

Stanford



Kavita Sarin, MD, PhD

Associate Professor of Dermatology at the Stanford University Medical Center

CLINICAL OFFICES

- **Dermatology North Campus**

450 Broadway St

Pavilion C 2nd Fl MC 5334

Redwood City, CA 94063

Tel (650) 723-6316

Fax (650) 725-3476

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Averley Mayo - Administrative Assistant

Email amayo@stanford.edu

Bio

BIO

Kavita Sarin, M.D./ Ph.D., is an Associate Professor of Dermatology. She has an academic interest in Personalized Medicine, focused on the integration of genetic and clinical patient data to inform disease susceptibility, stratify prognosis, and direct treatments in dermatologic disease. She sees patients in medical dermatology at Portola Valley and directs a specialized Skin Cancer Genetics clinic.

CLINICAL FOCUS

- Dermatology
- Bioinformatics
- Basal Cell Carcinoma
- Precision Dermatology
- Skin Cancers
- Genetic Skin Disease
- hidradenitis
- Neurofibromatosis Type 1

ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Dermatology
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Assistant Professor in Dermatology, Stanford University Medical Center, (2013- present)
- Clinical Instructor in Dermatology, Stanford University Medical Center, (2012-2013)

HONORS AND AWARDS

- Damon Runyon Clinical Investigator Award, Damon Runyon (2019-2022)
- K23 NCI Career Development Award, National Institutes of Health (2017-2022)
- Medical Dermatology Career Development Award, Dermatology Foundation (2014-2017)
- F32 NRSA Ruth L. Kirschstein National Research Service Award, National Institutes of Health (2013-2014)
- Medical Scientist Training Program Scholarship, National Institutes of Health (2000-2008)
- President's Scholar, Stanford University (1996-2000)
- Unsung Hero Award, NBC (1996)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Children's Health Research Institute (2017 - present)
- Fellow, American Academy of Dermatology (2009 - present)
- Member, Society of Investigative Dermatology (2014 - present)

PROFESSIONAL EDUCATION

- Residency: Stanford University Dept of Dermatology (2012) CA
- Internship: Santa Clara Valley Medical Center Radiology Residency (2009) CA
- Board Certification: Dermatology, American Board of Dermatology (2012)
- Medical Education: Stanford University Medical Center (2008) CA
- PhD, Stanford University- Dept of Genetics , CA (2006)
- BS, Stanford University- Computer Science , CA (2000)

LINKS

- Kavita Sarin Lab: <https://www.sarinlab.com>
- How to use big data to treat and manage diseases: <http://dermatologytimes.modernmedicine.com/dermatology-times/news/how-use-big-data-treat-and-manage-diseases>
- Behind method for activating adult stem cells, a shaggy-mouse story: <http://news.stanford.edu/news/2005/august24/mice-082405.html>
- Is telomerase moonlighting?: <http://www.the-scientist.com/?articles.view/articleNo/16711/title/Is-telomerase-moonlighting-#.VtPX0RCxO3s.mailto>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research encompasses two main areas: 1) Using next-generation RNA, whole genome, and exome sequencing, we are investigating the genetic alterations involved in skin cancer progression, response to therapy, and other clinical outcomes and 2) We are developing and implementing genome-wide genetic risk prediction assessments for skin cancer into clinical use and studying the impact of this information on patient care.

