Stanford



# Lisa Zaba, MD, PhD

Associate Professor of Dermatology


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## Bio

### BIO

Lisa Zaba M.D. Ph.D., is an Associate Professor of Dermatology, and Director of the Merkel cell carcinoma (MCC) multi-disciplinary clinic and member of the supportive oncodermatology group at the Stanford Cancer Center. She runs a lab focusing on the immunology of MCC and the treatment and prognostic implications of immune checkpoint inhibitor and targeted therapy rashes. Dr. Zaba completed medical school at Cornell University, PhD in immunology at Rockefeller University, Residency and Post-Doc at Stanford University in 2013.

### CLINICAL FOCUS

- Dermatology

### ACADEMIC APPOINTMENTS

- Associate Prof-Univ Med Line, Dermatology
- Member, Stanford Cancer Institute

### ADMINISTRATIVE APPOINTMENTS

- Director of MCC Multi-Disciplinary Clinic, Stanford, (2021- present)
- Director of Cutaneous Oncology at CCSB, Stanford, (2018- present)

### HONORS AND AWARDS

- Research Scholar, New York Academy of Science (2002)
- Member, Alpha Omega Alpha, Weill Cornell Medical College (2003)
- Recipient, World Congress scholarship for Psoriasis research (2008)
- Recipient, Clinical Translational Science grant for Psoriasis research (2008)
- Intern of the Year, Memorial Sloan Kettering Cancer Center (2010)
- Recipient, National Dermatology Foundation Award for Scleroderma research (2013)

### PROFESSIONAL EDUCATION

- Board Certification: Dermatology, American Board of Dermatology (2013)
- Residency: Stanford School of Medicine (2013) CA
- Internship: Memorial Sloan Kettering Cancer Center Transitional Year Training (2010) NY
- PhD, The Rockefeller University , NY (2009)
- MD, Weill Cornell Medical College , NY (2009)
- BS, Stanford University , CA (2000)

### LINKS

- Zaba Lab Website: https://zabalab.stanford.edu/

## Research & Scholarship

### CLINICAL TRIALS

- Skin Changes From the Use of Moisturizers in Participants With Cancer Experiencing Dermatological Adverse Events, Not Specified

## Teaching

### STANFORD ADVISEES

**Med Scholar Project Advisor**

Sri Polkampally

## Publications

### PUBLICATIONS

- **ctDNA or Merkel Virus Antibodies for Surveillance of Merkel Cell Carcinoma Recurrence.** *JAMA dermatology*
  Thakuria, M., Akaike, T., Silk, A. W., Hippe, D. S., Ch'en, P. Y., Alam, R., Chan, J. E., Park, S. Y., Khaddour, K., Biese, K. B., Jabbour, A. J., Fu, A., Gilmour, et al
  2026

- **Circulating Tumor DNA in Merkel Cell Carcinoma: A Precision Biomarker for Recurrence Detection and Therapeutic Guidance.** *Journal of personalized medicine*
  Chan, J. E., Zaba, L. C.
  2026; 16 (6)

- **Response to Gao and Chen, "Comments on Akaike et al.'s 'Circulating tumor DNA level is associated with time to clinical recurrence in Merkel cell carcinoma: Implications for patient management'".** *Journal of the American Academy of Dermatology*
  Akaike, T., Thakuria, M., Silk, A. W., Hippe, D. S., Ch'en, P. Y., Guja, K. E., Youn Park, S., Tsai, K., Yom, S. S., Yu, S. S., Choi, J., Chandra, S., Nghiem, et al
  2026

- **Automated Detection of Benign and Malignant Skin Lesions from Reflectance Confocal Microscopy Images Using Deep Learning.** *JID innovations : skin science from molecules to population health*
  Omiye, J. A., Rao, B. K., Razi, S., Chuchvara, N., Baik, F. M., Daneshjou, R., Zaba, L. C.
  2025; 5 (6): 100404

