Dear Colleagues and Friends,

On behalf of the Department of Dermatology, I am pleased to convey our very best wishes for a wonderful holiday season. 2019 has been another strong year for Stanford Dermatology in all its three major mission areas of Education, Research, and Patient Care.

In education, under the leadership of Residency Program Director, Dr. Kristin Nord, our program has now grown to 26 Residents, making the Stanford Residency Program among the very largest in the country. Substantial numbers of Stanford medical students continue to choose Dermatology, reflecting the outstanding work of dedicated faculty mentors and advisors in the Department. Record numbers of Ph.D. students, postdoctoral scientists, and clinical fellows continue to train in the Department. The success of these large cohorts of extraordinarily dedicated and talented young colleagues are helping reach our Department's goal to have a positive long-term impact on our field by training the next generation of leaders.

Paul Khavari, MD, PhD
Carl J. Herzog Professor and Chair

Cont’d. on page 2
In research, the Department has continued to lead the field. Our translational programs received a significant boost by moving into brand new facilities at Discovery Hall this past spring, facilitating their continued expansion. Faculty research productivity across the spectrum from basic science to clinical trials has continued to lead our field, with numerous faculty awards as well as leadership in funding from the National Institutes of Health reflecting this. Multiple clinical trials based on scientific discoveries made in the Department continue to show positive impacts in transforming the care of a broad spectrum of skin disorders.

Patient care efforts have included successful expansion of multiple subspecialty programs designed to serve patients with an array of challenging skin disorders throughout the Bay Area and globally. Dr. Sumaira Aasi, in her role as Director of Dermatologic Surgery, continues to lead the most highly awarded outpatient program throughout Stanford Healthcare. Dr. Kerri Rieger, our Director of Dermatopathology, and Dr. Roberto Novoa have continued to enhance Dermatopathology services. Dr. Susan Swetter, Director of Stanford’s Cutaneous Oncology efforts, has continued to lead cancer services, including Stanford’s efforts in Melanoma. Dr. Youn Kim, Director of Cutaneous Lymphoma efforts at Stanford, also continues to lead an innovative therapeutic and research program that touches patients around the world. Dr. Joyce Teng’s leadership of Stanford Pediatric Dermatology has continued to bring leading care and research in our field to the youngest of our patients. Finally, under the leadership of Dr. Justin Ko, further efforts are also underway to innovate new models of care and to make Stanford Dermatology accessible to our community throughout the Bay Area.

Outstanding new faculty have joined the Department, including Dr. Amrita Arora, whose interests include TeleHealth, Dr. Eleni Linos, whose interests include epidemiology, and Dr. Chen Wang, whose clinical interests include autoimmune skin disease while he is pursuing research in the laboratory of Dr. Mark Davis here. Additionally, we were so pleased to welcome back Dr. Justin Gordon and Dr. Gillian Heinecke to the Department.

In additional positive developments, the Tenth Annual Faculty Retreat in the Department’s new Task Force format was held on September 20, 2019. Faculty came together to work on issues critical to the Department’s continued success, with an emphasis on enhancing our Education, Research, and Patient Care missions. The Retreat was the culmination of months of advance work by Task Forces led by Dr. Laurel Stevens, Silvina Pugliese, Peter Marinkovich and Joyce Teng. These Task Forces helped chart the path forward for this year’s plans for Department growth and improvement, with several additional initiatives now either underway or already completed. Plans are already in place for next year’s Retreat in September 2020.

Looking into the future, the mission of the Department will remain focused on leadership in discovery, in patient care, and in training leaders of our specialty in an environment that fosters creativity, and synergy. We are already looking forward to our Department Reunion at this year’s American Academy of Dermatology Meeting in Washington, D.C., in March of 2020. More details will be sent soon, but please mark your calendars and join us for a chance to renew ties with alumni and current faculty and residents at the AAD.

The support of our entire community of faculty, alumni, patients, and friends is instrumental in providing the creativity and resources needed in this effort to support trainees, young faculty, patient care advances, and innovative research. I welcome your support and suggestions to enhance these endeavors and thank you for your efforts as part of the Stanford Dermatology community.

With best wishes for a happy holiday season and New Year,

Paul Khavari, MD, PhD
Carl J. Herzog Professor and Chairperson

Discovery Hall Now Open!

