

## **CURRICULUM VITAE**

### **January 2023**

**Name:** Elma D. Baron, MD

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#### **POSITIONS/TITLES**

Professor, Dermatology, Case Western Reserve University (July 2014-)

Chief of Dermatology, VA Medical Center, Cleveland, Ohio (July 2005-)

Attending Medical Staff, Dermatology, University Hospitals of Cleveland, Ohio (Dec. 2004-December 2018)

Clinical Program Director of VISN 10 Teledermatology (October 2012 -)

#### **FORMER POSITIONS HELD**

Director, Skin Study Center, University Hospitals Research Institute/Case Western Reserve University, Cleveland, OH (July 2003-2017 )

Director of Photomedicine and Photopheresis, University Hospitals Cleveland (July 2004-2017)

Director of Dermatology for Primary Care Training, Firm B Medicine Clinic, VA Medical Center, Cleveland, OH (July 1, 2001 –June 2005 )

Acting Director, Skin Study Center, University Hospitals Research Institute, Cleveland, OH (January 2003-June 2003)

Instructor in Dermatology, Case Western Reserve University, Cleveland, OH (July 2003-June 2004)

Assistant Professor in Dermatology, Case Western Reserve University, Cleveland, OH (July 2004-June 2009)

Assistant Chief in Dermatology, VA Medical Center, Cleveland, Ohio (Dec. 2004-June 2005)

Associate Professor, Dermatology, Case Western Reserve Univ (July 2009-June 2014)

#### **MEDICAL EDUCATION**

Institution: University of the Philippines, College of Medicine, Manila, Philippines

Name of Program: Integrated Liberal Arts and Medicine – accelerated 7-year Medicine program

Years Attended: 1985-1992

Degrees earned: Associate in Arts (1987), BS Basic Medical Sciences (1989), Doctor of Medicine (1992)

#### **POSTGRADUATE TRAINING**

1. Residency in Dermatology from January 1993- December 1995, Philippine General Hospital/University of the Philippines, Manila.

- Chief Resident:* Section of Dermatology from January 1- December 30, 1995.
2. Clinical Fellowship in Photomedicine – July 1, 1998 – June 30, 1999,  
Department of Dermatology, Massachusetts General Hospital/Harvard Medical School,  
Boston, MA
  3. Research Fellowship in Photoimmunology – November 1999 – June 2003  
Skin Study Center, Department of Dermatology, University Hospitals of Cleveland  
Research Institute/Case Western Reserve University, Cleveland, OH
  4. Clinical Fellowship in Dermatology and Photobiology – July 2001- June 2003  
Department of Dermatology, University Hospitals of Cleveland, Cleveland, OH
  5. Internship in Internal Medicine – July 2002 – June 2003  
Department of Internal Medicine, University Hospitals of Cleveland, Cleveland, OH
  6. Certificate Course in The Advancing Manager, CWRU Weatherhead School of  
Management, June 2012

### **BOARD EXAMINATIONS AND LICENSURE**

- Board of Medicine, Philippines – August 1992  
Philippine Board of Dermatology – April 1996: **ranked #1 nationally**  
US Medical Licensure Exams: Step 1 – June 1998  
Step 2 – March 1997  
Step 3 – December 2003  
ECFMG English Test – March 1997  
TOEFL/Test of Spoken English – April 2004  
Ohio Medical License 84878, July 1, 2004 – current  
American Heart Association Basic Life Support - current

### **PUBLICATIONS: Original Studies**

1. Taylor CR and **Baron ED**. Hand and foot PUVA soaks, an audit of the Massachusetts General Hospital's experience from 1994 to 1998. *Photodermatol, Photoimmunol, Photomed* 1999; 15 (5): 188-192.
2. **Baron ED**, Stern RS, Taylor CR. Correlating skin type with minimum erythema dose. *Arch Dermatol* 1999; 135 (10):1278-1279.
3. **Baron ED**, Heeger PS, Hricik DE, Schulak JA, Tary-Lehmann M, Stevens SR. Immunomodulatory effect of extracorporeal photopheresis after successful treatment of resistant renal allograft rejection. *Photodermatol, Photoimmunol, Photomed* 2001; 17 (2):79-82.
4. **Baron ED**, Barzilai D, Johnston G, Kawashima M, Takigawa M, Nakagawa H, Graham-Brown RAC, Stevens SR. Atopic dermatitis management: comparing the treatment patterns of dermatologists in Japan, USA and UK. *Br J Dermatol* 2002;147:710-715.
5. Stevens SR, **Baron ED**, Masten S, Cooper KD. Circulating CD4+CD7- lymphocyte burden and rapidity of response: predictors of outcome in the treatment of Sezary syndrome and Erythrodermic Mycosis Fungoides with extracorporeal photopheresis. *Arch Dermatol* 2002; 138: 1347-1350.

