

RACHEL ABUAV, MD (NUSSBAUM)
BOARD-CERTIFIED DERMATOLOGIST

EDUCATION:

Bachelor of Arts *with Departmental Honors*
Northwestern University
Biology/Physiology
1997

Medical Doctor *with Honors in Research*
Weill Medical College of Cornell University
2002

Internship--Department of Medicine
North Shore University Hospital
2003

Residency--Department of Dermatology
Johns Hopkins Medical Institutions
2007

LICENSURE:

Medical Board of California (Active)
License No. A99028
2007 - Present

Maryland Board of Physicians (Inactive)
License No. D0066420
2007 – 2011

North Carolina Medical Board (Inactive)
License No. 2005-01229
2005 - 2007

BOARD CERTIFICATION:

American Board of Dermatology
Aug 13, 2007 (initial certification)
Jan 1, 2018 (recertification)
Valid through Dec 31, 2027

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PROFESSIONAL EXPERIENCE:

Present Positions:

Private Practice Dermatologist, President
Rachel Abuav, M.D. Medical Corporation
Beverly Hills, CA
7/1/2022 - Present

Assistant Professor of Medicine and Pathology and Laboratory Medicine
Department of Medicine, Division of Dermatology,
Department of Pathology & Laboratory Medicine, Division of
Dermatopathology
Cedars-Sinai Medical Center, Los Angeles, CA
1/2011-Present

Previous Positions Held:

Dermatologist
Gary Waldman, MD, PA
Charlotte, NC
2005-2006

Dermatologist
Dermatology Group of the Carolinas
Concord, NC
2006

Instructor of Dermatology
Department of Dermatology
Johns Hopkins University
Baltimore, MD
2007 - 4/2008

Assistant Professor of Dermatology
Department of Dermatology
Johns Hopkins University
Baltimore, MD
2008 - 9/2010

Consultant Dermatologist
Olympia Medical Center
Los Angeles, CA
2011 - 2015

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Dermatologist
Cedars-Sinai Medical Group, Beverly Hills, CA
10/2010 - 7/2022

PROFESSIONAL ACTIVITIES:

Clinical Directorships:

- 2004-2005 **Coordinator**, *Resident Phototherapy Clinic*, Dept. of Dermatology, Johns Hopkins University
- 2004-2005;
2006-2007 **Coordinator**, *Resident Cosmetic Clinic*, Dept. of Dermatology, Johns Hopkins University
- 2007 **Course Director**, Dermatology Pathophysiology Course for the 2nd Year Class, Johns Hopkins School of Medicine
- 2007-2010 **Director**, *Dermatology Adult Inpatient Consultation Service/Resident Rotation*, Johns Hopkins Hospital
- 2007-2009 **Director**, *Dermatology Inpatient Rounds*, Dept. of Dermatology, Johns Hopkins Hospital
- 2007-2010 *Autoimmune and Connective Tissue Disease Clinic*, Johns Hopkins University, Outpatient Center
- 2007-2010 *Cutaneous Graft-vs-Host Disease Clinic*, Department of Dermatology, Johns Hopkins University, Outpatient Center
- 2007-2010 **Unit Physician**, *Extracorporeal Photochemotherapy for Graft-vs-Host Disease*, Department of Dermatology, Johns Hopkins University
- 2008-2010 **Director**, *Advanced Clinical Rotation in Medical and Inpatient Dermatology*, Johns Hopkins University School of Medicine
- 2008-2010 **Coordinator**, *Dermatology Elective for Department of Medicine Residents*, Johns Hopkins University School of Medicine
- 2008-2010 **Director**, *Dermatology Elective for Department of Medicine Rheumatology Fellows*, Johns Hopkins University School of Medicine

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- 2009 **Interim Director**, *Division of Dermatologic Surgery*, Department of Dermatology, Johns Hopkins University, Outpatient Center
- 2009-2010 **Co-Chair**, *Best of Consults*, Johns Hopkins Department of Dermatology
- 2016- 2022 **Director** of Photomedicine, Cedars-Sinai Medical Group, Department of Dermatology

Administrative Committees:

- 2008-2009 Dermatology Department **Physician Liaison**; Compliance Committee, Johns Hopkins University Clinical Practice Association
- 2008-2010 Dermatology Department **Physician Approver** for Remicade use; Pharmacy and Therapeutics Committee, Johns Hopkins Hospital
- 2008-2010 **Council Member** (Dermatology Representative); Medical School Council of Johns Hopkins University School of Medicine
- 2009-2010 **Director** of Safety, Quality, and Compliance, Department of Dermatology, Johns Hopkins University
- 2009-2010 **Physician Advisor** (Dermatology); Clinical Quality Improvement Committee, The Johns Hopkins Hospital
- 2009-2010 **Member** (Dermatology); Ambulatory Quality and Patient Safety Task Force, The Johns Hopkins Hospital
- 2009-2010 **Co-Chair**; Dermatology Professional Practice Evaluation Committee, The Johns Hopkins Hospital
- 2016 Injectables implementation Committee **Member**; Cedars-Sinai Medical Group
- 2020-2022 CSMG Investment Committee **Member**; Cedars-Sinai Medical Group
- 2021-2022 CSMG Physician Lead for Dermatology Coding; Cedars-Sinai Medical Group

Community Service:

- 2007-2009 Mentor to Laura McGirt, MD (Chief Resident in Dermatology)
- 2008 Mentor to Jonathan Feldstein, Medical Student Research Fellow
- 2009 Mentor to Nina Shojayi, Medical Student Research Fellow
- 2009 Mentor to Audrey Chan, Medical Student

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2013-Present Medical Advisory Board Member, Lupus LA
2014 Mentor to Daniel Chang, MD, Dermatology Resident
2015 Mentor to Janice Ma, Medical Student
2017-2018 Mentor to Julia Ayeroff, Pre-medical student
2022-2024 Mentor to Charlotte Bonthron, Pre-nursing student
2022-2023 Mentor to Jane Shohdy, Pre-medical student
2024-2025 Mentor to Valentina Angel, Pre-medical student
2024-2025 Mentor to Sarah Wang, Pre-medical student
2025-Present Mentor to Jaclyn Nguyen, Pre-medical student

Professional and Scholarly Societies:

2003 Fellow, American Academy of Dermatology
2003-2011 Member, Maryland Dermatologic Society
2005-2006 Member, Charlotte Dermatologic Society
2007-2010 Member, Women’s Dermatologic Society
2008-2011 Association of Professors of Dermatology
2008-2011 Dermatology Foundation
2009-2010 American Federation for Medical Research
2009-2011 Society for Investigative Dermatology
2009 Medical Dermatology Society
2010-Present Member, Los Angeles Metropolitan Dermatologic Society
2011 National Psoriasis Foundation
2011-Present International Pemphigus Pemphigoid Foundation Specialist Physician
2014 Fellow, Rheumatology Dermatology Society
2015 Photomedicine Society
2022-Present Member, Rheumatologic Dermatology Society

Editorial Services:

2008-2010 Lupus Foundation. Grant Reviewer
2009-2010 *Rheumatology*. Journal Peer Reviewer
2009-2010 *Photodermatology, Photoimmunology & Photomedicine*. Journal Peer Reviewer
2009-2010 *Pediatric Dermatology*. Journal Peer Reviewer

HONORS AND SPECIAL AWARDS:

1993-1995 UCLA College Honors Program
1993-1994 UCLA Dean’s List
1996 Northwestern University Dean’s List
1996 Macey Fellowship for Summer Research at Northwestern University
2000-2001 Howard Hughes Medical Institute—Medical Student Research Fellow

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- 2007 *Dermatology Appreciation Award: In recognition of Innovation and Dedication to the Dermatology Consult Service.*” Presented by the Dermatology Residents of Johns Hopkins
- 2010-2021 Cedars-Sinai Medical Center Circle of Friends
- 2020-2025 L.A. Top Doctors (Los Angeles Magazine)

RESEARCH GRANTS AND FELLOWSHIPS RECEIVED:

