

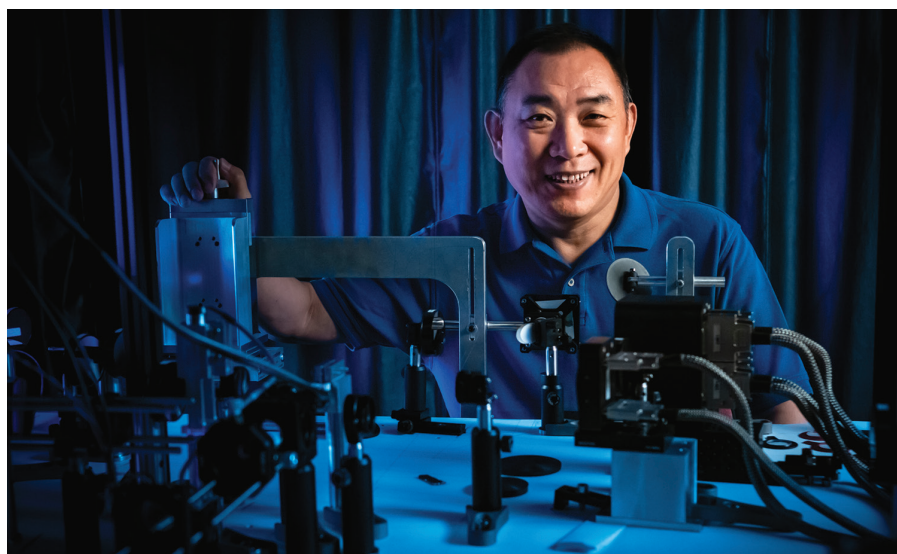
InSight



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Yuhua Zhang, Ph.D., with the Adaptive Optics Retina Imaging Station in Doheny's Laser Lab

From Outer Space to Inner Vision

Yuhua Zhang Designs Novel Retinal Imaging Tools

Originally, Doheny Eye Institute's Yuhua Zhang, Ph.D., had his eyes on the stars. His studies in precision instrument and optical engineering were driven by his interest in designing astronomical telescopes to explore interstellar space.

Then, 27 years ago, his mission changed when his mother-in-law developed an eye disease with severe retinal bleeding. At the time there was no technique by which the signs of this devastating occurrence could be detected, imaged, and shared between medical professionals. On every doctor visit his mother-in-law made in search of a diagnosis and treatment, she was told it was too late to restore her vision. Dr. Zhang, at the time a postdoctoral fellow in adaptive optics, realized that something he had learned to search the cosmos could be refocused to study the retina. With this insight, he endeavored into a new field of ophthalmological engineering and research that integrated adaptive optics, scanning laser ophthalmoscopy, and optical coherence tomography.

Today, Dr. Zhang is one of a small number of scientists designing the most advanced, novel adaptive optical retina imaging tools in the world. To accomplish

“Looking at retinal cells is like observing stars in a dark sky.”

this design, he imaginatively turned around the imaging process involved in looking into deep space through the disturbances in earth's atmosphere to instead look through the disturbances that occur when imaging the retina through the cornea, the lens, the aqueous, and vitreous fluid. The power of adaptive optics helps to overcome the inherent image blurs and distortions that can appear when looking through these media, along with rapid retinal movements.

“Looking at retinal cells is like observing stars in a dark sky,” says Dr. Zhang. His investigations explore the retina at the cellular and sub-cellular level, so it is possible to see the approximately 126 million photo receptors, identifying both cones for daylight and color vision, and rods for nighttime vision. Additionally, it is possible to observe the ganglion cells that connect the retina to the optical nerve, as well as the flow of blood through the vessels in the eye.

Dr. Zhang's adaptive optics engineering is still a developing field. His observations can amplify all areas of vision research. With the strides made to date, it's exciting to imagine what Dr. Zhang's team will discover next as it continues to explore the universe of the eye.



From Left: Jewel Hu, Ph.D. and Srinivas Satta, M.D.

Artificial Intelligence to Power Research

Satta and Hu Lead Doheny AI Team

As a leader in vision science research, Doheny Eye Institute has been at the forefront of developing cutting-edge artificial intelligence (AI) for well over a decade, guided by Srinivas Satta, M.D., Director, Artificial Intelligence & Imaging Research, and an internationally recognized clinician-scientist, and Jewel Zhihong Hu, Ph.D., a two-decade pioneer in AI and expert panelist for the latest National Eye Institute data science strategic plan, who leads the Doheny Eye Image Analysis Laboratory (DIAL) for advanced AI algorithm development.