6. Cooper KD, **Baron ED**, LeVee G, Stevens SR. Protection against UV-induced suppression of contact hypersensitivity responses by sunscreens in humans. *Exp Dermatol* 2002;11(Suppl 1):20-27.
7. \***Baron ED**, Fourtanier A, Compan D, Medaisko C, Cooper KD, Stevens SR. High UVA protection affords greater immune protection confirming that UVA contributes to photoimmune suppression in humans. *J Invest Dermatol* 2003; 121:869-75. *This is the first in vivo human study that clearly demonstrated the role of UVA1 spectrum in immunosuppression. Prior to this, only animal and in vitro studies were available that suggested the role of UVA1.*
8. **Baron ED**, Harris L, Redpath W, Shapiro H, Hetzel F, Morley G, Bar-Or D, Stevens SR. Laser-assisted penetration of topical anesthetic in adults. *Arch Dermatol* 2003;139:1288-1290.
9. Coyle TS, Nam T, Camouse M, Stevens SR, **Baron ED**. Steroid-sparing effect of extracorporeal photopheresis in the treatment of chronic graft vs host disease. *Arch Dermatol* 2004; 140:763-764.
10. Martin JA, Taylor CR, Trehan M, **Baron ED**, Anstey AV. Phototesting in the Smith-Lemli-Opitz syndrome confirms sensitivity to UVA. *Arch Dermatol* 2006; 142(5):647-48.
11. Veremis-Ley M, Ramirez H, **Baron ED**, Hanneman K, Lankerani L, Scull H, Cooper KD, Nedorost ST. Laser-assisted penetration of allergens for patch testing. *Dermatitis* 2006; 17(1):15-22.
12. **Baron ED**, Yuksel M, Camouse M, et al. Peritransplant use of ultraviolet-B irradiation (UVB) therapy is detrimental to allogeneic stem cell transplantation outcome. *Biol Blood Marrow Transplant* 2006; 12(6):665-71.
13. Hanneman KS, Scull HM, Cooper KD, **Baron ED**. Effect of topical vitamin d analogue on in vivo contact sensitization. *Arch Dermatol* 2006; 142 (10):1332-4.
14. Miller JS, **Baron ED**, Scull HM, Hsia A, Berlin JC, McCormick TS, Colussi V, Kenney ME, Cooper KD, Oleinick NL. Photodynamic therapy with the phthalocyanine photosensitizer Pc 4: The Case experience with preclinical mechanistic and early clinical-translational studies. *Toxicol Appl Pharmacol* 2007; (epub ahead of print).
15. McComsey GA, O'riordan M, Setzer B, Lebrecht D, **Baron ED**, Walker UA. Uridine supplementation in HIV lipodystrophy: pilot trial on safety and effect on mitochondrial indices. *Eur J Clin Nutr* 2007; (epub ahead of print).
16. Miller JD, Kirkland EB, Domingo DS, Scull H, Jekutis B, Dallas M, Cooper KD, **Baron ED**. Review of extracorporeal photopheresis in early-stage (IA, IB, and IIA) cutaneous T-cell lymphoma. *Photodermatol Photoimmunol Photomed* 2007;23(5):163-171.
17. Ke MS, Xue LY, Feyes DK, Azizuddin K, **Baron ED**, McCormick TS, Mukhtar H, Panneerselyam A, Schluchter MD, Cooper KD, Oleinick NL, Stevens SR. Apoptosis mechanisms related to increased sensitivity of Jurkat T-cells vs A431 epidermoid cells to photodynamic therapy with the silicon phthalocyanine Pc 4. *Photochem Photobiol* 2008, 84(2): 407-414, Epub Jan. 23.
18. Ke MS, Camouse MM, Swain FR, Oshtory S, Matsui M, Mammone T, Maes D, Cooper KD, Stevens SR, **Baron ED**. UV protective effects of DNA repair enzymes and RNA lotion. *Photochem Photobiol* 2008; 84(1):180-4.

