



Anne Lynn S. Chang, MD

Professor of Dermatology

CLINICAL OFFICE (PRIMARY)

- **Medical Dermatology**

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Bio

BIO

Anne Lynn S. Chang, M.D., M.A. is a Professor of Dermatology who is dedicated to improving patient care through research and education. She is the Founding 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, skin longevity and better treatment for diseases related to aging skin, including new and better treatments for advanced basal and squamous cell skin cancers. She has experience in multiple clinical trials including investigator-initiated studies and multicenter industry-sponsored-studies leading to FDA approval for the first drugs to treat advanced basal cell and squamous cell skin cancer. In addition, she has conducted impactful translational research with collaborators into mechanisms underlying skin aging, rejuvenation and longevity. She is an affiliate of the Stanford Longevity Center. Overall, she has published over 100 articles in peer reviewed journals. She is devoted to training the next generations of clinician-researchers so that efforts to improve patient care will endure. A native of Southern California, Dr. Chang is a summa cum laude graduate of Harvard College, and a graduate of Harvard Medical School.

CLINICAL FOCUS

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

ACADEMIC APPOINTMENTS

- Professor - University Medical 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)
- Faculty Affiliate, Stanford Longevity Center, (2023- 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 - 2018)
- Education Committee Member, 2019-2023 Moderator, Future Leaders Retreat 2023, Society of Investigative Dermatology (2019 - 2023)
- Co-chair, Society of Investigative Dermatology, Future Leaders Retreat (2023 - 2023)
- Editorial board member, Cureus (2023 - present)
- Editorial board member, Journal of the American Academy of Dermatology (JAAD) Reviews (2024 - present)

PROFESSIONAL EDUCATION

- Residency: Stanford University Dept of Dermatology (2007) CA
- Residency: UCSF Obstetrics and Gynecology (2002) 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/>
- Complete List of Published Work in My Bibliography: <https://www.ncbi.nlm.nih.gov/myncbi/anne.chang.1/bibliography/public/>

Research & Scholarship

RESEARCH INTERESTS

- Curriculum and Instruction
- Data Sciences
- Diversity and Identity
- Higher Education
- Leadership and Organization
- Lifelong Learning
- Race and Ethnicity
- Research Methods
- Science Education
- Teachers and Teaching

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

- 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
- CemiplimAb Survivorship Epidemiology, Not Recruiting
- Clascoterone for Steroid-related Acne Vulgaris in Transgender Male Patients Receiving Masculinizing Hormone Therapy, Not Recruiting
- Human Skin Aging: Clinical Parameters and Gene Expression Profiling, Not Recruiting
- Intralesional Cemiplimab for Adult Patients With Cutaneous Squamous Cell Carcinoma or Basal Cell Carcinoma, 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 (MK-3475) Versus Placebo Following Surgery and Radiation in Participants With Locally Advanced Cutaneous Squamous Cell Carcinoma (MK-3475-630/KEYNOTE-630), 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 Smoothened 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
- Study of REGN2810 in Patients With Advanced Cutaneous Squamous Cell Carcinoma, Not Recruiting
- Vismodegib in Treating Patients With Basal Cell Carcinoma (BCC), Not Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Gabriel Oh