CLINICAL TRIALS

- Topical Remetinostat Gel as Neoadjuvant Therapy in Patients With Squamous Cell Carcinoma (SCC), Recruiting
- Topical Remetinostat in Treating Patient With Cutaneous Basal Cell Cancer, Recruiting
- Analysis of Cutaneous and Hematologic Disorders by High-Throughput Nucleic Acid Sequencing, Not Recruiting
- Open-label Pilot Clinical Trial of Oral Ivermectin to Treat Atopic Dermatitis, Not Recruiting

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

James Kilgour

Publications

PUBLICATIONS

- **Angular compounding for speckle reduction in optical coherence tomography using geometric image registration algorithm and digital focusing.** *Scientific reports*
Zhao, J., Winetraub, Y., Yuan, E., Chan, W. H., Aasi, S. Z., Sarin, K. Y., Zohar, O., de la Zerda, A.
2020; 10 (1): 1893
- **Genome-wide meta-analysis identifies eight new susceptibility loci for cutaneous squamous cell carcinoma.** *Nature communications*
Sarin, K. Y., Lin, Y., Daneshjou, R., Ziyatdinov, A., Thorleifsson, G., Rubin, A., Pardo, L. M., Wu, W., Khavari, P. A., Uitterlinden, A., Nijsten, T., Toland, A. E., Olafsson, et al
2020; 11 (1): 820
- **Skin Disease Activity and Autoantibody Phenotype Are Major Determinants of Blood Interferon Signatures in Dermatomyositis**
Tabata, M., Sarin, K., Page, K., Huard, C., Zhao, S., Bennett, D., Johnson, J., Johnson, K., Fiorentino, D.
WILEY.2019
- **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
- **A Double-Blind, Placebo-Controlled, Phase 2 Trial of a Novel Toll-Like Receptor 7/8/9 Antagonist (IMO-8400) in Dermatomyositis**
Kim, Y., Schioppa, E., Danko, K., Mozaffar, T., Chunduru, S., Lees, K., Goyal, N., Fiorentino, D., Sarin, K.
WILEY.2019
- **Hyperhidrosis affects quality of life in hidradenitis suppurativa: a prospective analysis.** *Journal of the American Academy of Dermatology*
Hua, V. J., Kuo, K. Y., Cho, H. G., Sarin, K. Y.
2019
- **Response to Clarifying the Current Understanding of Syndromic Basal Cell Carcinomas.** *The Journal of investigative dermatology*
Chiang, A., Batra, P., Sarin, K. Y.
2019
- **Loss of Primary Cilia Drives Switching from Hedgehog to Ras/MAPK Pathway in Resistant Basal Cell Carcinoma** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Kuonen, F., Huskey, N. E., Shankar, G., Jaju, P., Whitson, R. J., Rieger, K. E., Atwood, S. X., Sarin, K. Y., Oro, A. E.
2019; 139 (7): 1439–48
- **Biomarker discovery analysis: Alterations in p14, p16, p53, and BAP1 expression in nevi, cutaneous melanoma, and metastatic melanoma** *PIGMENT CELL & MELANOMA RESEARCH*
Sargen, M. R., Cloutier, J. M., Sarin, K. Y., Rieger, K. E., Chu, P., Swetter, S. M., Novoa, R. A.
2019; 32 (3): 474–78
- **Alterations of the MEK/ERK, BMP, and Wnt/beta-catenin pathways detected in the blood of individuals with lymphatic malformations** *PLOS ONE*
Kim, T., Tafoya, E., Chelliah, M. P., Lekwuttikarn, R., Li, J., Sarin, K. Y., Teng, J.
2019; 14 (4)
- **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