19. Morrisey K, Xue W, Cooper KD, **Baron ED**. Age and gender effects on contact sensitization and photoimmune suppression in young and middle-aged adults. *Photodermatol Photoimmunol Photomed* 2008; 24(1): 46-8.
20. GA McComsey, V Lo Re, III, M O’Riordan, UA Walker, D Lebrecht, **E Baron**, I Frank. Effect of Reducing the Dose of Stavudine on Body Composition, B and Markers of Mitochondrial Toxicity in HIV-infected Subjects-a Controlled Study. *Clin Infect Dis*. 2008 April 15;46-(8): 1290-1296.
21. Lucas CR, Ke MS, Matsui MS, Maes D, Cooper KD, Stevens SR, **Baron ED**. Immune protective effect of a moisturizer with DNA repair ingredients. *J Cosmet Dermatol*. 2008 Jun;7(2):132-5.
22. Camouse MM, Swick AR, Ryan CA, Hulette B, Gerberick F, Tinkle SS, Nedorost ST, Cooper KD, Stevens SR, **Baron ED**. Determination of in vivo dose response and allergen-specific T cells in subjects contact-sensitized to squaric acid dibutyl ester. *Dermatitis*. 2008 Mar-Apr;19(2):95-9
23. Tammy K. Lee, **Elma D. Baron** and Thomas H. Foster. Monitoring Pc 4 photodynamic therapy in clinical trials of cutaneous T-cell lymphoma using noninvasive spectroscopy. *Journal of Biomedical Optics* 2008 May/June;13(3):030507.
24. \*Camouse MM, Doming DS, Swain FR, Conrad E, Matsui M, Maes D, Declerq L, Cooper KD, Stevens SR, **Baron ED**. Topical application of green and white tea extracts provides protection from solar simulated ultraviolet light in human skin. *Exp Dermatol* 2009; 18(6):522-6. *This was an important in vivo human study that demonstrated the immunoprotective potential of topical epigallocatechin gallate (green tea polyphenol), which proved its capacity to augment photoprotective strategies.*
25. Martires, KJ, Fu P, Polster AM, Cooper KD, **Baron ED**. Factors that affect skin aging: a cohort-based survey on twins. *Arch Dermatol* 2009; 145(12):1375-9.
26. \***Baron, Elma**, Malbasa, Christi; Domingo, Diana; Fu, Pingfu; Miller, Janine; Hanneman, Kaija; Hsia, Andrew; Oleinick, Nancy; Colussi, Valdir; Cooper, Kevin Silicon Phthalocyanine (Pc 4) Photodynamic Therapy is a Safe Modality for Cutaneous Neoplasms: Results of a Phase 1 Clinical Trial . *Lasers Surg Med* 2010; 42(10):728-35 *This study represents the first in-human use of topical silicon phthalocyanine Pc 4 for photodynamic therapy of cutaneous neoplasms.*
27. Domingo DS, Camouse MM, Hsia AH, Matsui M, Maes D, Ward NL, Cooper KD, **Baron ED**. Anti-angiogenic effects of epigallocatechin-3-gallate in human skin. *Int J Clin Exp Pathol* 2010; 3(7):705-9.
28. Martires KJ, Domingo DS, Hsia A, Fu P, Cooper KD, Baron ED. Effects of pimecrolimus versus triamcinolone on Langerhans cells after UV exposure. *Exp Dermatol* 2011; 20(3): 280-2. Epub 2010 Dec. 17.
29. Lam M, Lee Y, Deng M, Hsia A, Morrissette K, Yan C, Azzizudin K, Oleinick NL, McCormick TS, Cooper KD and **Baron ED**. Photodynamic Therapy with the Silicon Phthalocyanine Pc 4 Induces Apoptosis in Mycosis Fungoides and Sezary Syndrome. *Advances Hematol* 2010;2010:896161.Epub 2010 Dec 12.
30. Talpur R, Demierre MF, Geskin L, **Baron E** et al. Multicenter photopheresis intervention trial in early-stage mycosis fungoides. *Clin Lymphoma Myeloma Leuk* April 2011;11(2):219-27.