- **Circulating tumor DNA level is associated with time to clinical recurrence in Merkel cell carcinoma: Implications for patient management.** *Journal of the American Academy of Dermatology*
  Akaike, T., Thakuria, M., Silk, A. W., Hippe, D. S., Ch'en, P. Y., Park, S. Y., Urman, N. M., Chiu, M. W., Kim, H., Kim, E. Y., Hall, E. T., Bhatia, S., Reddy, et al
  2025

- **Microbial activation of cytotoxic CD8<SUP>+</SUP> T cells promotes skin immunerelated adverse events in patients treated with immune checkpoint inhibitors**
  Younis, S., Acharya, S., Swaminathan, G., Wong, H., Kim, H., Eschholz, A., Hegde, S., McKnight, A., Robinson, W., Zaba, L.
  WILEY.2025: 2171-2174

- **Comparison of surveillance circulating tumor DNA and Merkel polyomavirus antibody titer for detection of Merkel cell carcinoma recurrence.**
  Chan, J., Hippe, D. S., Thakuria, M., Akaike, T., Park, S., Silk, A. W., Khaddour, K., Nghiem, P., Zaba, L. C.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Circulating Tumor DNA Assay Detects Merkel Cell Carcinoma Recurrence, Disease Progression, and Minimal Residual Disease: Surveillance and Prognostic Implications.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
  Akaike, T., Thakuria, M., Silk, A. W., Hippe, D. S., Park, S. Y., So, N. A., Maloney, N. J., Gunnell, L., Eschholz, A., Kim, E. Y., Sinha, S., Hall, E. T., Bhatia, et al
  2024: JCO2302054

- **Impaired innate and adaptive immune responses to BNT162b2 SARS-CoV-2 vaccination in systemic lupus erythematosus.** *JCI insight*
  Sarin, K. Y., Zheng, H., Chaichian, Y., Arunachalam, P. S., Swaminathan, G., Eschholz, A., Gao, F., Wirz, O. F., Lam, B., Yang, E., Lee, L. W., Feng, A., Lewis, et al
  2024; 9 (5)

- **Prognosis of Merkel cell carcinoma patients with autoimmune disorders, other types of immune dysfunction, or immunocompetent status: analysis of 762 patients.** *Journal of the American Academy of Dermatology*
  Park, S. Y., Hippe, D. S., Zawacki, L., Bierma, M., Bhatia, S., Nghiem, P., Zaba, L. C., Singh, N.
  2024

- **Characterization of immunosuppressive myeloid cells in Merkel cell carcinoma: correlation with resistance to PD-1 pathway blockade.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Nghiem, P., Tabachnick-Cherny, S., Pulliam, T., Rodriguez, H. J., Fan, X., Hippe, D. S., Jones, D. C., Moshiri, A. S., Smythe, K. S., Kulikauskas, R. M., Zaba, L., Paulson, K. G.
  2023

- **Risk of Multiple Primary Cancers in Patients With Merkel Cell Carcinoma: A SEER-Based Analysis.** *JAMA dermatology*
  Eid, E., Maloney, N. J., Cai, Z. R., Zaba, L. C., Kibbi, N., John, E. M., Linos, E.
  2023

- **In Patients with Advanced Urothelial Carcinoma, Immune Checkpoint Inhibition Prior to Enfortumab Vedotin Is Associated with High-grade Skin Toxicity.** *European urology*
  Molina, G. E., Schwartz, B., Srinivas, S., Shah, S., Zaba, L. C.
  2023

- **Health Care Utilization and Costs in Systemic Therapies for Metastatic Melanoma from 2016 to 2020.** *The oncologist*
  Qian, M. F., Betancourt, N. J., Pineda, A., Maloney, N. J., Nguyen, K. A., Reddy, S. A., Hall, E. T., Swetter, S. M., Zaba, L. C.
  2022

- **Utility of a circulating tumor DNA test for detecting clinically evident and occult Merkel cell carcinoma**
  Akaike, T., So, N., Hippe, D. S., Gunnell, L., Doolittle-Amieva, C., Lachance, K., Hall, E., Bhatia, S., Eschholz, A., Rathore, R., Hook, N., Baker, K., Rodriguez, et al
  ELSEVIER SCIENCE INC.2022: 2837

