

# Stanford

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## Anne Lynn S. Chang, MD

Professor of Dermatology at the Stanford University Medical Center

### CLINICAL OFFICES

- **Medical Dermatology**

450 Broadway St  
Pavillion B FL 4 MC 5338  
Redwood City, CA 94063

**Tel** (650) 723-6316      **Fax** (650) 721-3476

- **Stanford Med Ctr Dermatology**

900 Blake Wilbur Dr Rm W0069  
MC 5334  
Stanford, CA 94305

**Tel** (650) 725-4302      **Fax** (650) 723-7796

### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Averley Mayo - Administrative Assistant

**Email** [amayo@stanford.edu](mailto:amayo@stanford.edu)

### Bio

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#### BIO

Anne Lynn S. Chang, M.D., is a Professor of Dermatology, Director of the Advanced Basal Cell Carcinoma Clinic, and Director of Dermatologic Clinical Trials. Her research is both translational and clinical in nature and centers on the human genetics of healthy skin aging and diseases related to aging skin including new treatments for advanced basal and squamous cell skin cancers.

#### CLINICAL FOCUS

- Cancer > Cutaneous (Dermatologic) Oncology
- Dermatology
- Skin Cancer
- Geriatric dermatology
- basal cell carcinoma
- non-melanoma skin cancer
- clinical trials
- acne rosacea
- rosacea

#### ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Dermatology

- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

### **ADMINISTRATIVE APPOINTMENTS**

- Director of Adult Dermatological Clinical Trials, Stanford Dermatology, (2007- present)
- Director of the Advanced Basal Cell Carcinoma Clinic, Stanford Dermatology, (2011- present)

### **HONORS AND AWARDS**

- Fellow, American Academy of Dermatology (2007)
- Career Development Award, Dermatology Foundation (2009)
- Research Scholar Award, American Skin Association (2013, 2014)
- Leadership Forum, American Academy of Dermatology (2014)
- Research Grant/Award, National Rosacea Society (2014-2015)

### **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member, American Academy of Dermatology (2004 - present)
- Member, Society of Investigative Dermatology (2007 - present)
- Core Curriculum Task Force Appointee, 2015-2018, American Academy of Dermatology (2015 - present)

### **PROFESSIONAL EDUCATION**

- Residency: UCSF Reproductive Endocrinology and Infertility Fellowship (2002) CA
- Internship: UCSF Reproductive Endocrinology and Infertility Fellowship (2000) CA
- Residency: Stanford University Hospital and Clinics - Dermatology Department (2007) CA
- Fellowship: Stanford University Hospital and Clinics - Dermatology Department (2004) CA
- Medical Education: Harvard Medical School (1999) MA
- Board Certification: Dermatology, American Board of Dermatology (2007)
- MD, Harvard Medical School , Medicine (1999)

### **COMMUNITY AND INTERNATIONAL WORK**

- Doctor Radio, Redwood City, CA
- Cutting Edge Clinical Trials in Older Adults, Stanford Medicine Outpatient Center

### **LINKS**

- Dr. Chang's Website: <http://annechangmd.stanford.edu/>

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

I have two main research interests:

- 1) to better understand and treat patients with aggressive basal and squamous cell carcinomas
- 2) to better understand the genetic and epigenetic mechanisms of healthy human skin aging and to translate these insights into better care of skin diseases enriched in older patients particularly skin cancer and rosacea