- **Emerging technologies for health information in dermatology: opportunities and drawbacks of web-based searches, social media, mobile applications, and direct-to-consumer genetic testing in patient care** *SEMINARS IN CUTANEOUS MEDICINE AND SURGERY*
Jia, J. L., Polin, D. J., Sarin, K. Y.
2019; 38 (1): E57–E63
- **Loss of primary cilia drives switching from Hedgehog to Ras/MAPK pathway in resistant basal cell carcinoma.** *The Journal of investigative dermatology*
Kuonen, F., Huskey, N. E., Shankar, G., Jaju, P., Whitson, R. J., Rieger, K. E., Atwood, S. X., Sarin, K. Y., Oro, A. E.
2019
- **Biomarker discovery analysis: Alterations in p14, p16, p53, and BAP1 expression in nevi, cutaneous melanoma, and metastatic melanoma.** *Pigment cell & melanoma research*
Sargen, M. R., Cloutier, J. M., Sarin, K. Y., Rieger, K. E., Chu, P., Swetter, S. M., Novoa, R. A.
2019
- **From Clinical Phenotype to Genotypic Modelling: Incidence and Prevalence of Recessive Dystrophic Epidermolysis Bullosa (RDEB)** *CLINICAL COSMETIC AND INVESTIGATIONAL DERMATOLOGY*
Eichstadt, S., Tang, J. Y., Solis, D. C., Sibrashvili, Z., Marinkovich, M., Whitehead, N., Schu, M., Fang, F., Erickson, S. W., Ritchey, M. E., Colao, M., Spratt, K., Shaygan, et al
2019; 12: 933–42
- **Assessment of readability and content of patient-initiated google search results for epidermolysis bullosa.** *Pediatric dermatology*
Jia, J. L., Nguyen, B., Sarin, K. Y.
2019
- **From Clinical Phenotype to Genotypic Modelling: Incidence and Prevalence of Recessive Dystrophic Epidermolysis Bullosa (RDEB).** *Clinical, cosmetic and investigational dermatology*
Eichstadt, S., Tang, J. Y., Solis, D. C., Sibrashvili, Z., Marinkovich, M. P., Whitehead, N., Schu, M., Fang, F., Erickson, S. W., Ritchey, M. E., Colao, M., Spratt, K., Shaygan, et al
2019; 12: 933–42
- **Comparing Online Engagement and Academic Impact of Dermatology Research: An Altmetric Attention Score and PlumX Metrics Analysis.** *Journal of the American Academy of Dermatology*
Jia, J. L., Nguyen, B., Mills, D. E., Polin, D. J., Sarin, K. Y.
2019
- **Alterations of the MEK/ERK, BMP, and Wnt/beta-catenin pathways detected in the blood of individuals with lymphatic malformations.** *PLoS one*
Kim, T., Tafoya, E., Chelliah, M. P., Lekwuttikarn, R., Li, J., Sarin, K. Y., Teng, J.
2019; 14 (4): e0213872
- **Emerging technologies for health information in dermatology: opportunities and drawbacks of web-based searches, social media, mobile applications, and direct-to-consumer genetic testing in patient care.** *Seminars in cutaneous medicine and surgery*
Jia, J. L., Polin, D. J., Sarin, K. Y.
2019; 38 (1): E57–E53
- **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
- **Early Detection of Adverse Drug Reactions in Social Health Networks: A Natural Language Processing Pipeline for Signal Detection.** *JMIR public health and surveillance*
Nikfarjam, A., Ransohoff, J. D., Callahan, A., Jones, E., Loew, B., Kwong, B. Y., Sarin, K. Y., Shah, N. H.
2019; 5 (2): e11264
- **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
- **Topical Itraconazole for the Treatment of Basal Cell Carcinoma in Patients With Basal Cell Nevus Syndrome or High-Frequency Basal Cell Carcinomas: A Phase 2, Open-Label, Placebo-Controlled Trial.** *JAMA dermatology*
Sohn, G. K., Kwon, G. P., Bailey-Healy, I., Mirza, A., Sarin, K., Oro, A., Tang, J. Y.