- **Impact of duration of immunotherapy on clinical outcomes in advanced Merkel cell carcinoma patients responding to first-line immunotherapy**
  Tachiki, L. M., Zawacki, L., Hippe, D. S., Moshiri, Y., Alexander, N., Akaike, T., Doolittle-Amieva, C., Pulliam, T., Zaba, L. C., Bhatia, S., Nghiem, P.
  ELSEVIER SCIENCE INC.2022: 2840

- **Utility of a circulating tumor DNA test for detecting clinically evident and occult Merkel cell carcinoma**
  Akaike, T., So, N., Hippe, D. S., Gunnell, L., Doolittle-Amieva, C., Lachance, K., Hall, E., Bhatia, S., Eschholz, A., Rathore, R., Hook, N., Baker, K., Rodriguez, et al
  ELSEVIER SCIENCE INC.2022: 2837

- **Impact of duration of immunotherapy on clinical outcomes in advanced Merkel cell carcinoma patients responding to first-line immunotherapy**

Tachiki, L. M., Zawacki, L., Hippe, D. S., Moshiri, Y., Alexander, N., Akaike, T., Doolittle-Amieva, C., Pulliam, T., Zaba, L. C., Bhatia, S., Nghiem, P.
ELSEVIER SCIENCE INC.2022: 2840

- **Risk factors for and prognostic impact of positive surgical margins after excision of Merkel cell carcinoma** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
  Maloney, N. J., Nguyen, K. A., So, N. A., Aasi, S. Z., Zaba, L. C.
  2022; 87 (2): 444-446

- **Yield of sentinel lymph node biopsy in sebaceous carcinoma and predictors of advanced disease: a retrospective analysis of the National Cancer Database.** *Journal of the American Academy of Dermatology*
  Maloney, N. J., Nguyen, K. A., So, N. A., Zaba, L. C.
  2022

- **The relationship between circulating tumor DNA with Merkel cell carcinoma tumor burden and detection of recurrence.**
  Akaike, T., So, N., Hippe, D. S., Gunnell, L., Doolittle-Amieva, C., Lachance, K., Hall, E., Bhatia, S., Rathore, R., Rattigan, N., Baker, K., Rodriguez, A., Ecklund, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Histologic subtype of cutaneous immune-related adverse events predicts overall survival in patients receiving immune checkpoint inhibitors.** *Journal of the American Academy of Dermatology*
  Hirotsu, K. E., Scott, M. K., Marquez, C., Tran, A. T., Rieger, K. E., Novoa, R. A., Robinson, W. H., Kwong, B. Y., Zaba, L. C.
  2021

- **Dermatologic toxicities of targeted antineoplastic agents and immune checkpoint inhibitor therapy in pediatric patients: A systematic review.** *Pediatric blood & cancer*
  Liu, L. Y., Teng, J. M., Spunt, S. L., Strelo, J. L., Kwong, B. Y., Zaba, L. C.
  2021: e29346

- **Clinical features of drug-induced hypersensitivity syndrome to BRAF inhibitors with and without previous immune checkpoint inhibition: a review.** *Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer*
  Maloney, N. J., Rana, J., Yang, J. J., Zaba, L. C., Kwong, B. Y.
  2021

- **Risk factors for and prognostic impact of positive surgical margins after excision of Merkel cell carcinoma.** *Journal of the American Academy of Dermatology*
  Maloney, N. J., Nguyen, K. A., So, N. A., Aasi, S. Z., Zaba, L. C.
  2021

- **Synergistic effect of lymphovascular invasion and nodal involvement on prognosis in Merkel cell carcinoma: a retrospective analysis in the National Cancer Database.** *Journal of the American Academy of Dermatology*
  Nguyen, K. A., Maloney, N. J., Yang, J. J., Zaba, L. C.
  2021