### **CLINICAL TRIALS**

- CemiplimAb Survivorship Epidemiology, Recruiting

- Pembrolizumab Versus Placebo Following Surgery and Radiation in Participants With Locally Advanced Cutaneous Squamous Cell Carcinoma (MK-3475-630/KEYNOTE-630), Recruiting
- Pre-Operative Cemiplimab Administered Intralesionally for Patients With Recurrent Cutaneous Squamous Cell Carcinoma, Recruiting
- Study of REGN2810 in Patients With Advanced Cutaneous Squamous Cell Carcinoma, Recruiting
- A Phase 1 Study of IPI-926 in Patients With Advanced and/or Metastatic Solid Tumor Malignancies, Not Recruiting
- A Phase II Study of Efficacy and Safety in Patients With Locally Advanced or Metastatic Basal Cell Carcinoma, Not Recruiting
- A Study Evaluating the Efficacy and Safety of Vismodegib (GDC-0449) in Operable Basal Cell Carcinoma, Not Recruiting
- A Study Evaluating the Efficacy and Safety of Vismodegib (GDC-0449, Hedgehog Pathway Inhibitor) in Patients With Advanced Basal Cell Carcinoma, Not Recruiting
- A Study in Advanced Cancer, Not Recruiting
- A Study of Pharmacokinetic Drug Interaction Study of the Hedgehog Pathway Inhibitor GDC-0449 in Combination With Rosiglitazone or Combined Oral Contraceptive in Patients With Locally Advanced or Metastatic Solid Tumors That Are Refractory to Standard Therapy or for Whom No Standard Therapy Exists, Not Recruiting
- A Study of Vismodegib (GDC-0449) in Patients Treated With Vismodegib in a Previous Genentech-sponsored Phase I or II Cancer Study, Not Recruiting
- A Study of Vismodegib (GDC-0449) in Patients With Locally Advanced or Metastatic Basal Cell Carcinoma, Not Recruiting
- An Observational Study of Treatment Patterns and Effectiveness and Safety Outcomes in Advanced Basal Cell Carcinoma and Basal Cell Carcinoma Nevus Syndrome Patients(RegiSONIC), Not Recruiting
- Genetic Basis of Rosacea Study (Control), Not Recruiting
- Human Skin Aging: Clinical Parameters and Gene Expression Profiling, Not Recruiting
- Levocarnitine in Treating Patients With Vismodegib-Associated Muscle Spasms, Not Recruiting
- PD-1 in Patients With Advanced Basal Cell Carcinoma Who Experienced Progression of Disease on Hedgehog Pathway Inhibitor Therapy, or Were Intolerant of Prior Hedgehog Pathway Inhibitor Therapy, Not Recruiting
- Pembrolizumab With or Without Vismodegib in Treating Metastatic or Unresectable Basal Cell Skin Cancer, Not Recruiting
- Pilot LDE225 in Locally Advanced or Metastatic BCC + Previously Tx Non-LDE225 Smoothed Inhibitors, Not Recruiting
- Pilot Study of Sonidegib and Buparlisib in Treating Patients With Advanced or Metastatic Basal Cell Carcinoma, Not Recruiting
- Study of Patidegib Topical Gel, 2%, for the Reduction of Disease Burden of Persistently Developing Basal Cell Carcinomas (BCCs) in Subjects With Basal Cell Nevus Syndrome (Gorlin Syndrome), Not Recruiting
- Study of Pembrolizumab (MK-3475) in Adults With Recurrent/Metastatic Cutaneous Squamous Cell Carcinoma (cSCC) or Locally Advanced Unresectable cSCC (MK-3475-629/KEYNOTE-629), Not Recruiting
- Vismodegib in Treating Patients With Basal Cell Carcinoma (BCC), Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Med Scholar Project Advisor

John Cannon, Diana Chang, Michelle Jin, Charles Lee

## Publications

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### PUBLICATIONS

- **An exploratory, open-label, investigator-initiated study of interleukin-17A (IL-17A) blockade in patients with moderate to severe papulopustular rosacea.** *The British journal of dermatology*  
Kumar, A. M., Chiou, A. S., Shih, Y. H., Li, S., Chang, A. L.  
2020
- **Cemiplimab in locally advanced cutaneous squamous cell carcinoma: results from an open-label, phase 2, single-arm trial.** *The Lancet. Oncology*  
Migden, M. R., Khushalani, N. I., Chang, A. L., Lewis, K. D., Schmults, C. D., Hernandez-Aya, L., Meier, F., Schadendorf, D., Guminski, A., Hauschild, A., Wong, D. J., Daniels, G. A., Berking, et al