2019

- **A Subset of Mesotheliomas With Improved Survival Occurring in Carriers of BAP1 and Other Germline Mutations.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Pastorino, S., Yoshikawa, Y., Pass, H. I., Emi, M., Nasu, M., Pagano, I., Takinishi, Y., Yamamoto, R., Minaai, M., Hashimoto-Tamaoki, T., Ohmuraya, M., Goto, K., Goparaju, et al
2018; JCO2018790352
- **Automated Classification of Skin Lesions: From Pixels to Practice.** *The Journal of investigative dermatology*
Narla, A., Kuprel, B., Sarin, K., Novoa, R., Ko, J.
2018; 138 (10): 2108–10
- **Association of multiple primary melanomas with malignancy risk: a population-based analysis of the Surveillance, Epidemiology, and End Results Program database from 1973-2014.** *Journal of the American Academy of Dermatology*
Cai, E. D., Swetter, S. M., Sarin, K. Y.
2018
- **Inverse Relationship between Vitiligo-Related Genes and Skin Cancer Risk** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Wu, W., Amos, C. I., Lee, J. E., Wei, Q., Sarin, K. Y., Han, J., 23andMe Res Team
2018; 138 (9): 2072–75
- **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)
- **TGF-beta, Fibronectin and Integrin alpha5beta1 Promote Invasion in Basal Cell Carcinoma.** *The Journal of investigative dermatology*
Kuonen, F., Surbeck, I., Sarin, K. Y., Dontenwill, M., Ruegg, C., Gilliet, M., Oro, A. E., Gaide, O.
2018
- **Identification of Atorvastatin for Moderate to Severe Hidradenitis through Drug Repositioning Using Public Gene Expression Datasets** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Kuo, K. Y., Cho, H., Sarin, K. Y.
2018; 138 (5): 1209–12
- **Melanoma risk prediction using a multilocus genetic risk score in the Women's Health Initiative cohort.** *Journal of the American Academy of Dermatology*
Cho, H. G., Ransohoff, K. J., Yang, L., Hedlin, H., Assimes, T., Han, J., Stefanick, M., Tang, J. Y., Sarin, K. Y.
2018
- **Detecting Chemotherapeutic Skin Adverse Reactions in Social Health Networks Using Deep Learning.** *JAMA oncology*
Ransohoff, J. D., Nikfarjam, A., Jones, E., Loew, B., Kwong, B. Y., Sarin, K. Y., Shah, N. H.
2018; 4 (4): 581–83
- **Pembrolizumab for advanced basal cell carcinoma: an investigator-initiated, proof-of-concept study.** *Journal of the American Academy of Dermatology*
Chang, A. L., Tran, D. C., Cannon, J. G., 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
2018
- **Noncanonical hedgehog pathway activation through SRF-MKL1 promotes drug resistance in basal cell carcinomas.** *Nature medicine*
Whitson, R. J., Lee, A., Urman, N. M., Mirza, A., Yao, C. Y., Brown, A. S., Li, J. R., Shankar, G., Fry, M. A., Atwood, S. X., Lee, E. Y., Hollmig, S. T., Aasi, et al
2018; 24 (3): 271–81
- **Azathioprine and risk of multiple keratinocyte cancers.** *Journal of the American Academy of Dermatology*
Cho, H. G., Kuo, K. Y., Xiao, K., Batra, P., Li, S., Tang, J. Y., Sarin, K. Y.
2018; 78 (1): 27–28.e1
- **Diagnostic Distinction of Malignant Melanoma and Benign Nevi by a Gene Expression Signature and Correlation to Clinical Outcomes** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*
Ko, J. S., Matharoo-Ball, B., Billings, S., Thomson, B. J., Tang, J. Y., Sarin, K. Y., Cai, E., Kim, J., Rock, C., Kimbrell, H. Z., Flake, D. D., Warf, M., Nelson, et al
2017; 26 (7): 1107–13
- **Genetic diseases associated with an increased risk of skin cancer development in childhood.** *Current opinion in pediatrics*