- 1996 **Photoperiodic Effects on GnRH Content and the GnRH-Immunoreactive Neuronal System of Male Siberian Hamsters.** Northwestern University. NSF Center for Biological Timing/Center for Circadian Biology and Medicine. Mentors: Fred W. Turek, Ph.D and Daniel J. Bernard, Ph.D. Role: Research fellow.
- 1996-1997 **Maternal Transfer of Photoperiodic Information in Siberian Hamsters.** Northwestern University. NSF Center for Biological Timing/Center for Circadian Biology and Medicine. Mentors: Fred W. Turek, Ph.D. and Teresa H. Horton, Ph.D. Role: Research Fellow and Senior Honors Thesis.
- 1998 **Malnutrition in Congenital HIV: Effects of Supplementation.** Weill Medical College of Cornell University. Department of Pediatrics. Mentor: Susanna Cunningham-Rundles, Ph.D. Role: Summer Research Fellow.
- 2000-2001 **Molecular Immunomodulatory Effects of anti-CD11a antibody in Patients with Psoriasis.** The Rockefeller University. Department of Investigative Dermatology. Mentor: James G. Krueger, M.D., Ph.D. Role: **Howard Hughes Medical Institute Medical Student Research Fellow.**
- 2007-2010 **Johns Hopkins Dermatology Consultation Database.** Role: Principal Investigator.
- 2009-2010 **Phototherapy for Graft-vs-Host Disease of the Skin.** Role: Principal Investigator.
- 2007-2010 “A Continuation Trial of Oral Vorinostat for Advanced Cancers”
Principal Investigator
ID #: J0597
Sponsor: Merck
Total Direct Cost: \$14,089.16
1% effort
- 2008-2010 Ultraviolet A1 (UVA1) therapy for localized scleroderma and cutaneous T-cell lymphoma”

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Principal Investigator

Sponsor: The Women's Board of the Johns Hopkins Hospital
Total Direct Cost: \$113,500.00

2018-2020 TRIM21 AND ULK—Potential Role in Cutaneous Lupus Erythematosus (CLE)

Co-Principal Investigator

Sponsor: The Leon Fine Award in Translational Science
Total Direct Cost: \$100,000

1% effort

LECTURES AND PRESENTATIONS:

Classroom Instruction:

“Acne and Rosacea.” Dermatology Pathophysiology Course for the 2nd Year Medical School Class; **Lecturer**; Johns Hopkins University School of Medicine. 2006-2009

“Basic Dermatopathology.” Dermatology Pathophysiology Course for the 2nd Year Medical School Class; **Small Group Leader**; Johns Hopkins University School of Medicine. 2006-2008

“Description of Skin Lesions.” Dermatology Pathophysiology Course for the 2nd Year Medical School Class; **Small Group Leader**; Johns Hopkins University School of Medicine. 2006-2008

“Dermatology Clinical Unknowns.” **Monthly Lecturer**; Department of Dermatology, Johns Hopkins University. 2007-2010

“Cutaneous Autoimmune Bullous Diseases.” Dermatology Pathophysiology Course for the 2nd Year Medical School Class; **Lecturer**; Johns Hopkins University School of Medicine. Nov 2007

“Graft vs. Host Disease: An Introduction for the Dermatologist.” Dermatology Resident Faculty Lecture Series; **Lecturer**; Department of Dermatology, Johns Hopkins University Jan 2008

CME Instruction:

“Acne, Androgens, and Insulin Resistance.” University of Miami Dermatology Grand Rounds, **Invited Lecturer**, Miami, FL. Mar 2007

“Acne, Androgens, and Insulin Resistance.” Johns Hopkins Dermatology Grand Rounds, **Invited Lecturer**, Baltimore, MD. May 2007

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“Not Just Skin Deep: New Concepts & Approaches to Acne & Actinic Keratosis.” Program Director, American Academy of Dermatology, Johns Hopkins Medicine Continuing Medical Education, New York, NY. Aug 3, 2007

“Sweet Syndrome, Histiocyte Predominant.” Van der Kooi K, Junkins-Hopkins JM, Abuav R. American Academy of Dermatology, Gross and Microscopic Symposium. Mar 7, 2009

“Pompholyx Associated with IVIG Therapy.” Gerstenblith MR, Junkins-Hopkins JM, Abuav R. American Academy of Dermatology, Gross and Microscopic Symposium. Mar 7, 2009

“Dermatology in the Inpatient Setting.” 54th Annual Philip A. Tumulty Topics in Clinical Medicine. Invited Lecturer, Baltimore, MD. May 5, 2009

“Dermatology in the Inpatient Setting.” Harbor Hospital, Department of Medicine Grand Rounds, Invited Lecturer, Baltimore, MD. Oct 16, 2009

“Dermatology in the Inpatient Setting.” 55th Annual Philip A. Tumulty Topics in Clinical Medicine. Invited Lecturer, Baltimore, MD. May 4, 2010

“Dermatology Grab Bag: Defining Interface Dermatitis & Bullous Systemic Lupus Erythematosus.” Sixth Annual Advances in the Diagnosis and Treatment of the Rheumatic Diseases. Invited Lecturer, Baltimore, MD. June 5, 2010

