol 2005. 141(11):1429-34.
5. Guttman-Yassky E, Dubnov Y, Barchana M, Bergman R, Kra-Oz Z, Friedman-Birnbaum R, Sarid R. Classic Kaposi's sarcoma - which KSHV-seropositive individuals are at risk? Cancer 2006; 106(2): 413-9
6. Shahar E, Bergman R, Guttman-Yassky E, Pollack S. Treatment of severe chronic idiopathic urticaria with oral Mycophenolate Mofetil in patients not responding to antihistamines and/or corticosteroids. Int J Dermatol 2006; 45:1224-1227.
7. Guttman-Yassky E, Bergman R, Polack S, Shahar E. A new interpretation of the autologous serum skin test among a cohort of

- respiratory patients, chronic urticaria patients, and healthy subjects. *Eur J Dermatol Venereol* 2007; 21(1): 35-39.
8. Guttman-Yassky E, Abada R, Kra-Oz Z, Perlman A, Cohen A, Bergman R, Sarid R. Lack of a prognostic value for KSHV loads in PBMCs of classic Kaposi's sarcoma patients. *Diagn Microbiol Infect Dis* 2007; 57(4): 387-92.
 9. Kaporis H, Guttman-Yassky E, Lowes M, Haider A, Duculan-Fuentes J, Whynot J, Khatcherian A, Cardinale I, Krueger JG, Carucci JA. Human basal cell carcinoma develops in a dynamic immune environment, favoring immune suppression. *J Invest Dermatol* 2007; 127(10): 2391-8.
 10. Guttman-Yassky E, Lowes MA, Fuentes-Duculan J, Whynot J, Novitskaya I, Cardinale I, Haider A, Khatcherian A, Carucci JA, Bergman R, Krueger JG. Major differences in the inflammatory dendritic cells and their products distinguish atopic dermatitis from psoriasis. *J Allergy Clin Immunol* 2007; 19(5): 1210-7.
 11. Guttman-Yassky E, Vugmeyster Y, Lowes MA, Chamian F, Kikuchi T, Kagen M, Gilleaudeau P, Lee E, Hunte B, Howell K, Dummer W, Bodary SC, Krueger JG. Blockade of CD11a by Efalizumab in Psoriasis Patients Induces a Unique State of T-Cell Hyporesponsiveness. *J Invest Dermatol* 2008; 128(5):1182-91.
 12. Krueger JG, Ochs HD, Patel P, Gilkerson E, Guttman-Yassky E, Dummer W. Effect of Therapeutic Integrin (CD11a) Blockade with Efalizumab on Immune Responses to Model Antigens in Humans: Results of a Randomized, Single Blind Study. *J Invest Dermatol*. 2008; 128(11):2615-24.13.
 13. Nograles KE, Zaba LC, Guttman-Yassky E, Fuentes-Duculan J, Suarez-Farinas M, Cardinale I, Khatcherian A, Gonzalez J, Pierson KC, White TR, Pensabene C, Coats I, Novitskaya I, Lowes MA, Krueger JG. Th17 cytokines interleukin (IL)-17 and IL-22 modulate distinct inflammatory and keratinocyte-response pathways. *Br J Dermatol*. 2008; 159 (5): 1092-102.