- Fogel, A. L., Sarin, K. Y., Teng, J. M.
2017
- **Association study of genetic variation in DNA repair pathway genes and risk of basal cell carcinoma.** *International journal of cancer*
Lin, Y., Chahal, H. S., Wu, W., Cho, H. G., Ransohoff, K. J., Song, F., Tang, J. Y., Sarin, K. Y., Han, J.
2017
 - **Correlates of multiple basal cell carcinoma in a retrospective cohort study: Sex, histologic subtypes, and anatomic distribution.** *Journal of the American Academy of Dermatology*
Kuo, K. Y., Batra, P., Cho, H. G., Li, S., Chahal, H. S., Rieger, K. E., Tang, J. Y., Sarin, K. Y.
2017
 - **Postzygotic Mutations in Beta-Actin are Associated with Becker's Nevus and Becker's Nevus Syndrome.** *journal of investigative dermatology*
Cai, E. D., Sun, B. K., Chiang, A., Rogers, A., Bernet, L., Cheng, B., Teng, J., Rieger, K. E., Sarin, K. Y.
2017
 - **Two-stage genome-wide association study identifies a novel susceptibility locus associated with melanoma.** *Oncotarget*
Ransohoff, K. J., Wu, W., Cho, H. G., Chahal, H. C., Lin, Y., Dai, H., Amos, C. I., Lee, J. E., Tang, J. Y., Hinds, D. A., Han, J., Wei, Q., Sarin, et al
2017
 - **Association between genetic variation within vitamin D receptor-DNA binding sites and risk of basal cell carcinoma.** *International journal of cancer*
Lin, Y., Chahal, H. S., Wu, W., Cho, H. G., Ransohoff, K. J., Dai, H., Tang, J. Y., Sarin, K. Y., Han, J.
2017
 - **Incidence ratio of basal cell carcinoma to squamous cell carcinoma equalizes with age.** *Journal of the American Academy of Dermatology*
Chahal, H. S., Rieger, K. E., Sarin, K. Y.
2017; 76 (2): 353-354
 - **Factors influencing and modifying the decision to pursue genetic testing for skin cancer risk.** *Journal of the American Academy of Dermatology*
Fogel, A. L., Jaju, P. D., Li, S., Halpern-Felsher, B., Tang, J. Y., Sarin, K. Y.
2017
 - **IFN#-Dependent Tissue-Immune Homeostasis Is Co-opted in the Tumor Microenvironment.** *Cell*
Nirschl, C. J., Suárez-Fariñas, M., Izar, B., Prakadan, S., Dannenfeller, R., Tirosh, I., Liu, Y., Zhu, Q., Devi, K. S., Carroll, S. L., Chau, D., Rezaee, M., Kim, et al
2017; 170 (1): 127-41.e15
 - **Combined inhibition of atypical PKC and histone deacetylase 1 is cooperative in basal cell carcinoma treatment.** *JCI insight*
Mirza, A. N., Fry, M. A., Urman, N. M., Atwood, S. X., Roffey, J., Ott, G. R., Chen, B., Lee, A., Brown, A. S., Aasi, S. Z., Hollmig, T., Ator, M. A., Dorsey, et al
2017; 2 (21)
 - **Genomic Stability in Syndromic Basal Cell Carcinoma.** *The Journal of investigative dermatology*
Chiang, A., Jaju, P. D., Batra, P., Rezaee, M., Epstein, E. H., Tang, J. Y., Sarin, K. Y.
2017
 - **A survey of direct-to-consumer teledermatology services available to US patients: Explosive growth, opportunities and controversy.** *Journal of telemedicine and telecare*
Fogel, A. L., Sarin, K. Y.
2017; 23 (1): 19-25
 - **Invasive Melanoma in a Patient with Congenital Ichthyosiform Erythroderma** *PEDIATRIC DERMATOLOGY*
Jaju, P., Novoa, R. A., Swetter, S. M., Sarin, K. Y.
2017; 34 (1): E35-E36
 - **Basosquamous Carcinoma: Controversy, Advances, and Future Directions.** *Dermatologic surgery*
Tan, C. Z., Rieger, K. E., Sarin, K. Y.
2017; 43 (1): 23-31
 - **Tumor-Derived Suppressor of Fused Mutations Reveal Hedgehog Pathway Interactions** *PLOS ONE*
Urman, N. M., Mirza, A., Atwood, S. X., Whitson, R. J., Sarin, K. Y., Tang, J. Y., Oro, A. E.
2016; 11 (12)