31. Lam M, AH Hsia, Y Liu, M Guo, AR Swick, JC Berlin, TS McCormick, ME Kenney, NL Oleinick, KD Cooper, **ED Baron**. Successful cutaneous delivery of the photosensitizer silicon phthalocyanine Pc 4 for photodynamic therapy. *Clin Exp Dermatol* Aug 2011; 36(6):645-51.
32. \*Lam M, Jou PC, Lattif AA, Lee Y, Malbasa CL, Mukherjee PK, Oleinick NL, Ghannoum MA, Cooper KD, **Baron ED**. Photodynamic therapy with Pc 4 induces apoptosis in *C. albicans*. *Photochem Photobiol* July-Aug 2011; 87(4): 904-9. *This is the first study to demonstrate the antifungal potential of silicon phthalocyanine Pc 4 and outline its mechanism of action in C. albicans.*
33. Starnes AM, Jou PC, Molitoris JK, Lam M, **Baron ED**, Garcia-Zuazaga J. Acute effects of fractional laser on photo-aged skin. *Dermatol Surg* 2012;38(1):51-7.
34. Huang AY, Myers JT, Barkauskas D, Howell SJ, Oleinick NL, McCormick TS, Cooper KD, **Baron ED**, Lam M. Cutaneous penetration of the topically applied photosensitizer Pc 4 as detected by intravital 2-photon laser scanning microscopy. *Photodiagnosis Photodyn Ther* 2012; 9(3):225-31.
35. Callahan A, **Baron ED**, Feskedulegn D, et al. Winter season, frequent hand washing, and irritant patch test reactions to detergents are associated with hand dermatitis in health care workers. *Dermatitis* 2013; 24(4):170-5.
36. Depry J, Golding R, Szczotka-Flynn L, Dao H, **Baron ED**, Cooper KD. UVB-protective properties of contact lenses with intended use in photoresponsive eyelid dermatoses. *Photodermatol Photoimmunol Photomed* 2013; 29(5):253-60.
37. **Lam M**, Dimaano ML, Oyetakin-White P, Retuerto MA, Chandra J, Mukherjee PK, Ghannoum MA, Cooper KD, **Baron ED**. Silicon phthalocyanine Pc 4 phototoxicity in *Trichophyton rubrum*. *Antimicrob Agents Chemother* 2014 March 10, epub ahead of print.
38. Oyetakin-White,P, Suggs A, Koo B, Matsui M, Yarosh D, Cooper KD, **Baron ED**. Does poor sleep quality affect skin aging? *Clin Exp Dermatol* 2014; epub ahead of print.
39. Dimaano ML, Rozario C, Nerandzic MM, Donskey CJ, Lam M, **Baron ED**. The photodynamic antibacterial effects of silicon phthalocyanine Pc 4. *Int J Mol Sci.* 2015 Apr 8;16(4):7851-60. doi: 10.3390/ijms16047851.
40. Mirmirani P, Consolo M, Oyetakin-White P, **E Baron**, Leahy P, Karnik P. Similar response patterns to topical minoxidil foam 5% in frontal and vertex scalp of men with androgenetic alopecia: a microarray analysis *Br J Dermatol.* 2015 Jun;172(6):1555-61.
41. Sha J, Gastman BR, Morris N, Mesinkovska NA, **Baron ED**, Cooper KD, McCormick T, Arbesman J, Harter ML. The response of microRNAs to solar UVR in skin-resident melanocytes differs between melasma patients and healthy persons. *PLoS One.* 2016 May 5;11(5):e0154915. doi: 10.1371/journal.pone.0154915
42. Soler DC, Ohtola J, Sugiyama H, Rodriguez ME, Han L, Oleinick NL, Lam M, **Baron ED**, Cooper KD, McCormick TS. Activated T cells exhibit increased uptake of silicon phthalocyanine Pc 4 and increased susceptibility to Pc 4-mediated photodynamic therapy-mediated cell death. *Photochem Photobiol Sci.* 2016 Jun 8;15(6):822-31. doi: 10.1039/c6pp00058d
43. Guan L, Suggs A, Ahsanuddin S, Tarrillion M, Selph J, Lam M, **Baron E**. Circadian rhythm and UV-induced skin damage: an in vivo study. *J Drugs Dermatol* 2016 Sep 1; 15(9): 11-24-30.
44. Yucesoy B, Talzhanov Y, Barmada MM, Johnson VJ, Kashon ML, **Baron E**, Wilson NW, Frye B, Wang W, Fluharty K, Gharib R, Meade J, Germolec D, Luster MI,

- Nedorost S. Genetic basis of irritant susceptibility in healthcare workers. *J Occup Environ Med.* 2016 Aug;58(8):753-9.
45. Yucesoy B, Talzhanov Y, Michael Barmada M, Johnson VJ, Kashon ML, **Baron E**, Wilson NW, Frye B, Wang W, Fluharty K, Gharib R, Meade J, Germolec D, Luster MI, Nedorost S. Association of MHC region SNPs with irritant susceptibility of healthcare workers. *J Immunotoxicol.* 2016 Sep;13(5):738-44.
  46. Hutnick MA, Ahsanuddin S, Guan L, Lam M, **Baron ED**, Pokorski JK. PEGylated dendrimers as drug delivery vehicles for the photosensitizer silicon phthalocyanine Pc 4. *Biomacromolecules.* 2017 Feb 13;18(2):379-385.
  47. Guan L, Suggs A, Galan E, Lam M, **Baron ED**. Topical application of ST266 reduces UV-induced skin damage. *Clin Cosmet Investig Dermatol.* 2017 Nov 10;10:459-471
  48. Suggs A, Loesch M, Ezaldein H, Christensen L, Dawes D, **Baron E**. An acne survey from the world's largest gathering of twins. *J Drugs Dermatol.* 2018 Apr 1;17(4):380-382.
  49. Chandra J, Retuerto M, Seité S, Martin R, Kus M, Ghannoum MA, **Baron E**, Mukherjee PK. Effect of an emollient on the mycobiome of atopic dermatitis patients. *J Drugs Dermatol.* 2018 Oct 1;17(10):1039-1048
  50. Schrom KP, Ahsanuddin S, Baechtold M, Tripathi R, Ramser A, **Baron E**. Acne severity and sleep quality in adults. *Clocks Sleep.* 2019, Dec 6; 1(4):510-516.
  51. Schrom, KP, Scarberry KB, **Baron ED**. Patient-reported satisfaction, comfortability, and efficacy of home phototherapy. *Photodermatol Photoimmunol Photomed* 2022 Jan 12, online ahead of print.