14. Guttman-Yassky E, Lowes MA, Fuentes-Duculan J, Zaba LC, Cardinale I, Nograles KE, Khatcherian A, Novitskaya I, Carucci JA, Bergman R, and Krueger JG. Low expression of the IL-23/Th17 pathway in Atopic dermatitis compared to Psoriasis. *J Immunol*. 2008; 181(10):7420-7.
15. Nograles KE, Zaba LC, Shemer A, Fuentes-Duculan J, Cardinale I, Kikuchi T, Ramon M, Bergman R, Krueger JG, Guttman-Yassky E. IL-22 producing “T22” T-cells account for upregulated IL-22 in atopic dermatitis despite reduced IL-17-producing Th17 T-cells. *J Allergy Clin Immunol*. 2009; 123(6): 1244-52.
16. Bluth MJ, Zaba LC, Moussai D, Suárez-Fariñas M, Kaporis H, Fan L, Pierson KC, White TR, Pitts-Kiefer A, Fuentes-Duculan J, Guttman-Yassky E, Krueger JG, Lowes MA, Carucci JA. Myeloid Dendritic Cells from Human Cutaneous Squamous Cell Carcinoma Are Poor Stimulators of T-cell Proliferation. *J Invest Dermatol*. 2009 Oct;129:2451-62.
17. Zaba LC, Suárez-Fariñas M, Fuentes-Duculan J, Nograles KE, Guttman-Yassky E, Cardinale I, Lowes MA, Krueger JG. Effective treatment of psoriasis with etanercept is linked to suppression of IL-17 signaling, not immediate response TNF genes. *J Allergy Clin Immunol*. 2009 Nov;124(5):1022-10.e1-395.
18. Guttman-Yassky E, Suárez-Fariñas M, Chiricozz A, Nograles KE, Shemer A, Fuentes-Duculan J, Cardinale I, Peng L, Bergman R, Bowcock AM, Krueger JG. Broad defects in epidermal cornification in atopic dermatitis (AD) identified through genomic analysis. *J Allergy Clin Immunol* 2009 Dec; 124:1235-1244.
19. Knograles KE, Suarez-Farinas M, Shemer A, Fuentes-Duculan J, Chiricozzi A, Cardinale I, Zaba LC, Kikuchi T, Ramon M, Bergman R, Krueger JG, Guttman-Yassky E. Atopic Dermatitis (AD) keratinocytes exhibit normal Th17 cytokine responses. *J Allergy Clin Immunol* 2010. March 2010;125(3):744-6.
20. Guttman-Yassky E, Mita A, De Jonge M, Matthews L, McCarthy S, Iwata KK, Rowinsky EK, Krueger JG..Characterization of the cutaneous

pathology in non-small cell lung cancer (NSCLC) patients treated with the EGFR Tyrosine Kinase Inhibitor Erlotinib. *Eur J Cancer*. 2010 July;46:2010-9. Epub 2010 Jun 2.

21. Chiricozzi A*, Guttman-Yassky E*, Suarez-Farinas M, Nograles KE, Tian S, Chimenti S, Krueger JG. Integrative responses to IL-17 and TNF- α in human keratinocytes account for key inflammatory pathogenic circuits in psoriasis. *J Invest Dermatol*. 2011 Mar;131(3):677-87. Epub 2010 Nov 18.
22. Suarez-Farinas M, Tintle SJ, Shemer A, Chiricozzi A, Nograles KE, Cardinale I, Shenghui Duan, Bowcok AM, Krueger JG, Guttman-Yassky E. Non-lesional atopic dermatitis (AD) skin is characterized by broad terminal differentiation defects and variable immune abnormalities. *J Allergy Clin Immunol*. 2011;127:954-64.e1-4.
23. Kim BE, Howell MD, Guttman-Yassky E, Gilleaudeau PM, Cardinale IR, Boguniewicz M, Krueger JG, Leung DY. TNF- α downregulates filaggrin and loricrin through c-Jun N-terminal kinase: role for TNF- α antagonists to improve skin barrier. *J Invest Dermatol*. 2011 Jun;131(6):1272-9. Epub 2011 Feb 24. Erratum in: *J Invest Dermatol*. 2011.
24. Fujita H, Shemer A, Suarez-Farinas M, Tintle SJ, Cardinale I, Fuentes-Duculan J, Novitskaya I, Carucci JA, Krueger JG, Guttman-Yassky E. Lesional dendritic cells in atopic dermatitis and psoriasis exhibit parallel T-cell polarizing ability. *J Allergy Clin Immunol*. 2011 Sep;128(3):574-82.e1-12. Epub 2011 Jun 25.
25. Tintle SJ, Shemer A, Suarez-Farinas M, Fujita H, Cardinale I, Shenghui Duan, Bowcok AM, Krueger JG, Guttman-Yassky E. Reversal of atopic dermatitis with narrow-band UVB phototherapy and biomarkers of therapeutic response. *J Allergy Clin Immunol*. 2011 Sep;128(3):583-93.e1-4. Epub 2011 Jul 16.
26. Gittler JK, Shemer A, Suarez-Farinas M, Fuentes-Duculan J, Gulewicz KJ, Wang CQF, Mitsui H, Cardinale I, de Guzman Strong C, Krueger JG, Guttman-Yassky E. Progressive activation of Th2/Th22 cytokines and

selective epidermal proteins characterizes acute and chronic atopic dermatitis. J Allergy Clin Immunol 2012 In Press.