Doheny is pioneering the use of AI as a tool to accelerate the detection and earlier diagnoses of age-related macular degeneration, glaucoma, and diabetic retinopathy. The need for AI is driven by several factors, including increasingly data-intensive retina imaging, combined with accelerating incidences of eye diseases that are best treated early. These two factors could rapidly outstrip the human capabilities of clinicians to examine patients and image readers to make diagnoses.

The current growth in cases of diabetic retinopathy demonstrates the need for AI. "Diabetic patients already outnumber practicing ophthalmologists in the U.S. and this gap will only grow," says Dr. Satta. "Accurate, real-time diagnosis holds great promise for the millions of diabetic patients. A prompt diagnosis made with AI will identify those at risk of blindness and get them to treatment before it is too late."

Because AI algorithms need images to learn from, Doheny's extensive library of diagnosed retinal images offers an immediate advantage. Dr. Satta has expanded this asset by bringing together a consortium of similar libraries. Dr. Hu's team uses these images and their human gradings, referred to as "seen data," to train AI algorithms to screen for different diseases and recognize their visual patterns. The trained AI is introduced to undiagnosed images, referred to as "unseen data," for diagnosis decisions.

Dr. Hu's team has also been engaged in developing innovative AI to reverse engineer the developmental steps in vision diseases, thereby inferring biomarkers objectively with AI instead of based on human observation to further strengthen earlier diagnosis and treatment. Across the spectrum of vision diseases that Doheny researches, the positive impact of AI technology will be significant.

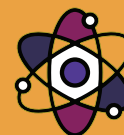
What is Artificial Intelligence?



Artificial Intelligence (AI) is a branch of computer science powered by robust data.

AI refers to the simulation of human intelligence in machines that enables them to think and learn like humans. Essentially, applied AI is directed toward assisting with or solving real world problems.

AI gets popular attention nowadays mainly due to the breakthrough of innovative deep learning algorithms. The fastest computers, which can perform as many calculations in one second as a human being could in 31,688,765,000 years, facilitate the fulfillment of deep learning.



Harnessing this unimaginable computing horsepower, innovative AI can accomplish incredible volumes of intensive analysis in areas of scientific inquiry, for example, the review and diagnosis of data-intensive retinal imagery.

DEAR FRIENDS

“I invite you to join us and weave your thread of support into this tapestry of world-class vision research, which continues to conserve, improve, and restore human eyesight.”



As I reflect on Doheny’s first 75 years, I am impressed by the power of continuous change and advancement, change that looks forward, and has always been guided by Mrs. Carrie Estelle Doheny’s mission to further the conservation, improvement, and restoration of human eyesight. Her goal encouraged every generation forward and brought us to the exciting campus and opportunities we now enjoy. Today, Doheny is an internationally known, top-ranked vision program with a stellar reputation.

How did we get here? Fulfilling Mrs. Doheny’s vision has been like weaving a fine tapestry that both delights and heals the eye. It has required many different threads and colors. Our tapestry of success comes from weaving together the threads of inspired leadership, deep generosity, pioneering research, and dedicated commitment.

Certainly, we would not be here without the strong threads of support from our donors, especially the Carrie Estelle Doheny Foundation, which, following its namesake’s mission, provided funding to build our first home in 1966 and has since continued to partner with us to support our mission-related programs.

We also needed the bold, devoted leaders who have woven their vision, drive, and values into our team over the years – because a building and funding alone do not make a great organization. This leadership has included our board of directors, our chief executives, notably Stephen J. Ryan, M.D., who instilled so much of the culture of excellence that continues to guide our successful course, and our insightful management teams and staff. Still, funding, a building, a board, and managers do not complete the magnificent Doheny tapestry.

At the core of this picture are our brilliant researchers, clinician-scientists, and their teams, who devote their time to delivering our mission. Without their dedicated efforts, Doheny’s reputation as a leader in vision research and ophthalmology would not have been possible to achieve. They continue to advance their cutting-edge research and weave the ever-expanding Doheny Eye Institute tapestry of exceptional science.

Currently, we are engaged in a strategic planning process that has enlisted key stakeholders, including board members, faculty, and management, to identify priorities, needs, and goals. These include increased collaboration and stronger alignment with our affiliation partner, UCLA Stein Eye Institute, as well as increased collaborations with other scientific, education, and academic organizations to accelerate the rate of vision science discovery.