“Dermatologic Manifestations of Rheumatic Disease: When Is It More than a Rash?” The James R. Klinenberg, MD Symposium on Rheumatic Diseases: Hot Topics in Rheumatology 2018. Invited Lecturer, Los Angeles, CA. Feb 24, 2018

“Setting Up a Direct-Pay Dermatology Practice.” California Society of Dermatology and Dermatologic Surgery Fall Symposium 2024. Invited Lecturer, San Diego, CA. Sep 6, 2024

“Setting Up a Direct-Pay Dermatology Practice.” The Practice of Dermatology, The Johns Hopkins Hospital, Department of Dermatology. Invited Lecturer, Baltimore, MD. Oct 7, 2024

Invited Talks, Panels:

“The Effects of anti-CD11a Antibody on Inflammatory Gene Expression in Psoriasis Patients.” Presentation, Howard Hughes Medical Institute. May 2001

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“Congenital Non-Bullous Ichthyosiform Erythroderma.” Case Presentation, Maryland Dermatologic Society. Nov 2004

“Sclerosing Lipogranuloma.” Case Presentation, Maryland Dermatologic Society. Apr 2004

“Atypical Pyoderma Gangrenosum.” Case Presentation, Infectious Disease Grand Rounds, Johns Hopkins Hospital. Oct 2006

“Pyoderma Vegetans of the Eyelid due to HSV-2.” Case Presentation, Ophthalmology Grand Rounds, Johns Hopkins Hospital. Oct 2006

“Interstitial Granulomatous Drug Reaction from G-CSF.” Case Presentation, Maryland Dermatologic Society. Nov 2006

“Granulomatous Drug Reaction to Enalapril.” Case Presentation, Maryland Dermatologic Society. Nov 2006

“Lupus and Major Organ Complications.” Panelist, *Latest on Lupus 2013 Patient Conference*; Lupus LA, Los Angeles, CA. Dec 7, 2013

“Updates on Skin Manifestations of SLE.” Invited Lecturer, *Latest on Lupus Patient Conference*; Lupus LA, Irvine, CA. June 28, 2014

“Scleroderma Conference.” Invited Expert Panelist, *Updates in Scleroderma*; Scleroderma Foundation, Los Angeles, CA. April 16, 2016

“Dermatology in the Inpatient Setting: A Day in the Life of the On-Call Dermatologist.” *Dermatology Lecture Series*, Department of Medicine Residents, Cedars-Sinai Medical Center. Feb 14, 2018

“Alopecia.” *Department of Medicine Pod Lecture Series*, Access Medical Group of Cedars-Sinai Medical Group, Marina Del Rey, CA. Feb 27, 2018

“Lupus and the Skin.” Invited Lecturer, *Latest on Lupus Patient Conference*; Lupus LA, UCLA, Los Angeles, CA. Sep 22, 2018

“Hair Loss and Sun Protection in Lupus: Expert Q&A.” Invited Lecturer, Lupus LA, Online, https://www.youtube.com/watch?v=l_Yae-slZq4&t=275s Feb 1, 2021

“Direct Pay Dermatology Practice: Expert Panel.” Invited Panelist, Orange County Dermatologic Society Meeting. Costa Mesa, CA. Nov 7, 2024

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PUBLICATIONS/BIBLIOGRAPHY:

RESEARCH PAPERS (PEER REVIEWED AND NON-PEER REVIEWED):