2020

- **Phase 2 study of cemiplimab in patients with metastatic cutaneous squamous cell carcinoma: primary analysis of fixed-dosing, long-term outcome of weight-based dosing.** *Journal for immunotherapy of cancer*  
Ris chin, D., Migden, M. R., Lim, A. M., Schmults, C. D., Khushalani, N. I., Hughes, B. G., Schadendorf, D., Dunn, L. A., Hernandez-Aya, L., Chang, A. L., Modi, B., Hauschild, A., Ulrich, et al  
2020; 8 (1)
- **A PHASE 2, MULTI-Center, PLACEBO-CONTROLLED STUDY OF Single dose Squaric Acid Dibutyl Ester (sadbe) to reduce frequency of outbreaks IN SUBJECTS WITH RECURRENT HERPES LABIALIS.** *Journal of the American Academy of Dermatology*  
Chang, A. L., Honari, G., Guan, L., Zhao, L., Palli, M. A., Horn, T. D., Dudek, A. Z., McTavish, H.  
2020
- **Impact of prior lines of systemic therapy (PST) on the efficacy of cemiplimab, a human monoclonal anti-PD-1, in patients (pts) with advanced cutaneous squamous cell carcinoma (CSCC)**  
Ris chin, D., Khushalani, N. I., Schmults, C. D., Guminski, A., Chang, A. S., Lewis, K. D., Lim, A. M., Hernandez-Aya, L., Hughes, B. M., Schadendorf, D., Hauschild, A., Stankevich, E., Booth, et al  
OXFORD UNIV PRESS.2019
- **KEYNOTE-630: phase 3 study of adjuvant pembrolizumab versus placebo in patients with high-risk, locally advanced cutaneous squamous cell carcinoma**  
Geiger, J., Daniels, G., Cohen, E., Ge, J., Gumuscu, B., Swaby, R., Chang, A.  
BMC.2019
- **Alterations of Immune and Keratinization Gene Expression in Papulopustular Rosacea by Whole Transcriptome Analysis.** *The Journal of investigative dermatology*  
Shih, Y., Xu, J., Kumar, A., Li, R., Chang, A. L.  
2019
- **Phase II study of 2 dosing regimens of cemiplimab, a human monoclonal anti-PD-1, in metastatic cutaneous squamous cell carcinoma (mCSCC)**  
Ris chin, D., Lim, A. M., Schmults, C. D., Khushalani, N. I., Hughes, B. G., Schadendorf, D., Dunn, L. A., Chang, A. S., Hauschild, A., Ulrich, C., Eigentler, T., Migden, M. R., Pavlick, et al  
OXFORD UNIV PRESS.2019
- **Exploratory study to examine the gene expression effects of retinol on aging-related molecular pathways in individuals of East Asian descent**  
Guan, L., Zhao, L., Xu, J., Li, R., Kern, D., Knaggs, H., Chang, A. S.  
MOSBY-ELSEVIER.2019: AB64
- **A phase 1b, open-label, investigator-initiated, proof-of-concept study of pembrolizumab for advanced basal cell carcinomas**  
Chang, A., Duy Tran, Cannon, J., Li, S., Jeng, M., Rieger, K., Reddy, S., Sarin, K., Colevas, D.  
MOSBY-ELSEVIER.2019: AB8
- **Long-term efficacy and safety of sonidegib in patients with advanced basal cell carcinoma: 42-month analysis of the phase 2 randomised, double-blind BOLT study.** *The British journal of dermatology*  
Dummer, R., Guminski, A., Gutzmer, R., Lear, J. T., Lewis, K. D., Chang, A. L., Combemale, P., Dirix, L., Kaatz, M., Kudchadkar, R., Loquai, C., Plummer, R., Schulze, et al  
2019
- **Genetic mutations underlying phenotypic plasticity in basosquamous carcinoma**  
Chiang, A., Tan, C., Kuonen, F., Hodgkinson, L., Chiang, F., Cho, R., Tang, J., Chang, A., Rieger, K., Oro, A., Sarin, K.  
ELSEVIER SCIENCE INC.2019: S295
- **Quantitative analysis of differentially expressed proteins in papulopustular rosacea**  
Harden, J., Shih, Y., Rajendran, D., Hofland, H., Chang, A.  
ELSEVIER SCIENCE INC.2019: B25
- **An exploratory open label phase 1b study of secukinumab in patients with moderate to severe papulopustular rosacea**  
Kumar, A., Chiou, A., Shih, Y., Li, S., Chang, A.  
ELSEVIER SCIENCE INC.2019: B15
- **Immune Checkpoint Inhibitors for Treating Advanced Cutaneous Squamous Cell Carcinoma** *AMERICAN JOURNAL OF CLINICAL DERMATOLOGY*  
Patel, R., Chang, A. S.