Publications

PUBLICATIONS

- **Resolution of metastatic neck nodes associated with a periauricular cutaneous squamous cell carcinoma after intranodal injection of talimogene laherparepvec.** *JAAD case reports*
Che, Y., Chong, C., Limova, M., Morris, L., Reddy, S. A., Chang, A. L.
2024; 46: 92-94
- **Resolution of Metastatic Neck Nodes Associated with a Peri-auricular Cutaneous Squamous Cell Carcinoma After Intranodal Injection of Talimogene Laherparepvec** *Journal of the American Academy of Dermatology*
Che, Y., Chong, C., Limova, M., Morris, L., Reddy, S., Chang, A. S.
2024; In press
- **Assessment of mTOR pathway activation in basal cell carcinoma as a new therapeutic approach** *American Journal of Dermatopathology*
Chang, A. S., Brown, R., Li, S., Betancourt, N., Teng, J.
2024; Accepted
- **Final analysis of phase II results with cemiplimab in metastatic basal cell carcinoma after hedgehog pathway inhibitors.** *Annals of oncology : official journal of the European Society for Medical Oncology*
Lewis, K. D., Peris, K., Sekulic, A., Stratigos, A. J., Dunn, L., Eroglu, Z., Chang, A. L., Migden, M. R., Yoo, S. Y., Mohan, K., Coates, E., Okoye, E., Bowler, et al
2023
- **Phase 2 open-label, multicenter, single-arm study of cemiplimab in patients with locally advanced basal cell carcinoma after hedgehog inhibitor therapy: Extended follow-up.** *Journal of the American Academy of Dermatology*
Stratigos, A. J., Sekulic, A., Peris, K., Bechter, O., Prey, S., Lewis, K. D., Basset-Seguín, N., Chang, A. L., Dalle, S., Fernandez Orland, A., Licitra, L., Robert, C., Ulrich, et al
2023
- **An exploratory, comparative case series of calcitonin gene-related peptide monoclonal antibodies in migraine patients with rosacea.** *The British journal of dermatology*
Sia, T., Webb, T., Li, S., Moskatel, L. S., Chang, A. L.
2023
- **Advances in cutaneous squamous cell carcinoma.** *Nature reviews. Cancer*
Winge, M. C., Kellman, L. N., Guo, K., Tang, J. Y., Swetter, S. M., Aasi, S. Z., Sarin, K. Y., Chang, A. L., Khavari, P. A.
2023
- **Immunotherapy for keratinocyte cancers. Part II: Identification and management of cutaneous side effects of immunotherapy treatments.** *Journal of the American Academy of Dermatology*
Chang, A. L., Zaba, L., Kwong, B. Y.
2023; 88 (6): 1243-1255
- **Use of calcitonin gene-related peptide monoclonal antibodies in patients with rosacea: An exploratory, comparative case series**
Sia, T., Webb, T., Li, S., Moskatel, L., Chang, A. L.

ELSEVIER SCIENCE INC.2023: S80

- **Immunotherapy for Keratinocyte Cancers. Part 1: Immune-Related Epidemiology, Risk Factors, Pathogenesis, and Immunotherapy Management of Keratinocytic Cancers** *Journal of the American Academy of Dermatology*
Neuner, R., Lee, J., Park, C., Rieger, K. E., Colevas, A. D., Chang, A. S.
2023; 88 (6): 1225-1240
- **Correlation of Ultraviolet Radiation Levels With the Incidence of Cutaneous Squamous Cell and Merkel Cell Carcinomas in Non-sunbelt Locales in the United States: 2010-2017** *Cureus*
Vora, P. S., Li, S., Oh, G., Webb, T., Perry, W., Park, C., Chang, A. S.
2023; 15 (6): e40099
- **Incorporating the "4Ms" framework to improve outpatient geriatric dermatology care.** *Journal of the American Geriatrics Society*
Perry, W. M., Vora, P., Oh, G., Park, C., Chang, A. L.
2022
- **Primary analysis of Phase 2 results for cemiplimab in patients with metastatic basal cell carcinoma who progressed on or were intolerant to hedgehog inhibitors**
Lewis, K. D., Perris, K., Sekulic, A., Stratigos, A., Duecker, P., Eroglu, Z., Chang, A. S., Migden, M. R., Yoo, S. Y., Mohan, K., Coates, E., Okoye, E., Baurain, et al
WILEY.2022: 105-106
- **Phase II study of cemiplimab in patients with advanced cutaneous squamous cell carcinoma (CSCC): Final analysis from EMPOWER-CSCC-1 groups 1, 2 and 3**
Migden, M. R., Schmults, C., Khushanlani, N., Guminski, A., Chang, A. L., Lewis, K., Ansstas, G., Bowyer, S. E., Hughes, B. M., Schadendorf, D., Modi, B., Dunn, L., Flatz, et al
ELSEVIER.2022: S918-S919
- **Phase 2 study of cemiplimab in patients with locally advanced basal cell carcinoma after hedgehog inhibitor therapy: Long-term follow-up**
Stratigos, A., Sekulic, A., Perris, K., Bechter, O., Prey, S., Kaatz, M., Lewis, K. D., Basset-Sequin, N., Chang, A. S., Dalle, S., Orland, A., Licitra, L., Robert, et al
WILEY.2022: 38-39
- **Partnering with a senior living community to optimize teledermatology via full body skin screening during the COVID-19 pandemic: a pilot program** *Skin Health and Disease*
Trinh, P., Yekrang, K., Phung, M., Pugliese, S., Chang, A., Bailey, E., Ko, J., Sarin, K.
2022
- **Recurrent bilateral cutaneous squamous cell carcinoma arising within pretibial hypertrophic lichen planus with metastasis while on cemiplimab** *Journal of the American Academy of Dermatology Case Reports*
Leeolou, M., Burgren, N., Lee, C., Momeni, A., Pinto, H., Johannet, P., Nord, K., Chang, A. S.
2022
- **Real-world assessment and treatment of locally advanced basal cell carcinoma: Findings from the RegiSONIC disease registry.** *PLoS one*
Sekulic, A., Yoo, S., Kudchadkar, R., Guillen, J., Rogers, G., Chang, A. L., Guenther, S., Raskin, B., Dawson, K., Mun, Y., Chu, L., McKenna, E., Lacouture, et al
1800; 17 (1): e0262151
- **Phase 2 study of cemiplimab in patients with advanced cutaneous squamous cell carcinoma (CSCC): follow-up at 43 months**
Rischin, D., Khushanlani, 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
WILEY.2021: 166
- **A 10-year retrospective cohort study of ruxolitinib and association with non-melanoma skin cancer in polycythemia vera and myelofibrosis patients.** *Journal of the American Academy of Dermatology*
Lin, J. Q., Li, S. Q., Li, S., Kiamanesh, E. F., Aasi, S. Z., Kwong, B. Y., Chang, A. L.
2021
- **Health-related Quality of Life (HRQoL) in Patients with advanced cutaneous Squamous Cell Carcinoma (CSCC) treated with Cemiplimab: Post hoc exploratory Analysis of a clinical Phase-2-Study**
Migden, M. R., Rischin, D., Sasane, M., Mastey, V., Pavlick, A., Schmults, C. D., Chen, Z., Guminski, A., Hauschild, A., Bury, D., Chang, A. S., Rabinowits, G., Ibrahim, et al
WILEY.2021: 22