***J Allergy Clin Immunol has an impact factor of 11.003 and is rated number one in allergy and one of the top rated in immunology.**

Other Peer Review Publications:

1. Guttman-Yassky E, Bergman R. Psoriasis as an immunological disease: pathogenic and therapeutic aspects. Harefuah 138:692-698, April 2000 16;138(8):692-8 (Hebrew).
2. Guttman-Yassky E, Weltfriend S, Bergman R. Resolution of orofacial granulomatosis with amalgam removal. J Eur Acad Dermatol Venereol. 2003 May; 17(3):344-7.
3. Guttman-Yassky E, Bergman R, Cohen A, Sarid R. Absence of Kaposi's sarcoma-associated herpesvirus in lesions of mycosis fungoides in patients with concomitant Kaposi's sarcoma. J Am Acad Dermatol 2004; 51(S133-4).
4. Cohen A, Wolf DG, Guttman-Yassky E, Sarid R. Kaposi's Sarcoma-Associated Herpesvirus: Clinical, Diagnostic and Epidemiological Aspects. Crit Rev Clin Lab Sci. 2005; 42(2):101-53.
5. Guttman-Yassky E, Sarid R, Kra-Oz Z, Bergman R. Rapidly progressive Classic Kaposi's sarcoma in an adolescent: response to interferon alfa Therapy and Biologic correlates. Br J Dermatol 2006; 154(3): 555-7.
6. Guttman-Yassky E. Exogenous factors in Atopic dermatitis. Exog Dermatol 2004; 3:228-236.
7. Guttman-Yassky E, Cohen A, Bergman R, Sarid R. Absence of human herpesvirus 8 genome in colon adenocarcinoma in patients with concomitant classic Kaposi's Sarcoma and carcinoma of the colon. Int J Dermatol 2006. Int J Dermatol 2006; 45(7): 872-4.
8. Guttman-Yassky E and Krueger JG. Psoriasis: Evolution of pathogenic concepts and new therapies through phases of translational

research. Br J Dermatol 2007; 157(6): 1103-15.

9. Guttman-Yassky E. Atopic Dermatitis. Curr Probl Dermatol 2007; 35: 154-72.
10. Guttman-Yassky E, Bergman R, Pollack S, Shahar E. Chronic idiopathic urticaria: what is the meaning of skin reactivity to autologous serum? A response. Eur J Dermatol Venereol 2008; 22(1): 136.
11. Guttman-Yassky E, Nograles KE, Krueger JG. Contrasting pathogenesis of atopic dermatitis and psoriasis part I: clinical and pathologic concepts. 2011 May;127(5):1110-8. Epub 2011 Mar 8.
12. Guttman-Yassky E, Nograles KE, Krueger JG. Contrasting pathogenesis of atopic dermatitis and psoriasis--part II: Immune cell subsets and therapeutic concepts 2011 Jun;127(6):1420-32. Epub 2011 Mar 21.
13. Gittler JK, Krueger JG, Guttman-Yassky E. Atopic Dermatitis has intrinsic barrier and immune abnormalities: implications for contact dermatitis. J Allergy Clin Immunol 2012. In press.

Book Chapters

1. Bergman R, Guttman-Yassky E, Sarid R. Kaposi's Sarcoma. In Skin Cancers, Editors: McGraw Hill Press, 2007.
2. Guttman-Yassky E. Exogenous factors in atopic dermatitis. In exogenous dermatology, Editors: Karger Press, 2007.
3. Gulatti N, Guttman-Yassky E. Photoallergic and Phototoxic dermatitis. In Acneiform Eruptions in dermatology: a differential diagnosis. Editors: Springer Press. 2012.