2019; 20 (4): 477–82

- **Incidence of Perineural Invasion with Hedgehog Pathway Inhibitors in Orbital and Periorbital Basal Cell Carcinoma**  
Chandramohan, A., Nair, A., Chang, A., Kossler, A. L.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **Phase 2 study of cemiplimab, a human monoclonal anti-PD-1, in patients (pts) with metastatic cutaneous squamous cell carcinoma (mCSCC; Group 1): 12-month follow-up.**  
Guminski, A., Lim, A., Khushalani, N. I., Schmults, C. D., Hernandez-Aya, L., Modi, B., Dunn, L., Hughes, B., Chang, A. S., Hauschild, A., Migden, M., Gutzmer, R., Alam, et al  
AMER SOC CLINICAL ONCOLOGY.2019
- **KEYNOTE-630: Phase 3 study of adjuvant pembrolizumab versus placebo in patients with high risk, locally advanced cutaneous squamous cell carcinoma.**  
Geiger, J., Daniels, G. A., Cohen, E. W., Ge, J., Gumuscu, B., Swaby, R. F., Chang, A. S.  
AMER SOC CLINICAL ONCOLOGY.2019
- **Primary analysis of phase 2 results of cemiplimab, a human monoclonal anti-PD-1, in patients (pts) with locally advanced cutaneous squamous cell carcinoma (laCSCC).**  
Migden, M., Khushalani, N. I., Chang, A. S., Rischin, D., Schmults, C. D., Hernandez-Aya, L., Meier, F., Schadendorf, D., Guminski, A., Hauschild, A., Wong, D. L., Daniels, G. A., Berking, et al  
AMER SOC CLINICAL ONCOLOGY.2019
- **Pembrolizumab with or without vismodegib for advanced basal cell carcinoma: An investigator-initiated, proof-of-concept study**  
Chang, A., Tran, D. C., Cannon, J., Li, S., Jeng, M., Rieger, K., Sarin, K. Y., Yost, K., Satpathy, A., Reddy, S., Colevas, A.  
ELSEVIER SCIENCE INC.2019: S92
- **Exploratory study to examine the gene expression effects of topical retinol on aging-related pathways in individuals of East Asian descent**  
Guan, L., Zhao, L., Xu, J., Li, R., Kern, D., Knaggs, H., Chang, A.  
ELSEVIER SCIENCE INC.2019: S117
- **Alterations of gene expression in papulopustular rosacea by whole transcriptome analysis**  
Shih, Y., Xu, J., Kumar, A., Li, R., Chang, A.  
ELSEVIER SCIENCE INC.2019: S170
- **Interim analysis of phase 2 results for Cemiplimab, a human monoclonal antibody to programmed death-1 (PD-1), in patients with locally advanced cutaneous squamous cell carcinoma**  
Migden, M. R., Berking, C., Chang, A. S., Eigentler, T. K., Hauschild, A., Hernandez-Aya, L., Khushalani, N., Lewis, K. D., Meier, F., Modi, B., Rischin, D., Schadendorf, D., Schmults, et al  
WILEY.2019: 161–62
- **Unique Tumor Heterogeneity Within a Single Locally Advanced Basal Cell Carcinoma Resulting in a Partial Response Despite Continuous Vismodegib Treatment** *DERMATOLOGIC SURGERY*  
Nayyar, P., Chang, A. S., Sarin, K., Ratner, D.  
2019; 45 (4): 608–10
- **Enhancer Connectome Nominates Target Genes of Inherited Risk Variants from Inflammatory Skin Disorders** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*  
Jeng, M. Y., Mumbach, M. R., Granja, J. M., Satpathy, A. T., Chang, H. Y., Chang, A. S.  
2019; 139 (3): 605–14
- **Immune Checkpoint Inhibitors for Treating Advanced Cutaneous Squamous Cell Carcinoma.** *American journal of clinical dermatology*  
Patel, R., Chang, A. L.  
2019
- **Pembrolizumab for advanced basal cell carcinoma: An investigator-initiated, proof-of-concept study** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*  
Chang, A. S., Tran, D. C., Cannon, J. D., Li, S., Jeng, M., Patel, R., Van der Bokke, L., Pague, A., Brotherton, R., Rieger, K. E., Satpathy, A. T., Yost, K. E., Reddy, et al  
2019; 80 (2): 564–66