- **Antineoplastic therapy after discontinuation of sonidegib 200 mg in patients with advanced basal cell carcinoma: Results from the 42-month, randomized, double-blind BOLT study**
Gutzmer, R., Guminski, A., Foley, P., Chang, A. S., Lewis, K., Squitieri, N., Loquai, C.
MOSBY-ELSEVIER.2021: AB89
- **Primary Analysis of Phase-2-Results for Cemiplimab in Patients (pts) with locally advanced Basal Cell Carcinoma (laBCC) who progress or cannot tolerate Hedgehog Inhibitors (HHI)**
Stratigos, A. J., Sekulic, A., Peris, K., Bechter, O., Dutriaux, C., Kaatz, M., Lewis, K. D., Basset-Seguín, N., Chang, A. S., Dalle, S., Orland, A., Licitra, L., Robert, et al
WILEY.2021: 41-42
- **Integrated analysis of a phase 2 study of cemiplimab in advanced cutaneous squamous cell carcinoma: extended follow-up of outcomes and quality of life analysis.** *Journal for immunotherapy of cancer*
Rischin, D., Khushalani, N. I., Schmults, C. D., Guminski, A., Chang, A. L., Lewis, K. D., Lim, A. M., Hernandez-Aya, L., Hughes, B. G., Schadendorf, D., Hauschild, A., Thai, A. A., Stankevich, et al
2021; 9 (8)
- **Cemiplimab in locally advanced basal cell carcinoma after hedgehog inhibitor therapy: an open-label, multi-centre, single-arm, phase 2 trial.** *The Lancet. Oncology*
Stratigos, A. J., Sekulic, A., Peris, K., Bechter, O., Prey, S., Kaatz, M., Lewis, K. D., Basset-Seguín, N., Chang, A. L., Dalle, S., Orland, A. F., Licitra, L., Robert, et al
2021
- **Association of ruxolitinib with NMSCs risk in patients with polycythemia vera and myelofibrosis**
Lin, J., Li, S., Li, S., Kiamanesh, E., Aasi, S., Kwong, B., Chang, A.
ELSEVIER SCIENCE INC.2021: S43
- **First reported case of *Wohlfahrtiimonas chitiniclastica* infection in California** *JAAD Case Reports* *Journal of the American Academy of Dermatology Case Reports*
Leelou, M. C., Perrault, D. P., Siravaj, D., Chang, A. S., Chen, K., Trotsyuk, A., Padmanabhan, J., Gurtner, G. C.
2021
- **An exploratory, open-label study of secukinumab in patients with moderate to severe papulopustular rosacea**
Kumar, A. M., Chiou, A. S., Shih, Y., Li, S., Chang, A. S.
MOSBY-ELSEVIER.2020: AB88
- **INTERIM ANALYSIS OF PHASE 2 RESULTS FOR CEMIPLIMAB IN PATIENTS WITH METASTATIC BASAL CELL CARCINOMA (MBCC) WHO PROGRESSED ON OR ARE INTOLERANT TO HEDGEHOG INHIBITORS (HHIS)**
Lewis, K., Peris, K., Sekulic, A., Stratigos, A., Dunn, L., Eroglu, Z., Chang, A., Migden, M., Li, S., Mohan, K., Coates, E., Okoye, E., Baurain, et al
BMJ PUBLISHING GROUP.2020: A260–A261
- **Metastatic cutaneous squamous cell carcinoma responsive to cemiplimab in a patient with multiple myeloma.** *JAAD case reports*
Marukian, N. V., Lin, J. Q., Colevas, A. D., Coutre, S., Chang, A. L.
2020; 6 (9): 819–21
- **Time to clinically meaningful changes in pain in patients with advanced cutaneous squamous cell carcinoma treated with cemiplimab in a phase II clinical trial**
Migden, M. R., Rischin, D., Hudgens, S., Chen, C., Schmults, C. D., Pavlick, A. C., Guminski, A., Hauschild, A., Chen, Z., Mastey, V., Bury, D., Chang, A. S., Rabinowits, et al
ELSEVIER.2020: S738
- **Primary analysis of phase II results for cemiplimab in patients (pts) with locally advanced basal cell carcinoma (laBCC) who progress on or are intolerant to hedgehog inhibitors (HHIs)**
Stratigos, A. J., Sekulic, A., Peris, K., Bechter, O., Dutriaux, C., Kaatz, M., Lewis, K. D., Basset-Seguín, N., Chang, A. S., Dalle, S., Fernandez-Orland, A., Licitra, L., Robert, et al
ELSEVIER.2020: S1175–S1176
- **IL-1 beta is a potential central mediator to Papulopustular Rosacea pathology as determined by paired transcriptomic and proteomic analysis**
Harden, J., Shih, Y., Rajendran, D., Xu, J., Li, R., Hofland, H., Chang, A. L.
ELSEVIER SCIENCE INC.2020: S114