Stanford Dermatology has expanded its translational research to Discovery Hall in Redwood City.
Unparalleled Clinical Care

To Patients

Around the world
Advancing Research in Dermatology through Legacy Giving

Thank you to Jeffrey and Maddie Carmel for their generosity in setting up a legacy gift to support advanced research in Dermatology. Dr. Jeffrey Carmel has been a part of Stanford Dermatology for over 50 years in various roles, including Acting Instructor, Clinical Teaching Assistant, and Clinical Associate Professor among others. For the last 30 years, he has served as Adjunct Clinical Professor and devoted a tremendous amount of his time as a volunteer attending clinic and teaching medical students.

We arrived at Stanford in 1968, fresh from the Internal Medicine program at the University of Rochester, and were warmly greeted by Dr. Eugene Farber, the first Dermatology Department Chair. We quickly became part of the Derm Family and came to appreciate the vision, the passion and the commitment that Dr. Farber brought to the program he founded, particularly to his residents. That passion continues today under the unique leadership of Dr. Paul Khavari.

Looking back over five decades on the Clinical Faculty, the changes in patient care due to progress in research is astounding. During my residency, patients with severe psoriasis were hospitalized for weeks with tar baths, anthralin treatments, UVB therapy, topical steroids, and occasionally the new drug, Methotrexate. That was the best we could offer, and it wasn’t great. For blistering disorders all we had was wound care and compassion.

Today modern therapies give these patients and a myriad of other dermatology patients a new lease on life with drugs we could not have even dreamed of in those days. There was no laser therapy, Mohs Surgery and immunotherapy were in their infancy, and systemic drugs were non-specific and came with many potential serious side effects. Even the surgical skills we learned as residents were primitive compared to what residents learn today. Stem cell research? Not even yet a dream.

By making a legacy gift, we hope to ensure that the Department will always have the resources it needs to meet whatever challenges lie ahead, in research, in resident training, in attracting the best faculty.

An old man was once asked why he was planting a small sapling of a tree that could not possibly bear fruit during his lifetime. With a smile he pointed to the mature trees around him that were planted by his forebears. A legacy gift is our way of giving back to the Department that gave us so much and will continue to make life better for those who follow us.

Jeff and Maddie Carmel
The Department of Dermatology is committed to the highest level of patient care, as well as the discovery and development of better treatments for dermatologic diseases.
Notable Awards and Advances in Science

Zakia Rahman, MD  
Clinical Professor  
Elected to the Executive Committee of the Stanford Medical School Faculty Senate  
Elected to Co-Chair the American Society for Laser Surgery in Medicine 2022 Annual Meeting

Kavita Sarin, MD, PhD  
Assistant Professor  
Awarded the Damon Runyon Clinical Investigator Award

Susan Swetter, MD  
Professor  
Elected to Chair the 2019 AAD Melanoma Clinical Practice Guidelines Work Group

Kevin Wang, MD, PhD  
Assistant Professor  
Awarded New York Stem Cell Foundation Innovator Award  
Stanford mCHRI Faculty Scholar Award in Pediatric Translational Medicine

Eleni Linos, MD, MPH, DrPH  
Professor  
A study conducted by Dr. Linos made national headlines on the role of tanning salons on LGBT communities and skin cancer. Dr. Linos is the senior author of the study, which was published online October 4, 2019 in JAMA Open Network. The lead author is graduate student Rebecca Chen. (SOURCE: bit.ly/2P6y135 JAMA Network Open)
Notable Awards and Advances in Science

Kavita Sarin, MD, PhD
Assistant Professor

Howard Chang, MD, PhD
Professor

Anne Chang, MD
Associate Professor


Howard Chang, MD, PhD
Professor

Anne Chang, MD
Associate Professor


Joyce Teng, MD, PhD
Clinical Professor, Dermatology and Pediatrics
Patent Awarded for Targeted treatment of painful keratoderma in Epidermolysis Bullosa Simplex

Howard Chang, MD, PhD
Professor
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<th>Dr. Paul Khavari</th>
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<td>Dr. Amrita Arora</td>
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<td>Dr. Joanna Badger</td>
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New Faculty Members

Amrita Arora, M.D. - Clinical Assistant Professor (Affiliated)
Dr. Arora is Clinical Assistant Professor (Affiliated) of Dermatology. She received her medical degree from the University of Chicago School of Medicine and completed residency at Mayo Clinic. Learn more about Dr. Arora at https://profiles.stanford.edu/229916.