- **Invasive Melanoma in a Patient with Congenital Ichthyosiform Erythroderma.** *Pediatric dermatology*
Jaju, P., Novoa, R. A., Swetter, S. M., Sarin, K. Y.
2016
- **Direct-to-consumer teledermatology services for pediatric patients: Room for improvement.** *Journal of the American Academy of Dermatology*
Fogel, A. L., Teng, J., Sarin, K. Y.
2016; 75 (5): 887-888
- **Assessment of Accuracy of Patient-Initiated Differential Diagnosis Generation by Google Reverse Image Searching.** *JAMA dermatology*
Ransohoff, J. D., Li, S., Sarin, K. Y.
2016; 152 (10): 1164-1166
- **Identification of Alpha-Adrenergic Agonists as Potential Therapeutic Agents for Dermatomyositis through Drug-Repurposing Using Public Expression Datasets.** *journal of investigative dermatology*
Cho, H. G., Fiorentino, D., Lewis, M., Sirota, M., Sarin, K. Y.
2016; 136 (7): 1517-1520
- **Effects of Combined Treatment With Arsenic Trioxide and Itraconazole in Patients With Refractory Metastatic Basal Cell Carcinoma.** *JAMA dermatology*
Ally, M. S., Ransohoff, K., Sarin, K., Atwood, S. X., Rezaee, M., Bailey-Healy, I., Kim, J., Beachy, P. A., Chang, A. L., Oro, A., Tang, J. Y., Colevas, A. D.
2016; 152 (4): 452-456
- **An Investigator-Initiated Open-Label Trial of Sonidegib in Advanced Basal Cell Carcinoma Patients Resistant to Vismodegib** *CLINICAL CANCER RESEARCH*
Danial, C., Sarin, K. Y., Oro, A. E., Chang, A. L.
2016; 22 (6): 1325-1329
- **Familial skin cancer syndromes Increased risk of nonmelanotic skin cancers and extracutaneous tumors** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
Jaju, P. D., Ransohoff, K. J., Tang, J. Y., Sarin, K. Y.
2016; 74 (3): 437-451
- **Familial skin cancer syndromes Increased melanoma risk** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
Ransohoff, K. J., Jaju, P. D., Tang, J. Y., Carbone, M., Leachman, S., Sarin, K. Y.
2016; 74 (3): 423-434
- **A survey of direct-to-consumer teledermatology services available to US patients: Explosive growth, opportunities, and controversy** *Journal of telemedicine and telecare*
Fogel, A. L., Sarin, K. Y.
2016
- **Genome-wide association study identifies novel susceptibility loci for cutaneous squamous cell carcinoma.** *Nature communications*
Chahal, H. S., Lin, Y., Ransohoff, K. J., Hinds, D. A., Wu, W., Dai, H., Qureshi, A. A., Li, W., Kraft, P., Tang, J. Y., Han, J., Sarin, K. Y.
2016; 7: 12048-?
- **Genome-wide association study identifies 14 novel risk alleles associated with basal cell carcinoma.** *Nature communications*
Chahal, H. S., Wu, W., Ransohoff, K. J., Yang, L., Hedlin, H., Desai, M., Lin, Y., Dai, H., Qureshi, A. A., Li, W., Kraft, P., Hinds, D. A., Tang, et al
2016; 7: 12510-?
- **Effects of combined treatment with arsenic trioxide and itraconazole in patients with refractory metastatic basal cell carcinoma** *JAMA Dermatology*
Sarin, K. Y., Ally, M. S., Ransohoff, K. J., Atwood, S. X., Rezaee, M.
2016: 1-5
- **Familial skin cancer syndromes: Increased melanoma risk** *Journal of The American Academy of Dermatology*
Jaju, P. D., Ransohoff, K. J., Tang, J. Y., Sarin, K. Y.
2016; 74 (3): 423-434
- **Familial skin cancer syndromes: Increased risk of nonmelanotic skin cancers and extracutaneous tumors** *Journal of The American Academy of Dermatology*
Sarin, K. Y., Tang, J. Y., Ransohoff, K. J., Jaju, P. D.
2016; 74 (3): 437-451