- **NUTRITIONAL DEFICIENCY CONTRIBUTING TO REFRACTORY ERYTHRODERMA IN HEMATOPOETIC CELL TRANSPLANT PATIENTS: DISTINCTIVE CLINICAL AND HISTOPATHOLOGICAL FINDINGS.** *Journal of the American Academy of Dermatology*
  Winge, M. C., Rieger, K. E., Kim, J., Weng, W., Johnston, L. J., Miklos, D. B., Strelo, J., Zaba, L. C., Pugliese, S. B., Novoa, R. A., Kwong, B. Y.
  2021

- **Competing risks analysis of Merkel cell carcinoma with concurrent chronic lymphocytic leukemia and non-Hodgkin lymphoma.** *Dermatology online journal*
  Nguyen, K. A., Maloney, N. J., Yang, J. J., Bach, D. Q., Zaba, L. C.
  2021; 27 (8)

- **Histopathologic correlation of skin manifestations of multisystemic inflammatory syndrome in adults (MIS-A) associated with SARS-CoV-2 infection.** *JAAD case reports*
  So, N. A., So, J., Centkowski, S., Rana, J., Aleshin, M., Kwong, B. Y., Rieger, K., Zaba, L. C., Chiou, A. S.
  2021

- **Complete remission from intralesional talimogene laherparepvec for regionally advanced Merkel cell carcinoma in an immunocompromised solid organ transplant patient.** *JAAD case reports*
  Hirotsu, K. E., Hua, V., Tran, A. T., Morris, L., Reddy, S. A., Kwong, B. Y., Zaba, L. C.

2021; 13: 144-146

- **Drug-induced hypersensitivity syndrome like reaction with angioedema and hypotension associated with BRAF inhibitor use and antecedent immune checkpoint therapy.** *JAAD case reports*
  Rana, J., Maloney, N. J., Rieger, K. E., Pugliese, S. B., Strelo, J. L., Liu, A., Zaba, L. C., Kwong, B. Y.
  2021; 13: 147-151

- **Response to "Mohs surgery for early-stage Merkel cell carcinoma (MCC) achieves local control better than wide local excision +/- radiation therapy with no increase in MCC-specific death".** *International journal of dermatology*
  Nguyen, K. A., Maloney, N. J., Fonseca, A., Nghiem, P., Zaba, L. C.
  2021

- **Merkel cell carcinoma patients with solid organ transplant or hematologic malignancy: demographics, survival, and prognosticators.** *Journal of the American Academy of Dermatology*
  Maloney, N. J., Yang, J. J., Zaba, L. C.
  2021

- **Efficacy of regional nodal ultrasound surveillance for metastatic detection in sentinel- and complete lymph node dissection-eligible melanoma patients.**
  Swetter, S. M., Liu, L. Y., Gyurdzhyan, S., Zaba, L. C.
  LIPPINCOTT WILLIAMS & WILKINS.2021

- **Prognostic value of bone marrow metabolism on pretreatment 18F-FDG PET/CT in patients with metastatic melanoma treated with anti-PD-1 therapy.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
  Nakamoto, R., Zaba, L. C., Liang, T., Reddy, S. A., Davidzon, G., Aparici, C. M., Nguyen, J., Moradi, F., Iagaru, A., Franc, B. L.
  2021

- **How we treat Merkel cell carcinoma: within and beyond current guidelines.** *Future oncology (London, England)*
  Park, S. Y., Doolittle-Amieva, C., Moshiri, Y., Akaike, T., Parvathaneni, U., Bhatia, S., Zaba, L. C., Nghiem, P.
  2021

- **Prognostic value of lymphovascular invasion in early-stage Merkel cell carcinoma: a retrospective analysis in the National Cancer Database.** *Journal of the American Academy of Dermatology*
  Maloney, N. J., Nguyen, K. A., Yang, J. J., Zaba, L. C.
  2021

- **Imaging Characteristics and Diagnostic Performance of 2-deoxy-2-[18F]fluoro-D-Glucose PET/CT for Melanoma Patients Who Demonstrate Hyperprogressive Disease When Treated with Immunotherapy.** *Molecular imaging and biology*
  Nakamoto, R., C Zaba, L., Rosenberg, J., Arani Reddy, S., W Nobashi, T., Ferri, V., Davidzon, G., Mari Aparici, C., Nguyen, J., Moradi, F., Iagaru, A., Lewis Franc, B.
  2020