We are also excited to announce that on September 11, construction of the Doheny Eye Center UCLA clinic began on the first floor. With completion estimated in 16 months, we look forward to welcoming our Doheny-UCLA clinical faculty and staff to their new home in our building very soon! It is deeply satisfying to see one of our long awaited dreams about to unfold – having our researchers and clinicians under one roof to foster innovative ideas that strengthen the impact of our work for the betterment of humanity.

Finally, in reflecting on my 31 years at Doheny, I am proud and grateful to lead this outstanding organization. I invite you to join us and weave your thread of support into this tapestry of world-class vision research, which continues to conserve, improve, and restore human eyesight.

A handwritten signature in black ink, appearing to read 'Marissa Goldberg', written in a cursive style.

Marissa Goldberg
Chief Executive Officer

Eye Care Checklist



- Be aware of your family's vision health, is there a history of glaucoma or age-related macular degeneration? If so, you are at increased risk.
- Exercise regularly, it's good for your heart and it's good for your eyes.
- Reduce sugar consumption. Avoiding diabetes through a healthy diet, reduces risk factors.



- Eat a diet high in anti-oxidants, for example leafy greens and blueberries.
- Avoid smoking, reduce or limit alcohol consumption.
- When outdoors, wear sunglasses to protect your eyes from exposure to UV light
- Specifically developed dietary supplements, like Ocvite, may be helpful in supporting vision health.
- Over age 65? A complete eye examination every 1 to 2 years is recommended.

Smart Choices for Healthy Vision

Eye Care Awareness for Everyone

Today, we are all encouraged to make **smart choices to improve our health**. Modern medical practice encourages everyone to work in partnership with their healthcare providers and to be proactive about prevention, as well as to seek early treatment. Vision care is no different.

Victoria Tseng, M.D., Ph.D., a Doheny-UCLA ophthalmologist specializing in the treatment of glaucoma and cataracts, as well as Program Director for the UCLA Ophthalmology Residency Program, offers guidance on what everyone should pay attention to when it comes to vision care.



Victoria Tseng, M.D., Ph.D.

There are four common eye diseases that everyone should be aware of: cataracts, diabetic retinopathy, glaucoma, and age-related macular degeneration (AMD).

Cataracts are a common condition. Dr. Tseng explains, "Eventually, everyone gets cataracts; it is part of the eye's aging process." One of the key factors that can accelerate the condition is exposure to UV light. Just as one should put on a high-quality sunblock when going outside to protect the skin, another important preventative practice is to wear good sunglasses to protect the eyes.

Diabetic Retinopathy results from often uncontrolled diabetes and can be blinding. High blood sugar levels cause damage to the blood vessels in the retina, which can result in retinal bleeding or leakage. Dr. Tseng recommends that those diagnosed with Type I diabetes should be screened within five years, while those diagnosed with Type II diabetes should be screened as soon as possible. The disease can go through two phases, non-proliferative and proliferative, and swelling in the retina can occur at any phase. Bottom line: Eat healthy and exercise regularly to reduce the risk of diabetes, which will also reduce the risk of related diabetic eye disease.

Glaucoma is typically an eye disease observed in adults and is defined by the deterioration of the optic nerve. There are predictors for this disease. "If another family member has been diagnosed with glaucoma, you should consider yourself at increased risk," says Dr. Tseng. The disease tends to be more common in those who are nearsighted and can also show up in those who have diabetes. Additionally, the use of steroids can exacerbate the condition. Many are unaware of the over-the-counter medications containing steroids, like hydrocortisone and Flonase. Anyone with a risk factor for glaucoma should get an annual checkup.

Age-Related Macular Degeneration (AMD) typically develops later in life. According to the American Academy of Ophthalmology (AAO), AMD is very common and the leading cause of vision loss in people aged 50 or older. A loss of fine details, regardless of distance, and a loss of central vision are often early indicators of the disease. Factors that contribute to the progression of this disease include poor diet and lifestyle, family history, and smoking.

For those over age 65, the AAO recommends a complete eye examination every one to two years. Regular exercise, reduced sugar consumption, and a diet high in antioxidants are also beneficial. Dr. Tseng offers this advice: "If you are doing what is good for your heart, lungs, brain, and to reduce cancer risk, you are also promoting vision health."