- **Mutations in the Kinetochores Gene KNSTRN in Basal Cell Carcinoma.** *journal of investigative dermatology*
Jaju, P. D., Nguyen, C. B., Mah, A. M., Atwood, S. X., Li, J., Zia, A., Chang, A. L., Oro, A. E., Tang, J. Y., Lee, C. S., Sarin, K. Y.
2015; 135 (12): 3197-3200
- **Squamous Change in Basal-Cell Carcinoma with Drug Resistance** *NEW ENGLAND JOURNAL OF MEDICINE*
Ransohoff, K. J., Tang, J. Y., Sarin, K. Y.
2015; 373 (11): 1079-1082
- **Squamous Change in Basal-Cell Carcinoma with Drug Resistance.** *New England journal of medicine*
Ransohoff, K. J., Tang, J. Y., Sarin, K. Y.
2015; 373 (11): 1079-1082
- **Smoothed Inhibitors in Sonic Hedgehog Subgroup Medulloblastoma.** *Journal of clinical oncology*
Ransohoff, K. J., Sarin, K. Y., Tang, J. Y.
2015; 33 (24): 2692-2694
- **Rolling the Genetic Dice: Neutral and Deleterious Smoothed Mutations in Drug-Resistant Basal Cell Carcinoma.** *journal of investigative dermatology*
Atwood, S. X., Sarin, K. Y., Li, J. R., Yao, C. Y., Urman, N. M., Chang, A. L., Tang, J. Y., Oro, A. E.
2015; 135 (8): 2138-2141
- **A subdermal source: contact dermatitis.** *American journal of medicine*
Fogel, A. L., Longmire, M., Rieger, K. E., Sarin, K. Y.
2015; 128 (6): 578-581
- **Genomic analysis of smoothed inhibitor resistance in Basal cell carcinoma.** *Cancer cell*
Sharpe, H. J., Pau, G., Dijkgraaf, G. J., Basset-Seguín, N., Modrusan, Z., Januario, T., Tsui, V., Durham, A. B., Dlugosz, A. A., Haverty, P. M., Bourgon, R., Tang, J. Y., Sarin, et al
2015; 27 (3): 327-341
- **Smoothed variants explain the majority of drug resistance in Basal cell carcinoma.** *Cancer cell*
Atwood, S. X., Sarin, K. Y., Whitson, R. J., Li, J. R., Kim, G., Rezaee, M., Ally, M. S., Kim, J., Yao, C., Chang, A. L., Oro, A. E., Tang, J. Y.
2015; 27 (3): 342-353
- **An investigator-initiated open label trial of sonidegib in advanced basal cell carcinoma patients resistant to vismodegib** *Clinical cancer research: an official journal of the American Association for Cancer Research*
Sarin, K. Y., Oro, A. E., Chang, A. L., Danial, C.
2015
- **The digital age of melanoma management: detection and diagnostics.** *Melanoma management*
Fogel, A. L., Sarin, K.
2015; 2 (4): 383-91
- **The digital age of melanoma management: detection and diagnostics** *Future Medicine*
Fogel, A. L., Sarin, K. Y.
2015; 2 (4): 383-391
- **Dermatologic applications of direct-to-consumer genomic analysis.** *Journal of the American Academy of Dermatology*
Fogel, A. L., Azizi, N., Tang, J., Sarin, K. Y.
2014; 71 (5): 993-995
- **Activating HRAS Mutation in Nevus Spilus.** *journal of investigative dermatology*
Sarin, K. Y., McNiff, J. M., Kwok, S., Kim, J., Khavari, P. A.
2014; 134 (6): 1766-1768
- **Dermatomyositis associated with capecitabine in the setting of malignancy** *JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY*
Chen, F. W., Zhou, X., Egbert, B. M., Swetter, S. M., Sarin, K. Y.
2014; 70 (2): E47-E48
- **Dermatomyositis associated with capecitabine in the setting of malignancy.** *Journal of the American Academy of Dermatology*
Chen, F. W., Zhou, X., Egbert, B. M., Swetter, S. M., Sarin, K. Y.