- **Old fibroblasts secrete inflammatory cytokines that drive variability in reprogramming efficacy between individuals and could affect wound healing** *Nature*  
Mahmoudi, S., Mancini, E., Moore, A., Jahanbani, F., Hebstreit, K., Srinivasan, R., Li, X., Devarajan, K., Prelo, L., Ang, C., Shibuya, Y., Benayoun, B. A., Chang, et al  
2019; Accepted
- **Long term efficacy and safety of sonidegib in patients with advanced basal cell carcinoma: 42-month analysis of the phase 2, randomised, double-blind BOLT study** *British Journal of Dermatology*  
Dummer, R., Guminski, A., Gutzmer, R., Lear, J., Lewis, K., Chang, A. S., Combemale, P., Dirix, L., Kaatz, M., Kudchadkar, R., Loquai, C., Plummer, R., Schulze, et al  
2019; Accepted (TBD)
- **Alterations of immune and keratinization gene expression in papulopustular rosacea by whole transcriptome analysis** *Journal of Investigative Dermatology*  
Shih, Y., Xu, J., Kumar, A., Chang, A. S.  
2019; Accepted (TBD)
- **Clonal replacement of tumor-specific T cells following PD-1 blockade.** *Nature Medicine* 2019. 25(8):1251-9. *Nature Medicine*  
Yost, K. E., Satpathy, A., Wells, D. K., Qi, Y., Wang, C., Kageyama, R., McNamara, K., Granja, J. M., Sarin, K., Brown, R. A., Gupta, R., Curtis, C., Bucktrout, et al  
2019; 25 (8)
- **Pathophysiology of basal cell carcinoma and its associated genetic syndromes** *Basal cell carcinoma-- advances in treatment and research*  
Chang, A. S.  
Springer.2019; TBD
- **Genetic mutations underlying phenotypic plasticity in basosquamous carcinoma** *Journal of Investigative Dermatology*  
Chiang, A., Tan, C. Z., Kuonen, F., Hodgkinson, L. M., Chiang, F., Cho, R. J., South, A. P., Tang, J. Y., Chang, A. L., Rieger, K. E., Oro, A. E., Sarin, K. Y.  
2019
- **Heterogeneity in old fibroblasts is linked to variability in reprogramming and wound healing.** *Nature*  
Mahmoudi, S., Mancini, E., Xu, L., Moore, A., Jahanbani, F., Hebstreit, K., Srinivasan, R., Li, X., Devarajan, K., Prélôt, L., Ang, C. E., Shibuya, Y., Benayoun, et al  
2019; 574 (7779): 553–58
- **Clonal replacement of tumor-specific T cells following PD-1 blockade.** *Nature medicine*  
Yost, K. E., Satpathy, A. T., Wells, D. K., Qi, Y., Wang, C., Kageyama, R., McNamara, K. L., Granja, J. M., Sarin, K. Y., Brown, R. A., Gupta, R. K., Curtis, C., Bucktrout, et al  
2019
- **Reply to: "Use of immortal time within survival analysis"** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*  
Lee, C., Li, S., Duy Cong Tran, Zhu, G., Kim, J., Kwong, B. Y., Chang, A. S.  
2019; 80 (1): E19–E20
- **Massively parallel single-cell chromatin landscapes of human immune cell development and intratumoral T cell exhaustion.** *Nature biotechnology*  
Satpathy, A. T., Granja, J. M., Yost, K. E., Qi, Y., Meschi, F., McDermott, G. P., Olsen, B. N., Mumbach, M. R., Pierce, S. E., Corces, M. R., Shah, P., Bell, J. C., Jhutti, et al  
2019; 37 (8): 925–36
- **Enhancer connectome nominates target genes of inherited risk variants from inflammatory skin disorders.** *The Journal of investigative dermatology*  
Jeng, M. Y., Mumbach, M. R., Granja, J. M., Satpathy, A. T., Chang, H. Y., Chang, A. L.  
2018
- **Response to the Letter to the Editor entitled, "Use of immortal time within survival analysis": JAAD-D-18-01157.** *Journal of the American Academy of Dermatology*  
Min Lee, C. K., Li, S., Tran, D. C., Zhu, G. A., Kim, J., Kwong, B. Y., Chang, A. L.  
2018
- **A case of combination PD-1 inhibitor and intralesional 5-fluorouracil for high-frequency nonmelanoma skin cancers in an immunocompromised patient**  
Duy Tran, Lee, C., Colevas, A., Chang, A.  
MOSBY-ELSEVIER.2018: AB6