“We thank Anne Ryan for her generous support of Doheny’s work. Her gift supporting Dr. Kaustabh Ghosh’s novel research into treatments for age-related macular degeneration carries forward Dr. Stephen J. Ryan’s legacy and pioneering spirit.”

– Marissa Goldberg, CEO



Anne Ryan and Dr. Stephen J. Ryan

Anne Ryan Makes Gift

Will Support Interdisciplinary AMD Research

Anne Ryan, widow of long-time, pioneering president of Doheny Eye Institute, Stephen J. Ryan, M.D., has once more made a gift in his honor. This fitting tribute will support the age-related macular degeneration (AMD) research of Kaustabh Ghosh, Ph.D.

A quintessential academician, Dr. Ryan was described as an outstanding leader, superb clinician, dedicated teacher, gifted researcher who not only led and shaped the institute’s research initiatives, but also set the course that established its worldwide reputation. Dr. Ryan firmly believed in the power of collaborative medicine and interdisciplinary research. Today, this practice continues with the search for new and more effective treatments for many ocular diseases, including AMD. Ryan’s early recognition sprang from his role as editor of *Retina*, considered by most ophthalmologists to be the leading text on the subject.

Gift recipient Kaustabh Ghosh, Ph.D., is an interdisciplinary researcher with expertise in the fields of vascular inflammation, mechanobiology, bioengineering, and nanomedicine. These combined disciplines facilitate a better understanding and

treatment of diabetic retinopathy and AMD, the leading causes of vision loss in the global diabetic and aging population. As a vascular mechanobiologist, Dr. Ghosh is investigating how the stiffening of blood vessels of the choroid, the outer retina blood supply, can affect the transport of nutrients and oxygen. His research asks whether such conditions are causative or symptomatic, and focuses on methods to detect vessel stiffening to facilitate earlier diagnosis. Deborah Ferrington, Ph.D., Chief Scientific Officer, says, “This gift extends Dr. Ryan’s legacy and Dr. Ghosh is the appropriate recipient because Ryan embraced interdisciplinary and collaborative science.”



Ryan Gift Recipient
Kaustabh Ghosh, Ph.D.

ACADEMIC LEADERSHIP

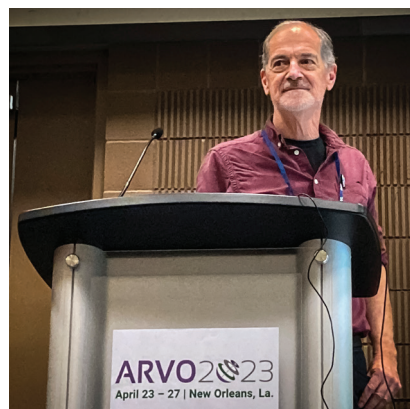
A Meeting of the Minds

ARVO and AAO Convene Top Minds to Share Research

Doheny was well represented by its Doheny-UCLA researchers and clinician-scientists at the 2023 Association for Vision Research and Ophthalmology (ARVO) annual meeting held April 23–27 at the New Orleans Ernest N. Morial Convention Center.

Yuhua Zhang, Ph.D., Steven Barnes, Ph.D., Ram Kannan, Ph.D., Srinivas Sadda, M.D., Michael Ip, M.D., and Deborah Ferrington, Ph.D., delivered oral presentations at symposia on their research. Some of the topics they covered included data on retinal cell death during age-related macular degeneration (AMD), molecular causes of vascular stiffening in the retina, the use of mitochondrial peptides to block retinal injury in AMD, the results of long-term clinical trials testing treatments for “wet” AMD, and measuring precise blood flow in patient retinas.

During the four-day conference, over 1,000 research posters were displayed, with Doheny researchers presenting 26 research posters. This type of presentation occurs in conference hall spaces, where attendees circulate and review posters containing abstracts, diagrams, data, observations, questions, and charts of current scientific studies from different research teams. Researchers stand by their posters at specific times to provide the opportunity for peer-to-peer



Above clockwise: Daniel Katz, Administrative Director, Doheny Image Reading Center (DIRC) and Ken Marion, Assistant Director, Doheny Image Reading and Research Lab (DIRRL); Steven Barnes, Ph.D.; Ram Kannan, Ph.D., with David Hutton, Executive Editor, *Ophthalmology Times*

dialogue and for participants to ask questions about their research or offer observations. This exchange of ideas promotes scientific growth and fosters new collaborations between research groups. This concept is summarized

ARVO is the largest and most respected eye and vision research organization in the world. Participants include nearly 10,000 members from over 75 countries. Some 45% of members reside outside the U.S. with

“Conferences such as ARVO also offer the time for networking, which is especially important for early career clinicians and scientists. Dr. Ferrington listens to many conference presenters as a way to evaluate and recruit the best and brightest post-docs and future faculty.”

by Deborah Ferrington, Ph.D., Doheny’s Chief Scientific Officer, “Science is collaborative so conferences are an important way to bring researchers together.” She added that the dialogue that develops through the sharing and comparing of scientific observations, results, and data at symposia and poster presentations is at the heart of the advancement of knowledge.

