

CITY NEWS

VOL 27 NO. 1
SUMMER/FALL 2016

the **MIRACLE** of **SCIENCE** with **SOUL**  City of Hope®



IT'S A PERFECT MATCH

EMMY-AWARD WINNING PRODUCER
MEETS HIS LIFESAVING DONOR **PAGE 6**

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LEADERSHIP MESSAGE

The stories in this edition of *City News* are nothing short of inspirational. There are countless examples of courageous patients, exemplary doctors and generous donors who epitomize the best of humanity and give hope to patients and their families around the globe.

We are at the dawn of game-changing progress with promising results across the board: gene therapy, immunotherapy and all aspects of precision medicine. I hope you enjoy reading John Garner's story of hope, "Getting Back on the Field." John is a high school football coach who underwent radiation and surgery for Merkel cell carcinoma under the care of one of our stellar surgical oncologists, Dr. Vijay Trisal. Coach Garner believes his experience forced him to be fearless and focused on living life to the fullest. After treatment, he wrote two inspirational books and has returned to coaching high school football. His message from his life-changing experience: "Take nothing for granted."

At City of Hope, we share Coach Garner's "take nothing for granted" attitude about cancer. That means we are taking the ball and running — reaching more people, healing more patients and pushing the envelope on science and research like never before.

Robert W. Stone
President and Chief Executive Officer
City of Hope

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City News is published quarterly for donors, volunteers and friends of City of Hope.
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CITYBUZZ

STARS SCORE A HOME RUN

BY LUCIANA STARKS

Thousands of fans turned out to see dozens of country music's biggest and hottest stars go to bat for City of Hope in the 26th Annual Celebrity Softball Game on June 7. The game, which was presented this year by Staples at Nashville's Tennessee Park, honored Bruce Hinton, one of the most respected music executives in the industry.

Before Team iHeart and Team Opry took to the field, 8-year-old City of Hope patient Aaron Yniguez was introduced for the first time to his lifesaving bone marrow donor Yolanda Nava, a Southwest Airlines employee from Texas.

Country music icon Trisha Yearwood kicked off the event by singing the national anthem. Team players included Vince Gill, Bret Michaels, RaeLynn, Jamie Lynn Spears, Mickie Guyton and a host of other beloved music and sports stars.



Above (L-R): Aaron Yniguez pictured with Yolanda Nava, Scotty McCreery, Danielle Bradbury
Below (L-R): Bret Michaels, Tristan McIntosh, Trish Yearwood, Vince Gill



RICHARD SUTER PHOTOGRAPHY



Kaplan Family Pavilion underneath
the canopy of our Tree of Hope

PHOTO BY BRUCE DAMONTE



HOPE FOR A GREENER FUTURE

KAPLAN FAMILY PAVILION RANKED HIGHEST BY THE U.S. GREEN BUILDING COUNCIL

BY MICHAEL EASTERLING

City of Hope's Arthur & Rosalie Kaplan Family Pavilion was recently certified LEED Platinum by the U.S. Green Building Council, the highest level of sustainability in their program. It is the first City of Hope building to achieve Platinum certification, and one of only a few in a health care setting nationally. LEED, or Leadership in Energy and Environmental Design, is a tiered rating system that recognizes sustainable design, construction, operation and maintenance, and is one of the world's most widely recognized programs of its kind.

Completed in 2014 and designed by Belzberg Architects, the 7,000-square-foot pavilion was constructed with our patients and staff in mind.

Located in the heart of the Duarte campus, the pavilion was built around the Tree of Hope, an existing camphor tree that provides a canopy for the facility and its promenade, and is conducive to healing and meditation. It is a popular spot for our patients.

To achieve Platinum status, a building must incorporate several design strategies that greatly reduce its environmental impact. The pavilion's design minimizes solar heat gain by orienting windows away from direct sunlight. Low-e glazing (or low thermal emissive glass), a highly efficient HVAC system and sensor-activated LED lights significantly improve energy efficiency and maintain comfortable conditions.

Other amenities that contribute to the building's "greenness" include low-flow faucets and toilets, drought-tolerant plants and permeable

walkways that allow water collection and improve efficiency of water use (particularly important in water-conscious California). Recycled materials such as reclaimed wood and weathered steel positively enhance the experience of the pavilion while reducing the draw on natural resources.



"This acknowledgment is proof of our commitment to sustainability and prudent investment in our infrastructure," says Jon Reuter, vice president of supply chain, facilities and construction management. "Sustainable architecture not only minimizes our environmental footprint, it also positively impacts the health and well-being of our patients and staff. Through efficiencies in design and the thoughtful use of materials, energy and development space, we are able to encourage and support healthy living."

ROCKIN' FOR A CURE

CHICAGO EXECS MAKE CANCER SING THE BLUES



PHOTO BY NICHOLAS JAMES FOCHTMAN

BY SARAH MARACCINI

The biggest names in Chicago real estate, construction and design took to the stage on April 28 in front of a full-capacity crowd at the House of Blues for the 20th anniversary of the REACH Social benefiting City of Hope.