Justin Stanley Gordon, MD - Clinical Assistant Professor, Dermatology
Dr. Justin Gordon is a Clinical Assistant Professor of Dermatology. He received his medical degree from Emory University School of Medicine. Following medical school, Dr. Gordon completed an internal medicine internship at Mount Sinai School of Medicine in New York City, followed by his dermatology residency at Stanford University. Learn more about Dr. Gordon at https://profiles.stanford.edu/justin-gordon.

Eleni Linos, MD, MPH, DrPH - Professor of Dermatology and, by courtesy, of Health Research And Policy (Epidemiology)
Eleni Linos MD, MPH, DrPH, is Professor of Dermatology at Stanford University. She received her medical degree from Cambridge and Oxford universities in the UK, then trained in epidemiology at the Harvard School of Public Health and completed her dermatology residency at Stanford. Learn more about Dr. Linos at https://profiles.stanford.edu/eleni-linos.

Chen Wang, M.D., Ph.D. - Clinical Instructor
Dr. Wang is Clinical Instructor of Dermatology and Postdoctoral Medical Fellow at the Stanford Institute for Immunity, Transplantation and Infection. Dr. Wang completed medical school and postgraduate doctoral degree at Yale School of Medicine, and residency at Stanford. Learn more about Dr. Wang at https://profiles.stanford.edu/155885.

Gillian Heinecke, M.D. - Clinical Assistant Professor
Dr. Heinecke is Clinical Assistant Professor of Dermatology. She received her medical degree at the Icahn School of Medicine at Mount Sinai, and residency at Stanford. Learn more about Dr. Heinecke at med.stanford.edu/profiles/gillian-heinecke.
This year, we welcomed our largest class to date with 10 first year residents. As our program has added one additional resident at the Santa Clara Valley Hospital site, we are now one of the largest clinical training programs in the country, and are fortunate to have 26 exceptionally bright and hard-working resident colleagues in the Stanford Dermatology family, who are being mentored by our faculty in the clinics, as well as in scholarly projects. However, despite the growth of our resident contingency, we are also proud that our faculty continues to grow (and remain strong), as exemplified by the faculty win at the 2019 Annual Departmental Field day (Faculty 11 to Residents 10)!

Our residents continue to rotate through 4 hospital systems: Stanford Hospital and Clinics (including the Stanford Cancer Center and Inpatient Consult Service), Lucille Packard Children’s Hospital, the Palo Alto VA Healthcare System and the Santa Clara Valley Medical Center. The clinical training includes a broad exposure to different patient populations, payer systems, as well as twenty specialty clinics distributed across the teaching sites, with new opportunities in wound care and LGBTQ being added this year. Our residents have also been enjoying the opportunity to participate in a telehealth program with the Dhulikhel Hospital in Kathmandu, Nepal, and several new elective opportunities supported by the Center for Innovation in Global Health, including our first rotator at the Deenanath Mangeshkar Hospital in India.

Under the tremendous leadership of our three chief residents, Dr. Gordon Bae, Dr. Hayley Leatham and Dr. Alex Zhu, as well as our Curriculum Director, Dr. Betsy Bailey, we have added several new curricular opportunities for our residents this year. These include a dermoscopy bootcamp through partnership with MD Anderson, and a series of didactics focused on patient-centered communication and giving feedback, which included opportunities for role playing and peer to peer feedback.

In addition to their clinical training, our residents have numerous opportunities to engage in research, innovation and community outreach. Starting this winter, Dr. Roxana Daneshjou will be working in the Stanford Laboratory for Machine Learning, Genomics and Health with Dr. James Zou as part of our 2+1 research track. Last year, Dr. Olga Afanasiev was accepted as one of the Advancing Innovation in Dermatology scholars fortunate to participate in the Virtual Magic Wand Program, and also helped to co-host, along with several of our dermatology faculty and residents, the HealthAI Hackathon at Stanford last winter. For those interested in clinical research and/or medical education we have wonderful opportunities to participate in mentored projects as part of our Clinical Scholars Track (CST), led by Dr. Jean Tang. In addition, all of our residents are given the unique opportunity to rotate through a dermatology-specific pharmaceutical company on our industry elective, providing insight into the drug development and approval process.

Finally, our residents engage with the greater community, volunteering at the Pacific and Arbor free clinics, as well as with the Stanford NCAA athletes and local elementary schools to promote sun safe behaviors among students of all ages.