Conferences such as ARVO also offer the time for networking, which is especially important for early career clinicians and scientists. Dr. Ferrington listens to many conference presenters as a way to evaluate and recruit the best and brightest post-docs and future faculty.

the membership being multidisciplinary and consisting of both clinical and basic science researchers.

Another important meeting that convenes this month in San Francisco is the American Academy of Ophthalmology (AAO) Annual Meeting. At this meeting, three of our Doheny-UCLA faculty will be honored: Brian Francis, M.D., M.S. with the Life Achievement Honor Award, and Victoria Tseng, M.D., Ph.D., and Irena Tsui, M.D., will each receive an Achievement Award. The AAO awards a select few individuals to recognize their contributions to the Academy, its scientific and educational programs, and to ophthalmology.



Dr. Sada, ARVO President-Elect

SriniVas R. Sada, M.D., was named president-elect of the Association for Research in Vision and Ophthalmology (ARVO) during its 2023 annual meeting in New Orleans, LA.

Dr. Sada has served on the ARVO Board of Trustees for the past three years. In his role as president-elect, Dr. Sada will continue to serve on the board, as well as to begin planning for his term as president, which begins next May at the conclusion of ARVO’s 2024 annual meeting.

“We are eager to see Dr. Sada step into his new role,” said J. Mark Petrash, Ph.D., executive vice president of ARVO.

“His tremendous professional accomplishments in this field make him more than qualified for this position, and we are eager to see the impact of his leadership.”



From Left: Tommy Morehead and Dr. Alfredo Sadun, M.D., Ph.D.

DOCTOR-PATIENT PARTNERSHIP

“Expecting to simply visit an optometrist and get a new eye glass prescription, instead he was shocked to learn that he could be completely blind in less than a year.”

Vision and Life Restored

A Journey Back from Near Blindness

Fourteen years ago, Tommy Morehead was a college student planning to join the Marines when passing the enlistment eye exam proved difficult. Expecting to simply visit an optometrist and get a new eye glass prescription, he was shocked to learn that he could be completely blind in less than a year.

His eyesight's decline was sudden. Soon, his vision was so poor that he had to give up driving, leave college, stop playing the saxophone, and hold onto his dad's shirt to navigate public spaces. His diagnosis: Leber's hereditary optic neuropathy (LHON), an extremely rare genetic eye disease. The prevalence of LHON is only one in 50,000 people. In the United States, this translates to only 100 new patients diagnosed each year. A referral led him to the leading investigator of this rare disease, Alfredo Sadun, M.D., Ph.D., at Doheny.

As a mitochondrial genetic defect, LHON is only passed through the mother. It usually does not cause blindness until the patient reaches young adulthood. Men are typically affected at about the age of 20. Blindness appears first in one eye and then, after a delay—sometimes as short as several weeks—sight fails in the remaining eye. At present, there is no known cure for LHON; there are only treatments to mitigate the vision loss.

Through working with Dr. Sadun, Morehead was admitted to a trial for a new medication and, in fact, he was the first person on the planet to receive the drug. At first, the assumption was the therapy would cause an immediate response, but instead it took a longer course. At 18 months, the deterioration ended and slowly his vision started to improve. Today, his vision has been almost fully restored. In the decade since the trial, he has completed his college degree, landed his dream job in IT, once again plays in a jazz band, and gained full independence to live on his own.

Tommy Morehead still takes the medication and regularly sees Dr. Sadun. He is most fortunate. By making his way to Doheny, both his vision and his life were restored.



MORE TO KNOW

Dr. Sadun's research extends from LHON to Alzheimer's disease. Since apoptosis from mitochondrial impairment also underlies much more common degenerations, such as Parkinson's and Alzheimer's, LHON research and treatment is viewed as a forerunner of what might be possible with these more common diseases. These other degenerative diseases play out over the course of many decades, making them less amenable to study, while LHON occurs so rapidly that it provides opportunities to study many different responses and approaches.