Presented by longtime corporate partner Golub & Co, the show featured six bands made up of industry executives. The 2016 lineup included: Dr. Bombay, Liquidated Damages, Mad Cow, Spakl, The Square Feets and The Tall Guys.

Event chairs Lee Golub and Rick DuPraw of Leopardo led the effort to raise over \$350,000. The event has sold out year after year and the 20th was no exception, bringing the total raised since the event's inception to more than \$4 million.

Lee Golub and his band Dr. Bombay have performed at the event for more than 10 years. "The reason we're all so involved is that we get to play rock stars and raise money for an incredible organization," Golub says. "What could be better than that?"



Above: REACH Committee Member Dan Maslauski covering AC/DC

(L-R) Right: Real Estate Council President Matt Lituchy of Jay Paul Co. and 2016 *Spirit of Life* Honoree Eli Khouri of Equity Office



KUDOS FOR KHOURI

BY HEATHER OLINTO

Members of the Northern California Real Estate & Construction Council gathered in downtown San Francisco on May 18, to recognize the professional and philanthropic achievements of Eli Khouri, president and CEO of Equity Office, and to present him with the 2016 *Spirit of Life*® Award.

Khouri was deeply impacted by his experience. Reflecting on this honor, he said, "Outside of my family life, I've never had an experience nearly as rewarding and life-affirming as the one I've had with City of Hope. I would challenge anybody to take a deep look at what the amazingly talented, passionate and caring professionals here are doing, and to walk away with anything other than unbreakable optimism in the power of the human spirit."

Erik Hansen, a former City of Hope patient and Northern California real estate industry member, shared his inspirational story about the bone marrow transplant he received at City of Hope that saved his life. The event program featured a "Fund Appeal," which generated \$113,000 to benefit the Young Innovator Fund that provides resources for junior-level scientists to advance and strengthen their investigations. In total, the event raised \$940,000 in support of City of Hope's lifesaving mission.

The Northern California Real Estate & Construction Council was founded in 1986 and represents a cross section of developers, owners, brokers, contractors, architects, engineers and consultants with a single philanthropic goal: to support compassionate care and innovative research at City of Hope. To date, the Northern California real estate community has raised more than \$8 million. ■



THOMAS J. GERNON, M.D.

Thomas J. Gernon, M.D., is an associate clinical professor in the Department of Surgery. Board-certified in otolaryngology, he is dual trained in head and neck oncology and microvascular reconstruction, with special interest in treatment of patients with human papillomavirus-related head and neck malignancies.

SUSANTA K. HUI, PH.D.

Susanta K. Hui, Ph.D., D.A.B.R., clinical professor in the Department of Radiation Oncology, is focused on developing personalized/precision radiation medicine to enhance treatment efficacy with less toxicity, enabling hope for curing cancer without compromising on quality of life.



KIM A. MARGOLIN, M.D.

Kim A. Margolin M.D., is clinical professor in the Department of Medical Oncology & Therapeutics Research. Among 180 peer-reviewed articles, 60 invited reviews or editorials, and 16 book chapters, her most recent work has been in the area of melanoma metastatic to the brain and immunotherapy strategies for melanoma and other skin cancers.

FRANCK JUSTE, M.D.

Franck Juste, M.D., assistant clinical professor in the Department of Medical Specialties, is heavily involved in community outreach and travels to Haiti, his country of birth, each year for medical mission work. He is board-certified in internal medicine and geriatric medicine and speaks Spanish, French and Creole fluently.



WEILI SUN, M.D., PH.D.

Weili Sun, M.D., Ph.D., is an associate clinical professor in the Department of Pediatrics and director of pediatric leukemia. Her major research interest is to develop new therapeutic agents in pediatric leukemia and lymphoma. She is a member of the Scientific Review Committee of the Therapeutic Advances in Childhood Leukemia & Lymphoma Consortium, a multi-institutional scientific consortium focusing on early phase clinical trials in pediatric leukemia and lymphoma patients.



IN A SURPRISING PLOT TWIST, AN ANONYMOUS DONOR SAVES THE WRITER'S LIFE

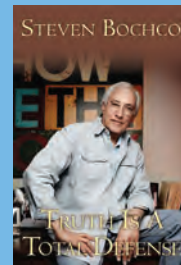
BY LETISIA MARQUEZ

AS THE EMMY AWARD-WINNING WRITER AND PRODUCER OF SUCH HITS AS "HILL STREET BLUES," "L.A. LAW" AND "NYPD BLUE," STEVEN BOCHCO IS USED TO DECIDING HOW DRAMAS PLAY OUT. But when he was diagnosed with cancer, he became an unwitting player in the biggest drama of his life. At that point, a complete stranger emerged as his personal hero.





In his latest book, "Truth is a Total Defense," Bochco documents his cancer journey at City of Hope, including his 70-day hospital stay and bone marrow transplant. He also shares the story behind his groundbreaking hits (and near misses) as a 50-year veteran in the television industry. His book is available now at Amazon.com.