### **PUBLICATIONS: Reviews and Case Reports/Case Series**

1. **Baron ED**, Stevens SR. Light treatment modalities for atopic dermatitis. *Immunol Allergy Clin* 2002; 22(1):125-140.
2. **Baron ED**, Stevens SR. Sunscreens and immune protection. *Br J Dermatol* 2002; 146(6):933-7.
3. Cooper KD, **Baron ED**, Matsui M. Implications of UV-induced inflammation and immunomodulation. *Cutis* 2003; 72 (3 Suppl) 11-5; discussion 16.
4. **Baron ED**, Stevens SR. Phototherapy for cutaneous T-cell lymphoma. *Dermatol Ther* 2003;16(4):303-10.
5. Fourtanier A, Moyal D, Maccario J, Compan D, Wolf P, Quehenberger F, Cooper KD, **Baron ED**, Halliday G, Poon T, Seed P, Walker SL, Young AR. The measurement of sunscreen immune protection factors in humans: a consensus paper. *J Invest Dermatol* 2005; 125(3) 403-9.
6. Lankerani L, **Baron ED**. Photosensitivity to exogenous agents. *J Cutan Med Surg* 2005; 8(6):424-31.
7. Garcia-Zuazaga, J, Cooper KD, **Baron ED**. Current concepts in the treatment of skin cancer. *Expert Rev. Anticancer Ther.* 2005; 5(5), 801-810.
8. Camouse MM, Hanneman KK, Conrad E, **Baron ED**. Protective effects of tea polyphenols and caffeine. *Expert Rev. Anticancer Ther.* 2005; 5(6):1061-8

9. Hanneman KK, Cooper KD, **Baron ED**. UV immune suppression: mechanisms and consequences. *Dermatol Clin* 2006; 24(1):19-25.
10. Newman B, **Baron ED**. Antioxidant properties of vitamins and their role in skin cancer prevention. *Int J Cancer Prevent* 2006; 4(1).
11. Evers M, **Baron ED**, Zaim T, Han A. Papules and plaques on the nose. Nodular localized primary cutaneous amyloidosis. *Arch Dermatol* 2007; 143(4):535-40.
12. Santo Domingo D, Miller JS, Casse BK, **Baron ED**. Photoaging: A review of mechanisms. *Dermatology* 2007; 12(1):1-7.
13. Santo Domingo D, Yang MF, Cooper KD, **Baron ED**. Ultraviolet induced immune suppression: A brief review. *Giornale Italiano di Dermatologia e Venereologia* 2007; 142(3): 251.
14. Yang M, **Baron ED**. Update on the immunology of UV and visible radiation therapy: phototherapy, photochemotherapy and photodynamic therapy. *Expert Rev Dermatol* 2008; 3(1): 85-98.
15. Domingo DS, **Baron ED**. Melanoma and nonmelanoma skin cancers and the immune system. *Adv Exp Med Biol* 2008; 624:187-202.
16. Patel RR, Kirkland EB, Nguyen DH, Cooper BW, **Baron ED**, Gilliam AC. Erythema nodosum in association with newly diagnosed hairy cell leukemia and Group C streptococcus infection. *Am J Dermatopathol* 2008; 30(2):160-2.
17. Tandon YK, Yang MF, **Baron ED**. Role of photodynamic therapy in psoriasis: a brief review. *Photodermatol Photoimmunol Photomed* 2008; 24(5):222-30.
18. **Baron ED**, Kirkland EB, Domingo DS. Advances in photoprotection. *Dermatol Nurs* 2008; 20(4):265-272; quiz 273.
19. Bennett MF, Robinson MK, **Baron ED**, Cooper KD. Skin immune systems and inflammation: protector of the skin or promoter of aging? *J Investig Dermatol Symp Proc* 2008; 13(1):15-9.
20. Malbasa C, **Baron ED**. Photoprotection with clothing and sunscreens. *G Ital Dermatol Venereol* 2010; 145(4):509-14.
21. Lee Y and **Baron ED**. Photodynamic Therapy: current evidence and applications in dermatology. *Semin Cutan Med Surg* 2011;30(4):199-209.
22. Zweibel S. and **Baron E**. PDT in squamous cell carcinoma of the skin. *G Ital Dermatol Venereol* 2011; 146(6):431-44.
23. OyetakinWhite P, Tribout H, **Baron E**. Protective mechanisms of green tea polyphenols in skin. *Oxid Med Cell Longev* 2012; Epub Jun 26, 2012.
24. Yu SH and **Baron ED**. Evaluation and assessment of photoaging. *Photon Lasers Med* 2013 .
25. Yu SH, Bordeaux JS, **Baron ED**. The immune system and skin cancer. *Adv Exp Med Biol* 2014; 810:182-91.
26. **Baron ED**, Suggs A. Introduction to photobiology. *Dermatol Clinics* 2014 32(3):255-66.
27. Suggs A, Oyetakin-White P, **Baron ED**. Effect of botanicals on inflammation and skin aging: analyzing the evidence. *Inflamm Allergy Drug Targets* 2014;13(3):168-76.
28. Ahmad SI, Christensen L, **Baron E**. History of UV lamps: types and their applications. *Adv Exp Med Biol*. 2017;996:3-11.