- **Imaging characteristics and diagnostic performance of F-18-FDG PET/CT for melanoma patients who demonstrate hyperprogressive disease when treated with immunotherapy**
  Nakamoto, R., Zaba, L., Rosenberg, J., Reddy, S., Nobashi, T., Davidzon, G., Aparici, C., Nguyen, J., Moradi, F., Iagaru, A., Franc, B.
  SOC NUCLEAR MEDICINE INC.2020

- **Prognostic value of volumetric PET parameters at early response evaluation in melanoma patients treated with immunotherapy**
  Nakamoto, R., Zaba, L., Rosenberg, J., Reddy, S., Nobashi, T., Davidzon, G., Aparici, C., Nguyen, J., Moradi, F., Iagaru, A., Franc, B.
  SOC NUCLEAR MEDICINE INC.2020

- **Increased Mortality in Asians With Systemic Sclerosis in Northern California.** *ACR open rheumatology*
  Chung, M. P., Dontsi, M., Postlethwaite, D., Kesh, S., Simard, J. F., Fiorentino, D., Zaba, L. C., Chung, L.
  2020

- **Chromatin accessibility landscapes of skin cells in systemic sclerosis nominate dendritic cells in disease pathogenesis.** *Nature communications*
  Liu, Q., Zaba, L., Satpathy, A. T., Longmire, M., Zhang, W., Li, K., Granja, J., Guo, C., Lin, J., Li, R., Tolentino, K., Kania, G., Distler, et al
  2020; 11 (1): 5843

- **Sites of distant metastasis in Merkel cell carcinoma differ by primary tumor site and are of prognostic significance: a population-based study in the Surveillance, Epidemiology, and End Results database from 2010-2016.** *Journal of the American Academy of Dermatology*

Maloney, N. J., Nguyen, K. A., Bach, D. Q., Zaba, L. C.
2020

- **Prognostic value of volumetric PET parameters at early response evaluation in melanoma patients treated with immunotherapy.** *European journal of nuclear medicine and molecular imaging*
  Nakamoto, R. n., Zaba, L. C., Rosenberg, J. n., Reddy, S. A., Nobashi, T. W., Davidzon, G. n., Aparici, C. M., Nguyen, J. n., Moradi, F. n., Iagaru, A. n., Franc, B. L.
  2020

- **Successful treatment of HIV-negative Kaposi sarcoma with ipilimumab and nivolumab and concurrent management of baseline psoriasis and bullous pemphigoid.** *JAAD case reports*
  Tabata, M. M., Novoa, R. A., Bui, N. Q., Zaba, L. C.
  2020; 6 (5): 447–49

- **Clinicopathologic characterization of enfortumab vedotin-associated cutaneous toxicity in patients with urothelial carcinoma.** *Journal of the American Academy of Dermatology*
  Hirotsu, K. E., Rana, J. n., Wang, J. Y., Raghavan, S. S., Rieger, K. E., Srinivas, S. n., Fan, A. C., Kwong, B. Y., Novoa, R. A., Zaba, L. n.
  2020

- **Increased Mortality in Black and Asian Patients with Systemic Sclerosis in Northern California**
  Chung, M., Dontsi, M., Postlethwaite, D., Kesh, S., Zaba, L., Chung, L.
  WILEY.2018

- **Chromatin Accessibility Landscape of Cutaneous T Cell Lymphoma and Dynamic Response to HDAC Inhibitors.** *Cancer cell*
  Qu, K. n., Zaba, L. C., Satpathy, A. T., Giresi, P. G., Li, R. n., Jin, Y. n., Armstrong, R. n., Jin, C. n., Schmitt, N. n., Rahbar, Z. n., Ueno, H. n., Greenleaf, W. J., Kim, et al
  2017