- **Reaction patterns of dermatitis arising during PD-1/PD-L1 inhibitor therapy and association with tumor response**  
Lee, C., Li, S., Zhu, A., Kim, J., Duy Tran, Kwong, B., Chang, A.  
MOSBY-ELSEVIER.2018: AB239
- **Differences in skin aging characteristics in women of East Asian versus European descent residing in the same geographic location**  
Guan, L., Zhu, A., Li, S., Montana, M., Kern, D., Knaggs, H., Chang, A.  
MOSBY-ELSEVIER.2018: AB108
- **Recurrence outcomes for nonmelanoma skin cancer after adjuvant radiation**  
Cannon, J., Li, S., Chang, A.  
MOSBY-ELSEVIER.2018: AB241
- **Levodopa for vismodegib-associated muscle spasms: A pilot randomized, double-blind, placebo-controlled, investigator-initiated trial**  
Chang, A., Cannon, J., Tran, D., Li, S.  
MOSBY-ELSEVIER.2018: AB178
- **Retrospective comparison of the clinical effects of programmed death protein 1 inhibitors to treat melanoma versus nonmelanoma skin cancer**  
Jin, M., Li, S., Duy Tran, Henry, S., Wood, D., Chang, A.  
MOSBY-ELSEVIER.2018: AB246
- **An exploratory, open-label, investigator-initiated study to evaluate the efficacy and safety of combination sonidegib and buparlisib for advanced basal cell carcinomas**  
Duy Tran, Zhu, A., Chang, A.  
MOSBY-ELSEVIER.2018: AB38
- **Frequent basal cell cancer development is a clinical marker for inherited cancer susceptibility** *JCI INSIGHT*  
Cho, H. G., Kuo, K. Y., Li, S., Bailey, I., Aasi, S., Chang, A. S., Oro, A. E., Tang, J. Y., Sarin, K. Y.  
2018; 3 (15)
- **Unintended widespread facial autoinoculation of varicella by home microneedling roller device.** *JAAD case reports*  
Leatham, H., Guan, L., Chang, A. L.  
2018; 4 (6): 546–47
- **Levodopa for vismodegib-associated muscle spasms: a pilot randomized, double-blind, placebo-controlled, investigator-initiated trial** *JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY*  
Cannon, J. D., Tran, D. C., Li, S., Chang, A. S.  
2018; 32 (7): E298–E299
- **Genetic fine-mapping of the Iowan SNCA gene triplication in a patient with Parkinson's disease** *NPJ PARKINSONS DISEASE*  
Zafar, F., Valappil, R., Kim, S., Johansen, K. K., Chang, A. S., Tetrud, J. W., Eis, P. S., Hatchwell, E., Langston, J., Dickson, D. W., Schule, B.  
2018; 4: 18
- **Characterization of dermatitis after PD-1/PD-L1 inhibitor therapy and association with multiple oncologic outcomes: a retrospective case-control study.** *Journal of the American Academy of Dermatology*  
Min Lee, C. K., Li, S., Tran, D. C., Zhu, G. A., Kim, J., Kwong, B. Y., Chang, A. L.  
2018
- **Primary analysis of phase 2 results for cemiplimab, a human monoclonal anti-PD-1, in patients with metastatic cutaneous squamous cell carcinoma (mCSCC)**  
Rischin, D., Migden, M., Chang, A., Chung, C. H., Dunn, L., Guminski, A., Hauschild, A., Hernandez-Aya, L., Hughes, B., Lewis, K. D., Lim, A., Modi, B., Schandendorf, et al  
AMER SOC CLINICAL ONCOLOGY.2018
- **Frequent basal cell cancer development is a clinical marker for inherited cancer susceptibility**  
Cho, H., Kuo, K., Li, S., Bailey-Healy, I., Aasi, S., Chang, A., Oro, A. E., Epstein, E., Tang, J., Sarin, K. Y.  
ELSEVIER SCIENCE INC.2018: S28
- **Enhancer connectome functionally interrogates GWAS-identified intergenic SNPs associated with inflammatory skin conditions**  
Jeng, M. Y., Mumbach, M. R., Granja, J. M., Satpathy, A. T., Chang, H., Chang, A.  
ELSEVIER SCIENCE INC.2018: S140