29. Christensen L, Suggs A, **Baron E.** Ultraviolet Photobiology in Dermatology. *Adv Exp Med Biol.* 2017;996:89-104.
30. Merati M, Merrill JF, Lowe E, Honda K, **Baron E.** Palpable purpura in a boy with abdominal pain: Challenge. *Am J Dermatopathol.* 2018 Jan;40(1):e6. doi: 10.1097/DAD.0000000000000707. No abstract available.
31. Ramser AE, Craig EM, Delost GR, **Baron E.** Cutaneous metastases of tonsillar carcinoma: Report of a rare case. *JAAD Case Rep.* 2018 Jun 6;4(6):551-554. doi: 10.1016/j.jdc.2018.03.003. eCollection 2018 Jul. No abstract available
32. Schrom, KP, Kim I, **Baron ED.** The immune system and pathogenesis of melanoma and non-melanoma skin cancer. *Adv. Exp Med Biol* 2020;1268:211-226.

### **BOOK CHAPTERS:**

1. Taylor CR and Baron ED. Guttate Psoriasis. In: William James (Chief Ed.) *eMedicine: Dermatology.* St. Petersburg: eMedicine Corporation, 2000.
2. Taylor CR and Baron ED. Pustular Psoriasis. In: William James (Chief Ed.) *eMedicine: Dermatology.* St. Petersburg: eMedicine Corporation, 2000.
3. Baron ED and Taylor CR. Solar Urticaria. In: William James (Chief Ed.) *eMedicine: Dermatology.* St. Petersburg: eMedicine Corporation, 2000.
4. Baron ED. The immune system and carcinogenesis of basal and squamous cell carcinomas. In: Jorge Reichrath (Chief Ed) *Molecular mechanisms of basal and squamous cell carcinoma.* 2006. Landes Bioscience/Springer, USA; pp 43-48.
5. Yu SH, Bordeaux JS, Baron ED. The immune system and skin cancer. In: Reichrath J, ed. *Sunlight, Vitamin D and Skin Cancer, Second Edition.* Austin/New York: Landes Bioscience and Springer Science+Business Media, 2013; epub ahead of print <http://www.landesbioscience.com/curie/chapter/5403/>.
6. Guann L, Baron ED. Sleep and skin aging in *Textbook of Skin Aging* (Edito: Howard Maibach), 2016.

### **BOOKS:**

Elma D. Baron, ed. *Light-based therapies for skin of color.* Springer Verlag publishers, London, 2009.

### **EDITORSHIP/REVIEWER POSITIONS**

1. FIRSTConsult/Elsevier Science Publications – clinical reviewer in Dermatology
2. *Journal of Investigative Dermatology* – reviewer
3. *British Journal of Dermatology* – reviewer
4. *Archives of Dermatology* - reviewer
5. *Photodermatology, Photoimmunology, Photomedicine* – reviewer
6. *Photochemistry and Photobiology* – reviewer
7. *Journal of Photochemistry, Photobiology B. Biology* – reviewer
8. *Experimental Dermatology* – reviewer
9. Faculty of 1000 – reviewer
10. Plos ONE - reviewer