- **Individuality and Variation of Personal Regulomes in Primary Human T Cells** *CELL SYSTEMS*
  Qu, K., Zaba, L. C., Giresi, P. G., Li, R., Longmire, M., Kim, Y. H., Greenleaf, W. J., Chang, H. Y.
  2015; 1 (1): 51-61

- **Individuality and variation of personal regulomes in primary human T cells.** *Cell systems*
  Qu, K., Zaba, L. C., Giresi, P. G., Li, R., Longmire, M., Kim, Y. H., Greenleaf, W. J., Chang, H. Y.
  2015; 1 (1): 51-61

- **Distinctive cutaneous and systemic features associated with antitranscriptional intermediary factor-1? antibodies in adults with dermatomyositis.** *Journal of the American Academy of Dermatology*
  Fiorentino, D. F., Kuo, K., Chung, L., Zaba, L., Li, S., Casciola-Rosen, L.
  2015; 72 (3): 449-455

- **Transposition of Native Chromatin for Fast and Sensitive Mulitmodal Analysis of Chromatin Architecture**
  Buenrostro, J. D., Giresi, P. G., Zaba, L. C., Chang, H. Y., Greenleaf, W. J.
  CELL PRESS.2014: 77A

- **Transposition of native chromatin for fast and sensitive epigenomic profiling of open chromatin, DNA-binding proteins and nucleosome position** *NATURE METHODS*
  Buenrostro, J. D., Giresi, P. G., Zaba, L. C., Chang, H. Y., Greenleaf, W. J.
  2013; 10 (12): 1213-?

- **Transposition of native chromatin for fast and sensitive epigenomic profiling of open chromatin, DNA-binding proteins and nucleosome position.** *Nature methods*
  Buenrostro, J. D., Giresi, P. G., Zaba, L. C., Chang, H. Y., Greenleaf, W. J.
  2013; 10 (12): 1213-1218

- **Most Patients With Cancer-Associated Dermatomyositis Have Antibodies to Nuclear Matrix Protein NXP-2 or Transcription Intermediary Factor 1?.** *Arthritis and rheumatism*
  Fiorentino, D. F., Chung, L. S., Christopher-Stine, L., Zaba, L., Li, S., Mammen, A. L., Rosen, A., Casciola-Rosen, L.
  2013; 65 (11): 2954-2962

- **A Subpopulation of CD163-Positive Macrophages Is Classically Activated in Psoriasis** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*

Fuentes-Duculan, J., Suarez-Farinas, M., Zaba, L. C., Nograles, K. E., Pierson, K. C., Mitsui, H., Pensabene, C. A., Kzhyshkowska, J., Krueger, J. G., Lowes, M. A.
2010; 130 (10): 2412-2422

- **Identification of TNF-related apoptosis-inducing ligand and other molecules that distinguish inflammatory from resident dendritic cells in patients with psoriasis** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
  Zaba, L. C., Fuentes-Duculan, J., Eungdamrong, N., Johnson-Huang, L. M., Nograles, K. E., White, T. R., Pierson, K. C., Lentini, T., Suarez-Farinas, M., Lowes, M. A., Krueger, J. G.
  2010; 125 (6): 1261-1268

- **Evaluation of the Psoriasis Transcriptome across Different Studies by Gene Set Enrichment Analysis (GSEA)** *PLOS ONE*
  Suarez-Farinas, M., Lowes, M. A., Zaba, L. C., Krueger, J. G.
  2010; 5 (4): e10247

- **Atopic dermatitis keratinocytes exhibit normal T(H)17 cytokine responses** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
  Nograles, K. E., Suarez-Farinas, M., Shemer, A., Fuentes-Duculan, J., Chiricozzi, A., Cardinale, I., Zaba, L. C., Kikuchi, T., Ramon, M., Bergman, R., Krueger, J. G., Guttman-Yassky, E.
  2010; 125 (3): 744-746

- **Dendritic Cells in the Pathogenesis of Sarcoidosis** *AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY*
  Zaba, L. C., Smith, G. P., Sanchez, M., Prystowsky, S. D.
  2010; 42 (1): 32-39