In summary, we are looking forward to another great year, and are very appreciative of the generous support provided by our Stanford Dermatology family which allows us to continue to provide new and exciting opportunities for the next generation of Stanford
The Cutaneous Oncology Program at the Stanford Cancer Institute, led by Professor of Dermatology and Director of the Pigmented Lesion and Melanoma Program Dr. Susan Swetter, promotes research and state-of-the-art treatment for all skin cancer types, including melanoma and atypical melanocytic neoplasms (both adult and pediatric), high-risk and solid organ transplant-associated squamous cell carcinoma, advanced basal cell carcinoma, Merkel cell carcinoma and other solid-tumor cutaneous malignancies. Cutaneous Oncology skin cancer and Supportive Dermato-Oncology clinics are held in the Stanford Cancer Center in Palo Alto (CCPA), located at 900 Blake Wilbur Drive, 3rd floor (BW-3) and the Cancer Center South Bay (CCSB) in San Jose. We look forward to future expansion of the Cutaneous Oncology Program in the East Bay.

Growth of Cutaneous Oncology Program at Cancer Center South Bay

Under the direction of Dr. Lisa Zaba, Clinical Associate Professor of Dermatology, the Cutaneous Oncology Program is in full swing at the Cancer Center South Bay location, offering comprehensive care on a daily basis. Dr. Zaba works with Dr. Kim Stone (Clinical Assistant Professor of Surgery/Surgical Oncology), Dr. Fred Baik (Assistant Professor, OHNS/Head and Neck Surgery), and CCSB medical and radiation oncologists to provide comprehensive cutaneous, surgical, and medical oncology care for patient with newly-diagnosed melanoma, advanced basal cell carcinoma, high risk cutaneous squamous cell carcinoma, and Merkel cell carcinoma – in conjunction with colleagues at the Cancer Center Palo Alto. The expanded services at CCSB provide ease of access for patients living in the San Jose, Santa Cruz, Monterey, Salinas, and San Luis Obispo regions. New patient coordinators for referrals to both CCSB and CCPA can be reached 650-498-6000.

Ongoing Program Development

Our daily Supportive Dermato-Oncology (SDO) clinics take place at BW-3 and CCSB. This unique service was developed by Stanford Clinical Associate Professor Dr. Bernice Kwong in 2012 to provide urgent, on-site dermatology evaluation of cutaneous complications related to cancer diagnosis and treatment, allowing for improved patient quality of life and outcomes. The SDO clinics are run by Dr. Kwong, Clinical Assistant Professor of Dermatology, Dr. Silvina Pugliese, and Dr. Zaba. In 2019, Dr. Kwong and Dr. Pugliese initiated a new Dermatology-Oncology Consult Service (DOCS) to provide dedicated SDO services to cancer inpatients at Stanford Hospital. Dr. Zaba focuses on the intersection between cancer and immunity as it pertains to cancer surveillance and immunotherapy. She recently received an investigator-initiated grant to study immune mechanisms that cause immunotherapy-induced dermatitis.

Clinical and Translational Research Highlights

Under the direction of Dr. Sunil Reddy, Clinical Assistant Professor of Medicine/Oncology, Stanford has a robust clinical trials portfolio in place for solid tumor cutaneous malignancies, with over 13 trials open at present across the disease spectrum (see: cancer.stanford.edu/trials). Dr. Chang was instrumental in conducting research that led to the recent approval of the first anti-PD1 agent Libtayo (cemiplimab-rwlc) for patients with metastatic cutaneous SCC (cSCC) or locally advanced cSCC who are not candidates for curative surgery or radiation, with forthcoming publication in Lancet Oncology.
Future clinical trials will focus on how to improve the effects of immunotherapy in these cancers and to prevent recurrence. Additional clinical treatment and research highlights are noted below.

• **Unraveling the role of genetics in skin cancer**

By studying the DNA from individuals who develop skin cancer, Dr. Kavita Sarin, Assistant Professor of Dermatology, is identifying genetic mutations that contribute to increased skin cancer susceptibility. She has conducted some of the largest genome-wide association studies to date, identifying over 20 novel genetic variants that contribute to basal cell cancer, squamous cell cancer, and melanoma [Nature Communications]. In addition, a study conducted by Drs. Sarin, Chang, Sumaira Aasi, and Jean Tang found that 19% of individuals with frequent basal cell cancer harbor underlying DNA repair defects and are at increased risk of internal organ malignancy [JCI Insight].