## **INVITED LECTURES**

1. Sunscreens: Benefits and Limitations for Symposium on Photoprotection and Photoaging, Summer Meeting of the American Academy of Dermatology, Chicago, IL, USA, August 2005
2. Clinical application and mechanisms of photodynamic therapy – Dermatology Foundation annual symposium, Ritz Carlton, Naples, Florida, USA, January 2006
3. Advances in Photomedicine, Focus Session, Annual Meeting of American Academy of Dermatology, San Francisco, CA, USA, March 2006
4. Sunscreens and Immune Protection for Symposium on Photoprotection and Photoaging, Summer Meeting of the American Academy of Dermatology, San Diego, CA, USA, July 2006.
5. Advances in Photoprotection, Via Videoconference for Plenary Session at Annual Symposium of the Philippine Dermatological Society, Manila, Philippines, November 10,2006
6. The Problem with Pigment, Via Videoconference for the Plenary Session at the Annual Symposium of the Philippine Dermatological Society, Manila, Philippines, November 10,2006
7. Photodynamic Therapy for Cutaneous Lymphoma, for the Forum on Clinical Applications of PDT, Annual Meeting of the American Academy of Dermatology, Washington DC, USA February 2007
8. Photodynamic Therapy for Non-ablative Photorejuvenation, for Forum on Advances in Photomedicine, Annual Meeting of the American Academy of Dermatology, Washington DC, USA February 2007
9. Photodynamic Therapy: How Does It Work? For Symposium on Therapies and How They Work, Annual Meeting of the American Academy of Dermatology, Washington DC, USA February 2007.
10. Photodermatology Review Course – Chicago Board Review Course, Marriott Oakbrook, Oakbrook, IL, USA, July 2007, July 2008, July 2009
11. Photoprotection: Focus Session, Summer Meeting of American Academy of Dermatology, New York, NY, August 2007.
12. *Annual Khosrow Momtaz Lectureship in Photomedicine, Department of Dermatology, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA, March 6, 2007. Title: Translational Photomedicine*
13. Silicon phthalocyanine Pc 4 for photodynamic therapy, for the Symposium on New Drugs in Dermatology, World Congress of Dermatology, Buenos Aires, Argentina, October 5, 2007
14. Updates on Photodynamic Therapy, Lasers and Light Therapies, for the annual meeting of the Tennessee Dermatological Society, Chattanooga TN, USA, November 2-4, 2007
15. Updates on Photodynamic Therapy. Annual meeting of the Photomedicine Society, San Antonio, Texas, February 4, 2008
16. Photodynamic Therapy for Inflammatory Dermatoses, Forum at the American Academy of Dermatology Annual Meeting, San Antonio, Texas, February 5, 2008
17. Lasers and Phototherapy, Forum at the American Academy of Dermatology Annual Meeting, San Antonio Texas, February 7, 2008

18. Apoptotic effects of Pc 4-PDT in CTCL, Annual Photomedicine Society Meeting, San Francisco, CA, March 4, 2009
19. PDT for non-neoplastic indications, forum at the American Academy of Dermatology Annual Meeting, San Francisco, CA, March 7, 2009
20. The Safety of Sunscreens. International Congress of Dermatology, Prague, Czech Republic, May 2009
21. Factors that affect photoaging: a study using a cohort of twins. International Congress of Photobiology, Dusseldorf Germany, June 19, 2009.
22. Photobiology of Skin of Color, Cleveland Dermatology Society Meeting, Cleveland, Ohio, September 17, 2009
23. Challenges in Translational Research, Annual Photomedicine Society Meeting, Miami, Florida, March 5, 2010
24. PDT for Inflammatory Dermatoses, forum at the American Academy of Dermatology Annual Meeting, Miami Florida, March 10, 2010.
25. Development of phthalocyanines for PDT. Annual Photomedicine Society Meeting, New Orleans, LA, March 4, 2011.
26. Photocarcinogenic effects of UV, May 26, 2011. World Congress of Dermatology, Seoul, Korea
27. Photopheresis. May 26, 2011. World Congress of Dermatology, Seoul, Korea
28. Pc 4 PDT as an antifungal therapy. European Congress of Photobiology, Geneva, Switzerland, September 4-7, 2011.
29. Photosensitizers Friend or Foe, February 20, 2012, Asian Regional Congress of Dermatology, Manila, Philippines
30. Update on Sunscreens, February 22, 2012, Asian Regional Congress of Dermatology, Manila, Philippines
31. Symposium on Photodermatology: Moderator and Director, March 17, 2012, American Academy of Dermatology Annual Meeting, San Diego, CA
32. Photodynamic Therapy: Benefits and limitations. March 17, 2012, American Academy of Dermatology Annual Meeting, San Diego, CA (chair of symposium on Photodermatology)
33. Photodynamic Therapy for Inflammatory Disorders, March 19, 2012, American Academy of Dermatology Annual Meeting, San Diego CA
34. Antimicrobial PDT, Photodermatology Symposium, March 2013 American Academy of Dermatology Annual Meeting, Miami Florida (chair of symposium on Photodermatology)
35. Antimicrobial PDT, PDT symposium, March 2013 American Academy of Dermatology Annual Meeting, Miami Florida
36. Sunscreen formulations, November 2013, Philippine Dermatological Society Photobiology Course, Manila Philippines.
37. Sunscreen, SPF, skin cancer and other controversies, November 2013, Philippine Dermatological Society, Photobiology course, Manila Philippines
38. Home Phototherapy Devices, Photodermatology Symposium, March 2014, American Academy of Dermatology Annual Meeting, Denver, CO
39. Teledermatology: benefits and limitations, Dermatology Grand Rounds, April 2014, UT Southwestern Dallas, Texas.