- **In-progress validation of candidate rosacea genes by targeted interrogation of alleles and assessment of rosacea comorbidities**
Kumar, A., Shih, Y., Chiou, A., Li, S., Chang, A. L.
ELSEVIER SCIENCE INC.2020: S33
- **A phase I study of CX-4945 administered orally twice daily to patients with advanced basal cell carcinoma.**
Eroglu, Z., Cowey, C., Soong, J., McCormick, D., Fan, P., Chen, J., Elgendy, M., Jang, S., Chang, A. S.
LIPPINCOTT WILLIAMS & WILKINS.2020
- **Health-related quality of life (HRQL) in patients with advanced cutaneous squamous cell carcinoma (CSCC) treated with cemiplimab: Post hoc exploratory analyses of a phase II clinical trial.**
Migden, M., Rischin, D., Sasane, M., Mastey, V., Pavlick, A., Schmults, C. D., Chen, Z., Guminski, A., Hauschild, A., Bury, D., Chang, A. S., Rabinowits, G., Ibrahim, et al
AMER SOC CLINICAL ONCOLOGY.2020
- **Phase II study of cemiplimab in patients (pts) with advanced cutaneous squamous cell carcinoma (CSCC): Longer follow-up.**
Rischin, D., Khushalani, N. I., Schmults, C. D., Guminski, A., Chang, A. S., Lewis, K. D., Lim, A., Hernandez-Aya, L., Hughes, B., Schadendorf, D., Hauschild, A., Stankevich, E., Booth, et al
AMER SOC CLINICAL ONCOLOGY.2020
- **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*
Rischin, D. n., Migden, M. R., Lim, A. M., Schmults, C. D., Khushalani, N. I., Hughes, B. G., Schadendorf, D. n., Dunn, L. A., Hernandez-Aya, L. n., Chang, A. L., Modi, B. n., Hauschild, A. n., Ulrich, et al
2020; 8 (1)
- **Pathophysiology of Basal Cell Carcinoma and Its Associated Genetic Syndromes** *BASAL CELL CARCINOMA: ADVANCES IN TREATMENT AND RESEARCH*
Chang, A. S., Migden, M. R., Chen, L., Silapunt, S.
2020: 19-23
- **Paired Transcriptomic and Proteomic Analysis Implicates IL-1# in the Pathogenesis of Papulopustular Rosacea Explants.** *The Journal of investigative dermatology*
Harden, J. L., Shih, Y. H., Xu, J. n., Li, R. n., Rajendran, D. n., Hofland, H. n., Chang, A. L.
2020
- **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. n., Guan, L. n., Zhao, L. n., Palli, M. A., Horn, T. D., Dudek, A. Z., McTavish, H. n.
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)**
Rischin, 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)**
Rischin, 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**
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