In partnership with the SF Bay Area Melanoma Registry, Drs. Sarin, Swetter, and Justin Ko are currently recruiting a large cohort of patients with multiple primary melanomas to understand the genetics that contribute to melanoma. This study is partially funded by a Stanford Cancer Innovation Grant. Studies like these will help us identify “at-risk” individuals and enable early screening and intervention for skin cancer prevention.

• **Novel imaging technologies for total body mole mapping and assessment of other dermatologic conditions**

We are pleased to announce plans for state-of-art total body imaging (for nevus surveillance and other dermatologic conditions) with the Canfield Intellistudio DermaGraphix body mapping system. This platform will be available at both Stanford Dermatology in Redwood City and the Cancer Center Palo Alto (BW-3). We will notify the dermatology community when this service becomes available.

• **Innovative bedside technologies to improve Mohs micrographic surgery cancer detection and treatment**

Dr. Sumaria Aasi, Clinical Professor of Dermatology, is working with Dr. Albert Chioiu, Clinical Assistant Professor of Dermatology, and Stanford Department of Chemistry scientists to explore ways to reduce the time needed for tissue-sparing Mohs micrographic surgery. In a recent study, they were able to use desorption electrospray ionization mass spectrometry imaging (DESI-MSI), to successfully and quickly distinguish cancerous tissue from normal surrounding skin, a critical factor in skin cancer diagnosis and treatment.

DESI-MSI offers the potential, by literally mapping out, pixel by pixel, the presence and quantities of numerous biomolecules, to rapidly differentiate skin cancer from non-cancerous skin. Our hope is that this new method can be used intraoperatively without the need of removing tissue for examination, considerably speeding up the surgical procedure. A research paper of their work, in collaboration with renowned Professor Richard Zare, PhD of the Department of Chemistry, was recently published in the Proceedings of the National Academy of Sciences.

• **Wipe OUT Melanoma - California: Targeting High Risk Populations through Community Engagement**

Dr. Swetter, Dr. Eleni Linos, Professor of Dermatology, and colleagues in the Stanford Center for Population Health Sciences are leading a statewide community outreach initiative to improve prevention and early detection strategies in high risk individuals. The Wipe Out Melanoma - California (WOM-CA) collaborates with Oregon Health & Science University’s War on Melanoma™ public health program to reduce melanoma incidence through community-based education, activism, and research. The California-based registry (Melanoma Community Registry of California) will involve academic centers throughout the state to serve the population in both a clinical and supportive capacity. Look for the formal roll out of the WOM-CA website and MCRC registry soon.
The Marvin A. Karasek Lectureship in Dermatology at Stanford was established in 2018 by a generous gift from Stanford Dermatology Faculty Member, Professor Marvin A. Karasek, with a goal to advancing progress in cutaneous biology and medicine.

Join us on May 18, 2020 in Cardinal Hall in Redwood City from 5 - 7 p.m.

2020 Lecturer - Jean Tang, MD, PhD

Jean Tang, M.D., Ph.D., is a Professor of Dermatology and her research focuses on genetic skin diseases such as Basal Cell Nevus Syndrome and Epidermolysis Bullosa. She studies new ways to treat and prevent NSMC and melanoma. Dr. Tang has led or co-led the conduct and completion of 6 investigator initiated clinical trials in BCC and EB. She received her MD/PhD from Stanford (Biophysics), completed her dermatology residency at Stanford, and then went to UCSF for a 3 year post-doc in mouse genetics, while simultaneously pursuing formal coursework in biostatistics, epidemiology, and clinical trial design in the KL2 CTSI program.

Please stay tuned for RSVP link & details.
Stanford AAD Reunion

Invitation from Paul Khavari, MD, PhD

Join us!

Crystal Ballroom B
Embassy Suites Denver Downtown Convention Center
Time: 6:00 - 8:00 p.m. MDT

Please stay tuned for RSVP link & details.
Make a Difference

Your gift can help advance scientific investigations into dermatologic diseases. It can also help prepare future leaders in dermatology through support of our dermatology trainees. Gifts to the Department of Dermatology can be set up to support research in a variety of ways. Your gift can be established to support immediate research needs or to provide long-term support through the establishment of an endowment.

For More Information or to Discuss your Options, Please Contact Development:

Katharyn Israel, Senior Associate Director of Major Gifts
Medical Center Development
Phone: 541.961.7826
Email: katharynisrael@stanford.edu

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