2014; 70 (2): e47-8

- **Activating HRAS mutation in agminated Spitz nevi arising in a nevus spilus.** *JAMA dermatology*
Sarin, K. Y., Sun, B. K., Bangs, C. D., Cherry, A., Swetter, S. M., Kim, J., Khavari, P. A.
2013; 149 (9): 1077-1081
- **Mosaic Activating RAS Mutations in Nevus Sebaceous and Nevus Sebaceous Syndrome** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Sun, B. K., Saggini, A., Sarin, K. Y., Kim, J., Benjamin, L., LeBoit, P. E., Khavari, P. A.
2013; 133 (3): 824-827
- **Molecular Profiling to Diagnose a Case of Atypical Dermatomyocytis** *Journal of Investigative Dermatology*
Sarin, K., Chung, L., Kim, J., Higgs, B., Jallal, B., Yao, Y., Fiorentino, D.
2013; 133 (12): 2796-2799
- **Treatment of Recalcitrant Eosinophilic Cellulitis With Adalimumab** *ARCHIVES OF DERMATOLOGY*
Sarin, K. Y., Fiorentino, D.
2012; 148 (9): 990-992
- **Reversible cell-cycle entry in adult kidney podocytes through regulated control of telomerase and Wnt signaling.** *Nature medicine*
Shkreli, M., Sarin, K. Y., Pech, M. F., Papeta, N., Chang, W., Brockman, S. A., Cheung, P., Lee, E., Kuhnert, F., Olson, J. L., Kuo, C. J., Gharavi, A. G., D'Agati, et al
2012; 18 (1): 111-119
- **Reversible cell-cycle entry in adult kidney podocytes through regulated control of telomerase and Wnt signaling** *NATURE MEDICINE*
Shkreli, M., Sarin, K. Y., Pech, M. F., Papeta, N., Chang, W., Brockman, S. A., Cheung, P., Lee, E., Kuhnert, F., Olson, J. L., Kuo, C. J., Gharavi, A. G., D'Agati, et al
2012; 18 (1): 111-119
- **TERT promotes epithelial proliferation through transcriptional control of a Myc- and Wnt-related developmental program** *PLOS GENETICS*
Choi, J., Southworth, L. K., Sarin, K. Y., Venteicher, A. S., Ma, W., Chang, W., Cheung, P., Jun, S., Artandi, M. K., Shah, N., Kim, S. K., Artandi, S. E.
2008; 4 (1)
- **Aging, graying and loss of melanocyte stem cells** *STEM CELL REVIEWS*
Sarin, K. Y., Artandi, S. E.
2007; 3 (3): 212-217
- **Conditional telomerase induction causes proliferation of hair follicle stem cells** *NATURE*
Sarin, K. Y., Cheung, P., Gilson, D., Lee, E., Tennen, R. I., Wang, E., Artandi, M. K., Oro, A. E., Artandi, S. E.
2005; 436 (7053): 1048-1052

PRESENTATIONS

- Protect Your Skin This Summer - Stanford University (August 27, 2014)
- Prevent Defense: Practical Preventative Applications for Primary Care Physicians - A Panel Discussion - Levi's Stadium sponsored by Stanford Health Care (September 14, 2014)