40. Photobiology and Sunscreens, FDA National Advisory Committee Meeting on OTC Drugs, September 4, 2014, Silver Springs, MD
41. Photodynamic therapy for nonmelanoma skin cancer, PDT symposium, March 2015, American Academy of Dermatology Annual Meeting, San Francisco
42. Photobiology of Lasers and Light Devices, MAUI Derm, annual symposium for nurse practitioners, June 2015, Colorado Springs, CO.
43. Circadian Rhythm and Skin Responses to UV light, Philippine Dermatological Society, November 3, 2015, Manila Philippines
44. Hair Photoprotection and Update on Sunscreens, Philippine Dermatological Society, November 5, 2015, Manila Philippines
45. Sleep and Skin Aging, Cleveland Clinic Grand Rounds of Sleep Medicine Department, January 7, 2016
46. Pigmentation, University of the Philippines Dermatology Post Graduate Course, April 1, 2016, Manila Philippines
47. Photodynamic Therapy, Weekly Conference of Philippine General Hospital Section of Dermatology February 2017
48. PDT for photoaging in Symposium on PDT, American Academy of Dermatology Annual Meeting, Orlando Florida, March 2017
49. Phototherapy in Forum on Light Therapies, American Academy of Dermatology Annual Meeting Orlando Florida, March 2017
50. Phototherapy Practices, American Academy of Dermatology Summer meeting 2017
51. Effects on Sleep on Skin Function and Appearance – UPMASA Annual Convention, Albany NY, July 2017
52. Controversies in Sunscreens – European Photobiology Congress, Pisa Italy, September 2017
53. Lasers in Dermatology, Annual Meeting of the Society of Dermatology Nurse Practitioners (online symposium), Sept. 11, 2021.
54. Aging Skin: When to Worry – VA Geriatric Research, Education and Clinical Centers (GRECC), Cleveland, OH, September 24, 2021
55. Probiotics and Skin Health – Asian Regional Congress of Dermatology Virtual Conference, organized by Philippine Dermatological Society, Manila, Philippines, 11/1/2022
56. Update on Sunscreens: Risks and Benefits – Asian Regional Congress of Dermatology Virtual Conference, organized by Philippine Dermatological Society, Manila, Philippines, 11/1/2022

### **MEMBERSHIPS IN MEDICAL SOCIETIES**

1. Fellow, Philippine Dermatological Society (1996 – )
2. Non-resident fellow, American Academy of Dermatology (January 1998 – )
3. Fellow, Photomedicine Society (March 2000 – )
4. Fellow, Society for Investigative Dermatology (January 2001 -2018 )
5. Fellow, American Society for Photobiology (April 2002 - )
6. Member, American Society for Lasers in Medicine and Surgery (2006-2016)

**Prior Research Funding (last 10 years)**

NIH/NIAMS

P30 AR039750

Skin Disease Research Center

8/1/2011-7/31/2016

SDRC Translational Research Core

Role: Director of Core

The major goal of this project is to facilitate the conduct of human subject based and translational research in dermatology and dermatologic disease. To serve as tissue acquisition core for researchers investigating skin and skin pathologies.

R01 FDA 00413-01A1

9/15/2012 – 8/31/2015

Role: PI

Title: Phase 1 Trial on Pc 4-PDT in CTCL: single and repeat photoexposures

The major goal of this project is to determine the safety and efficacy of silicon phthalocyanine Pc 4 PDT in the treatment of cutaneous T-cell lymphoma.

NIH/NIAMS

9/24/07-8/31/12 extended to 8/31/13

P50 AR055508

Psoriasis Center of Research Translation (CORT)

Project 1: Photodynamic therapy for psoriasis

Role: Project PI

The major goals of this project is to investigate the role of silicon phthalocyanine Pc 4 photodynamic therapy in the treatment of psoriasis and to evaluate the mechanisms behind observed effects of PDT. This is one of three projects and two cores awarded to the institution as part of a Center of Research Translation (CORT) grant.

Estee Lauder Companies

9/1/2012- 12/31/ 2013

Clinical study on the effects of sleep on skin function and recovery.

Role: Project PI

This is a clinical study to determine whether good sleepers versus poor sleepers demonstrate a difference in skin characteristics, functions, and ability to recover from skin stressors.

LOreal/NESTLE

5/1/2011-4/30/2012

Clinical study on determining effects of oral probiotics on cutaneous UV immune suppression

Role: Project PI

This is a clinical study utilizing lactobacillus in healthy volunteers and measuring their immune responsiveness to contact allergen.

**OTHER AWARDS/HONORS**

2005 Excellent Performance as Chief of Dermatology at Cleveland Veterans Affairs Medical Center

2006-2008 Outstanding Performance as Chief of Dermatology at Cleveland Veterans Affairs Medical Center

2011 Helen Evans Midcareer Faculty Award – awarded by the School of Medicine to a female faculty member with significant academic accomplishments

2011 Teledermatology cited as Best Practices, Department of Veterans Affairs

2014 – Research Mentor Award, University Hospitals Dermatology Training Program

2015-2017 – Top Docs in Cleveland

2017 – Mentorship Award, University Hospitals Dermatology Training Program

2018 – Research Mentor Award, University Hospitals Dermatology Training Program

2015-2022 Castle Connolly Top Doctors in America

**LANGUAGES:**

English and Filipino – spoken and written

*Elma D. Baron*