A. RESEARCH PAPERS—PEER REVIEWED

1. Bernard DJ, **Abuav-Nussbaum R**, Horton TH, Turek FW. Photoperiodic effects of gonadotropin-releasing hormone (GnRH) content and the GnRH-immunoreactive neuronal system of male Siberian hamsters. *Biology of Reproduction*. 1999. **60**: 272-276. PMID 9915990
2. Cunningham-Rundles S, Ahrn S, **Abuav-Nussbaum R**, Dnistrian A. Development of immunocompetence: role of micronutrients and microorganisms. *Nutr Rev*. 2002. **60**: S68-72. PMID 12035862
3. Wittkowski KM, Lee E, **Nussbaum R**, Chamian FN, Krueger JG. Combining several ordinal measures in clinical studies. *Stat Med*. 2004; **23(10)**: 1579-92. PMID 15122738
4. Lowes MA, Chaiman F, Abello MV, Fuentes-Dulculan J, Lin SL, **Nussbaum R**, Novitskaya I, Carbonaro H, Cardinale I, Kikuchi T, Gilleaudeau P, Sullivan-Whalen M, Wittkowski KM, Papp K, Garovoy M, Dummer W, Steinman RM, Krueger JG. Increase in TNF- α and inducible nitric oxide synthase-expressing dendritic cells in psoriasis and reduction with efalizumab (anti-CD11a). *Proc Natl Acad Sci USA*. 2005; **102(52)**: 19057-62. PMID 16380428
5. Wu JM, Mamelak AJ, **Nussbaum R**, McElgunn PS. Botulinum toxin A in the treatment of chromhidrosis. *Dermatol Surg*. 2005; **31**: 963-5. PMID 16042945
6. Cowan DA, Sands MB, Rabizadeh SM, Amos CS, Ford C, **Nussbaum R**, Stein D, Liegeois NJ. Electronic templates versus dictation for the completion of Mohs micrographic surgery operative notes. *Dermatol Surg*. 2007; **33(5)**:588-95. PMID 17451582
7. Duvic M, Olsen EA, Breneman D, Pacheco TR, Parker S, Vonderheid EC, **Abuav R**, Ricker JL, Rizvi S, Chen C, Boileau K, Gunchenko A, Sanz-Rodriguez C, Geskin LJ. Evaluation of the long-term tolerability and clinical benefit of vorinostat in patients with advanced cutaneous T-cell lymphoma. *Clinical Lymphoma Myeloma*. 2009; **9(6)**:412-6. PMID 19951879
8. Le EN, McGirt LY, **Abuav R**. Gigantomastia and Autoimmunity: A Case Report. *Lupus*. 2009; **18(11)**:1015-8. PMID 19762405

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9. Skupsky H, **Abuav R**, High W, Pass C, Goldenberg G. Development of lichen sclerosus et atrophicus while receiving a therapeutic dose of imatinib mesylate for chronic myelogenous leukemia. *J Cutan Pathol*. 2009; **39(8)**:877-80. PMID 19703239
10. Keenan BP, **Abuav R**. Acneiform eruption in a patient receiving bevacizumab for glioblastoma multiforme. *Arch Dermatol*. 2010; **146(5)**:577. PMID 20479324
11. Tabibian JH, Gerstenblith MR, Tedford RJ, Junkins-Hopkins JM, **Abuav R**. Necrolytic acral erythema as a cutaneous marker of hepatitis C: Report of two cases and review. *Dig Dis Sci*. 2010; **55(10)**:2735-43. PMID 20499177
12. Le EN, **Abuav R**. Lipodystrophy in association with adult-onset dermatomyositis sine myositis: A rare manifestation. *J Amer Acad Dermatol*. 2010; **63(2)**: e46-8. PMID 20633786
13. Feldstein JV, Bolanos-Meade J, Anders VL, **Abuav R**. Narrowband-ultraviolet B (NB-UVB) phototherapy for the treatment of steroid-refractory and steroid-dependent acute graft-vs-host disease of the skin. *J Amer Acad Dermatol*. 2011; **65(4)**:733-8. PMID 21616558
14. Gerstenblith MR, Antony AK, Junkins-Hopkins J, **Abuav R**. Pompholyx and eczematous reactions associated with intravenous immunoglobulins. *J Amer Acad Dermatol*. 2011; **66(2)**: 312-6. PMID 21601310
15. Cunningham-Rundles S, Ahrne S, Johann-Liang R, **Abuav R**, Dunn-Navarra AM, Grasseley C, Bengmark S, Cervia JS. Effects of probiotic bacteria on microbial host defense, growth, and immune function in human immunodeficiency virus type-1 infection. *Nutrients*. 2011; **3(12)**: 1042-70. PMID 22292110
16. Mu EW, **Abuav R**, Cohen BA. Facial lichen striatus in children: retracing the lines of Blaschko. *Pediatr Dermatol*. 2013; **30(3)**: 364-6. PMID 22958113
17. Choi AW, **Abuav R**, Rabizadeh SM, Ansari R, Marsch AF. Recalcitrant and severe pyoderma gangrenosum attributable to levamisole-adulterated cocaine and treated successfully with oral tofacitinib. *J Amer Acad Dermatol*. 2020; **6(9)**: 939-941. PMID 32923571
18. Concha JSS, Pena S, Gaffney RG, et al. Developing classification criteria for skin-predominant dermatomyositis: the Delphi process. *Br J Dermatol*. 2020; **182(2)**: 410-417. PMID 31049930. *Member of Delphi group*