Clockwise from Left: In June, guests enjoyed lunch, an update from CEO Marissa Goldberg, and a tour of the research labs.

Keeping Doheny’s Future in Your Plans

June Donor Luncheon Focuses on Planned Giving

“Plan Ahead!” could have been the motto of the donor luncheon hosted by Doheny Eye Institute on June 6. This annual event offered guests, composed of long-time supporters and donors, the opportunity to learn more about Doheny’s Circle of Caring, which is the Institute’s legacy society, and the benefits of planned giving through their estates to support Doheny’s vision research long into the future.

Kicking off the luncheon presentations, Chief Executive Officer Marissa Goldberg and Chief Scientific Officer Deborah A. Ferrington, Ph.D., shared updates on exciting ophthalmology research and discoveries, as well as the upcoming expansion on the Doheny campus.

Next, Lloyd Wong and Jennifer Maqueda of Clifford Swan Investment Counselors in Pasadena, discussed donor options available when making charitable gift plans. They focused on the benefits of Charitable Gift Annuities. This type of annuity is typically funded with asset gifts in the form of cash, stock, or property and provides donors with an immediate income tax deduction. The donor also receives fixed annual annuity payments for life while Doheny Eye Institute is the recipient of their generosity at the end of the annuity’s term.

They compared this planned giving vehicle to Charitable Remainder Trusts, pointing out that Charitable Gift Annuities offer donors a lower gift threshold, are easier to establish, and provide a reliable, fixed income stream for a donor’s lifetime. They explained how Charitable Gift Annuities can be a win-win for donor and recipient alike.

The afternoon concluded with a tour of the beautiful new Doheny campus in Pasadena. Guests were guided through the state-of-the-art research labs that are helping to accelerate research in key areas, including artificial intelligence, immunology, and imaging diagnostics.

We are thankful for the generous commitment made by Doheny Circle of Caring members. By including Doheny in their estate plans, their gifts ensure that the important sight-saving research conducted at Doheny will continue to benefit future generations.

Please remember the experienced staff at Doheny can help you to achieve your philanthropic goals. For more information, please contact Chief Development Officer Molly Ann Woods, CFRE, at mwoods@doheny.org.



Courtesy of the Arnold and Mabel Beckman Foundation; used with permission.

The Stephen J. Ryan – Arnold and Mabel Beckman Foundation Endowed Presidential Chair is currently held by Deborah A. Ferrington, Ph.D., Doheny's Chief Scientific Officer. This chair was established and is permanently supported through a gift from the Arnold and Mabel Beckman Foundation.

Endowed Chairs Strengthen Research

“Endowed chairs make Doheny more competitive,” notes Deborah A. Ferrington, Ph.D., Chief Scientific Officer at Doheny Eye Institute. This observation sums up just how powerful this form of generosity is within the world of academia and research, and for a non-profit research institute like Doheny.

In 1993, *U.S. News and World Report* began ranking the Best Ophthalmology Hospitals in the U.S. Doheny has always ranked in the Top 10, and, since affiliating with UCLA Stein Eye Institute a decade ago, the organizations together have ranked in the Top 5. This honor, based on the expert opinion of ophthalmologists across the country, also recognizes Doheny-UCLA physicians for treating patients with the most challenging vision needs. This success in patient care is built upon success in research and vision science, and Doheny is home to a competitive, winning team of researchers and clinician-scientists.

“Endowed chairs are essential to recruit and retain the best scientists. And for younger, emerging scientists, a short-term endowed position helps them transition more effectively and makes recruitment of the best talent easier.”

– Deborah A. Ferrington, Ph.D., CSO

Just as recruitment is key to building championship athletics teams, it is also essential for leading research institutions. Endowed chairs that support distinguished faculty or help recruit talented emerging researchers, are a centuries-old tradition to engage and retain the best scholars – which, in turn, helps sustain an institution's excellence.

Endowing a chair perpetually supports the work of the recipient through the annual investment return, which can be directed to support their position or research. For emerging scientists, temporary or transitional endowed positions aid recruitment by supporting their work while they get started publishing in scientific and medical journals and securing research grants. This type of position attracts the best talent of the next generation.

What is an Endowed Chair?