- **Adjuvant radiotherapy following resection for non-melanoma skin cancer: A retrospective analysis of recurrence risk at Stanford**  
Cannon, J. D., Li, S., Hara, W., Chang, A.  
ELSEVIER SCIENCE INC.2018: S93
- **An exploratory open-label, investigator-initiated study to evaluate the efficacy and safety of combination sonidegib and buparlisib for advanced basal cell carcinomas** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*  
Tran, D., Moffat, A., Brotherton, R., Pague, A., Zhu, G., Chang, A. S.  
2018; 78 (5): 1011–13
- **Association of tumor response to PD-1/PD-L1 immunotherapy and type of dermatitis that arises after the immunotherapy**  
Lee, C., Li, S., Tran, D., Zhu, A., Kim, J., Kwong, B., Chang, A.  
ELSEVIER SCIENCE INC.2018: S90
- **Differences in skin aging characteristics in women of East Asian versus European descent residing in the same geographic location**  
Guan, L., Zhu, G. A., Li, S., Montana, M., Kern, D., Knaggs, H. E., Chang, A.  
ELSEVIER SCIENCE INC.2018: S216
- **Levocarnitine for vismodegib-associated muscle spasms: a pilot randomized, double-blind, placebo-controlled, investigator-initiated trial.** *Journal of the European Academy of Dermatology and Venereology : JEADV*  
Cannon, J. G., Tran, D. C., Li, S., Chang, A. S.  
2018
- **PD-1 blockade with cemiplimab in advanced squamous cell carcinoma** *New England Journal of Medicine*  
Migden, M. R., Rischin, D., Schmults, C. D., Guminski, A., Hauschild, A., Lewis, K., Chung, C. H., Hernandez-Aya, L., Lim, A., Chang, A. S., et al  
2018
- **Long-term efficacy and safety of sonidegib in patients with locally advanced and metastatic basal cell carcinoma: 30-month analysis of the randomized phase 2 BOLT study.** *Journal of the European Academy of Dermatology and Venereology : JEADV*  
Lear, J. T., Migden, M. R., Lewis, K. D., Chang, A. L., Guminski, A., Gutzmer, R., Dirix, L., Combemale, P., Stratigos, A., Plummer, R., Castro, H., Yi, T., Mone, et al  
2018; 32 (3): 372–81
- **Evidence-based update on rosacea comorbidities and their common physiologic pathways.** *Journal of the American Academy of Dermatology*  
Holmes, A. D., Spoenclin, J., Chien, A. L., Baldwin, H., Chang, A. L.  
2018; 78 (1): 156–66
- **Emerging trends in the treatment of advanced basal cell carcinoma.** *Cancer treatment reviews*  
Migden, M. R., Chang, A. L., Dirix, L., Stratigos, A. J., Lear, J. T.  
2018; 64: 1–10
- **PD-1 Blockade with Cemiplimab in Advanced Cutaneous Squamous-Cell Carcinoma.** *The New England journal of medicine*  
Migden, M. R., Rischin, D., Schmults, C. D., Guminski, A., Hauschild, A., Lewis, K. D., Chung, C. H., Hernandez-Aya, L., Lim, A. M., Chang, A. L., Rabinowits, G., Thai, A. A., Dunn, et al  
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