- **Effective treatment of psoriasis with etanercept is linked to suppression of IL-17 signaling, not immediate response TNF genes** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
  Zaba, L. C., Suarez-Farinas, M., Fuentes-Duculan, J., Nograles, K. E., Guttman-Yassky, E., Cardinale, I., Lowes, M. A., Krueger, J. G.
  2009; 124 (5): 1022-1030

- **IL-22-producing "T22" T cells account for upregulated IL-22 in atopic dermatitis despite reduced IL-17-producing T(H)17 T cells** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
  Nograles, K. E., Zaba, L. C., Shemer, A., Fuentes-Duculan, J., Cardinale, I., Kikuchi, T., Ramon, M., Bergman, R., Krueger, J. G., Guttman-Yassky, E.
  2009; 123 (6): 1244-1252

- **Resident and "Inflammatory" Dendritic Cells in Human Skin** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
  Zaba, L. C., Krueger, J. G., Lowes, M. A.
  2009; 129 (2): 302-308

- **Psoriasis Is Characterized by Accumulation of Immunostimulatory and Th1/Th17 Cell-Polarizing Myeloid Dendritic Cells** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
  Zaba, L. C., Fuentes-Duculan, J., Eungdamrong, N., Abello, M., Novitskaya, I., Pierson, K. C., Gonzalez, J., Krueger, J. G., Lowes, M. A.
  2009; 129 (1): 79-88

- **Low Expression of the IL-23/Th17 Pathway in Atopic Dermatitis Compared to Psoriasis** *JOURNAL OF IMMUNOLOGY*
  Guttman-Yassky, E., Lowes, M. A., Fuentes-Duculan, J., Zaba, L. C., Cardinale, I., Nograles, K. E., Khatcherian, A., Novitskaya, I., Carucci, J. A., Bergman, R., Krueger, J. G.
  2008; 181 (10): 7420-7427

- **Th17 cytokines interleukin (IL)-17 and IL-22 modulate distinct inflammatory and keratinocyte-response pathways** *BRITISH JOURNAL OF DERMATOLOGY*
  Nograles, K. E., Zaba, L. C., Guttman-Yassky, E., Fuentes-Duculan, J., Suarez-Farinas, M., Cardinale, I., Khatcherian, A., Gonzalez, J., Pierson, K. C., White, T. R., Pensabene, C., Coats, I., Novitskaya, et al
  2008; 159 (5): 1092-1102

- **Psoriasis vulgaris lesions contain discrete populations of Th1 and Th17 T cells** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
  Lowes, M. A., Kikuchi, T., Fuentes-Duculan, J., Cardinale, I., Zaba, L. C., Haider, A. S., Bowman, E. P., Krueger, J. G.
  2008; 128 (5): 1207-1211

- **Identification of cellular pathways of "Type 1," Th17 T cells, and TNF- and inducible nitric oxide synthase-producing dendritic cells in autoimmune inflammation through pharmacogenomic study of cyclosporine a in psoriasis** *JOURNAL OF IMMUNOLOGY*
  Haider, A. S., Lowes, M. A., Suarez-Farinas, M., Zaba, L. C., Cardinale, I., Khatcherian, A., Novitskaya, I., Wittkowski, K. M., Krueger, J. G.
  2008; 180 (3): 1913-1920

- **Amelioration of epidermal hyperplasia by TNF inhibition is associated with reduced Th17 responses** *JOURNAL OF EXPERIMENTAL MEDICINE*
  Zaba, L. C., Cardinale, I., Gilleaudeau, P., Sulhvan-Whalen, M., Suarez-Farinas, M., Fuentes-Duculan, J., Novitskaya, I., Khatcherian, A., Bluth, M. J., Lowes, M. A., Krueger, J. G.
  2007; 204 (13): 3183-3194

- **Normal human dermis contains distinct populations of CD11c(+)BDCA-1(+) dendritic cells and CD163(+)FXIIIA(+) macrophages** *JOURNAL OF CLINICAL INVESTIGATION*
  Zaba, L. C., Fuentes-Duculan, J., Steinman, R. M., Krueger, J. G., Lowes, M. A.
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