An Endowed Chair is a faculty position supported by income in perpetuity from a substantial philanthropic gift. The gift may come from an individual, group, foundation or corporation. The fund principal remains intact and is invested, while income from the fund supports the faculty member selected as the occupant of the Chair.

Endowed Chairs enable Doheny Eye Institute to compete with major academic medical centers by offering exceptional faculty members positions of prestige and honor within the Institute. Such visionary gifts also provide faculty with secured funding and represent an important vote of confidence in their research and clinical endeavors.



DOHENY
EYE INSTITUTE

NEWS IN BRIEF



Successful Doheny-UCLA Affiliation Marks 10th Anniversary

In December 2023, Doheny Eye Institute will mark the tenth anniversary of its affiliation with UCLA Stein Eye Institute. This ninety-nine year partnership agreement maintains Doheny’s independence, while the affiliation allows for each institute’s strengths to complement each other. It is a vision research and patient care alliance unlike any other. “The results over these past ten years have been extraordinary,” says Anne L. Coleman, M.D., Ph.D. Chair of UCLA Department of Ophthalmology and affiliation chair of Doheny Eye Institute. Doheny-UCLA Vice Chair Alfredo Sadun, M.D., Ph.D. points out, “We have two great institutions – programs that have storied histories and are regarded among the top ten in the world. We are now under one flag and one department and there is something wonderfully glorious about that.” Going forward, the affiliation continues to be an enormous success.

Steven Barnes, Ph.D., Selected to Receive Five-Year NIH Research Grant

Steven Barnes, Ph.D., has been selected to receive a five-year grant from the National Institutes of Health (NIH) for his research on retinal ganglion cell signaling regulated by intrinsic reactive oxygen species. This work is crucial for deciphering the complexities of retinal health and disease, and possesses the potential to transform the current approach to diagnosis, treatment, and prevention of neurodegenerative eye disorders.

Dr. Barnes received the Research Project Grant (R01), a significant NIH award of financial support. The grant also indicates research excellence with the power to transform scientific knowledge, improve patient outcomes, and drive progress in vision health.

“As we continue to work toward bettering our understanding of ocular diseases and vision research, this grant will help increase the depth of our knowledge,” says Dr. Barnes.

Doheny Eye Institute Again Ranked in Top Five by US News & World Report

Once again, *U.S. News & World Report* ranked Stein and Doheny Eye Institutes, UCLA Medical Center among the Top 5 Best Ophthalmology Hospitals for fiscal year 2023–2024. Doheny has been included in the Top 10 list of Best Ophthalmology Hospitals each year since the list originated in 1993, and in the Top 5 since our affiliation with UCLA Stein Eye Institute began in 2013. The rating is based on the expert opinions of physicians and ophthalmology specialists across the country, who regard Doheny as one of the best programs in the field of ophthalmology.

This ranking is a testament to the pioneering research and collaborative efforts of the leading vision scientists and clinician-scientists at Doheny.



Doheny Eye Center **UCLA** Coming Soon

Construction of the Doheny Eye Center UCLA Pasadena Clinic at our 150 N. Orange Grove Blvd. campus began on September 11, 2023. Completion is expected in about 16 months.

The 17,746 square foot state-of-the-art clinical space will include exam rooms, imaging suites, private spaces for patient-doctor consultations, and administrative offices. This buildout will bring our Doheny-UCLA patients to the heart of this world-class research campus.

At the same time, it will also bring together under one roof the physicians, principal investigators, and researchers of Doheny Eye Institute. The opportunity to share ideas and observations more easily, will catalyze face-to-face conversations which will help accelerate our vision research.

Watch for construction updates and news in upcoming issues of *InSight*, by email in *InSight* at a *Glance* and online at doheny.org.



From Left: Tom Foscue, Doheny Eye Institute Board Chair and joint board member Doheny Eye Institute and Stein Eye Institute, Marissa Goldberg, CEO Doheny Eye Institute, Anne Coleman, Director UCLA Department of Ophthalmology, and Ron Olson, joint board member Doheny Eye Institute and Stein Eye Institute



Thank you!

We thank our generous supporters and friends who help make the successful accomplishment of our mission possible. In appreciation of their generous contributions made from July 1, 2022 through June 30, 2023, Doheny Eye Institute recognizes the following donors:

CUMULATIVE GIVING RECOGNITION

The following donors have generously contributed to Doheny Eye Institute and are permanently inducted in the Carrie Estelle Doheny Society at Doheny Eye Institute.

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