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19. **Abuav R**, Shon W. Are sunscreen particles involved in frontal fibrosing alopecia?-A TEM-EDXS analysis on formalin-fixed paraffin-embedded alopecia biopsies (pilot study). *Am J Dermatopathol* 2022; **44(12)**: e135-136. PMID 36197059
 20. Ospina Cardona D, Rodriguez-Pinto I, Iosim S, Bonet N, Mensa-Vilaro A, Wong MK, Ho G, Tormo M, Yagüe J, Shon W, Wallace DJ, Casals F, Beck DB, **Abuav R**, Arostegui JI. Description of a novel splice site variant in UBA1 gene causing VEXAS syndrome. *Rheumatology* 2024; **63(10)**: 2897-2902. PMID: 38552317
 21. Tumurkhuu G, Perri G, Moore R, Huo L, Naveen Kumar A, Ainsworth R, Oliver T, De Los Santos G, Gibb D, Carriere J, Yu JM, **Abuav R**, Forbess L, Wallace DJ, Ishimori M, Shon W, Stehlik C, Jefferies CA. Loss of tripartite motif-containing protein 21 and UVB-induced systemic inflammation by regulating DNA-sensing pathways. *Arthritis Rheumatol* 2025; Online ahead of print. PMID: 40524344
- B. RESEARCH PAPERS – PEER REVIEWED (IN PRESS): none
- C. RESEARCH PAPERS—PEER REVIEWED (SUBMITTED): - none
- D. RESEARCH PAPERS (NON-PEER REVIEWED):
1. **Abuav R**, McGirt LY, Kazin RA. Cryptococcal panniculitis in a patient 11 years after cardiac transplantation. *Cutis*. 2010; **85(6)**: 303-6. PMID 20666191
- E. RESEARCH PAPERS (NON-PEER REVIEWED) (IN PRESS): none
- F. RESEARCH PAPERS (NON-PEER REVIEWED) (SUBMITTED): none

CHAPTERS:

- A. CHAPTERS:
1. Petri M, **Abuav R**, Boumpas D, Goldblatt F, Isenberg D, Anhalt G, Werth V, Looney J. (2009). Chapter 13: Systemic Lupus Erythematosus. In J.H. Stone (Ed.), *A Clinician’s Pearls and Myths in Rheumatology*. (pp. 131-159) London: Springer London. ISBN 978-1-84800-933-2 (Print) 978-1-84800-934-9 (Online)
 2. **Abuav R**, Lazarus G. (2010). Skin. In S. Durso, L. Bowker, J. Prince, & S. Smith (Eds.), *Oxford American Handbook in Geriatrics*. Cary, NC: Oxford University Press USA. ISBN13: 9780195373189; ISBN10: 0195373189
- B. CHAPTERS (IN PRESS): none

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LETTERS TO THE EDITOR: none

REVIEWS:

1. **Nussbaum R**, Krueger JG. Treatment of inflammatory dermatoses with novel biologic agents: a primer. *Adv Dermatol.* 2002; **18**: 45-89. PMID 12528402
2. **Nussbaum R**, Benedetto AV. Cosmetic aspects of pregnancy. *Clin Dermatol.* 2006; **24(2)**: 133-141. PMID 16487888
3. **Nussbaum R**. Kahan S, Ashar B (eds). In a Page--Medicine. Lippincott, Williams & Wilkins, 2008.

EDITORIALS:

1. **Nussbaum R**, Benedetto AV, Lehrer MS. Optimizing anesthesia in cosmetic fillers. *SkinMed.* 2006; **5(1)**: 8-9. PMID 16522975
2. Cohen BA and **Nussbaum R**. Not Just Skin Deep: New Concepts and Approaches to Acne and Actinic Keratosis. Supplement to *Skin Aging.* Nov 2007

PAPERS IN PREPARATION (RESEARCH COMPLETED): none

ABSTRACTS: none

OTHER MEDIA:

1. Contributing Author, *Dermatology Image Atlas*, dermatlas.org
<http://dermatlas.med.jhmi.edu/derm/> 2003-2010
2. Contributing Author, *EMIMinuteConsult.com*, Dermatology Chapter.
https://em1minuteconsult.com/?page_id=27 2021-2023