☞ Once total strangers, Jon Kayne and Steven Bochco have developed a warm bond, thanks to the gift of life.

followed by the infusion of stem cells from an anonymous donor. The treatment worked, and within a few months, he was hiking, taking long walks and lifting weights again.

Grateful for the gift of life, Bochco was left wondering what would motivate someone to become a bone marrow donor, potentially saving a stranger's life.

On May 6, 2016 — 19 months after his transplant — he got to ask 25-year-old Jon Kayne himself.

The two met for the first time at City of Hope's 40th Annual Bone Marrow Transplant Reunion, a celebration held for 4,000 donors, survivors and families. Bochco had to wait for at least a full year after his transplant to learn Kayne's identity, due to patient privacy laws.

The annual reunion allows donors and survivors who have passed that 12-month mark to connect and begin a relationship that often lasts a lifetime. "I thanked Jon for the opportunity to treasure life more, and fear death less," says Bochco.

As for the hero of this story, family was on Kayne's mind when he joined a donor registry a couple of years ago, around the same time his grandmother was diagnosed with leukemia. He had already lost his grandfather to brain cancer and did not think twice about someone else in need. As for Bochco, he intends to spend a lot of time with his new friend, talking about their lives, interests and motivations.

For this Bochco drama, it's definitely a happy ending — with a new hero. ■

In 2014, Bochco developed a rare form of leukemia called blastic plasmacytoid dendritic cell neoplasm. A few days after being diagnosed, the terrified producer came to City of Hope for an opinion on treatment. With every employee he met, his comfort level grew.

"No institution is more than its people, and every single person I met at City of Hope was just remarkable," he says. "When you're dealing with a life-threatening illness, you want to feel good about the people you are entrusting your life to."

His oncologist, Stephen J. Forman, M.D., the Francis & Kathleen McNamara Distinguished Chair in Hematology and Hematopoietic Cell Transplantation, recommended a stem cell transplant, more commonly called a bone marrow transplant. Bochco agreed, and he then underwent two intense courses of treatment to achieve a remission of the disease. During this time, his physicians identified a fully matched volunteer donor to provide a normal bone marrow and immune system for him. He then underwent the transplant procedure at City of Hope Helford Clinical Research Hospital using chemotherapy to wipe out his marrow and immune system

PHOTOS BY VERN EVANS

“Going to City of Hope was the best decision I ever made,” said Amelia, who was diagnosed with cancer in her early 40s. “I am so grateful for the personalized care I received, and for the many resources they offer.” ~ Amelia Tena



Leading Lady

PATIENT GUIDES OTHER HISPANICS TO CULTURALLY SENSITIVE CARE AT CITY OF HOPE

BY NANCY BRANDS WARD

When Amelia Tena's breast cancer returned, she redoubled her efforts to beat it. Research revealed that City of Hope might be the best place to wage a winning battle, so that's where she headed. It was the right choice. Now in remission for more than nine years, Tena volunteers at City of Hope, providing counseling, mentorship and hope to Spanish-speaking patients.



PHOTOS BY DANTE MARSHALL

➡ Above, Amelia Tena. Above right, Patients like Tena, shown with her family, receive treatment, advice and education in their native language at City of Hope.

"Going to City of Hope was the best decision I ever made," said Tena, who was diagnosed with cancer in her early 40s. "I am so grateful for the personalized care I received, and for the many resources they offer."

Cancer is the leading cause of death among Hispanics. About one in three will be diagnosed with cancer in his or her lifetime, most commonly breast, prostate, colorectal, lung or thyroid. One in five Hispanic men and one in six Hispanic women will die from their disease.

Tena is helping to reach Hispanic patients by being featured in City of Hope's Hispanic marketing campaign, launched earlier this year through Spanish-language TV, radio, print, billboard, digital and social media. More than 8 million Hispanics live in the four counties surrounding City of Hope.

Getting Help ... in Spanish

"In the beginning, you are inundated with a lot of information. It's crucial to get a second opinion from a credible source, like City of Hope," Tena advises. "Make sure you receive your diagnosis and treatment options from a medical professional who speaks your preferred language, so that you and your family can easily understand your treatment options and make an informed decision, instead of second-guessing yourself," she adds.

I. Benjamin Paz, M.D., a Spanish-speaking surgical oncologist specializing in breast, gastrointestinal and rectal cancers, and bone and soft tissue tumors, agrees with the comfort level this provides. "We strive to give patients comprehensive, individualized care supported by the latest scientific discoveries. We treat our patients a few steps away from our medical research facilities, where physicians and scientists work tirelessly to develop medical breakthroughs that will result in lifesaving treatments."

City of Hope patients find Spanish-speaking and culturally sensitive physicians, nurses and support staff at the Duarte campus and community practice sites. A wide range of informational materials is available in Spanish.



"In addition to language, there are other important factors that make patients feel comfortable with treatment, particularly an understanding of religious beliefs, background and family structure," says Paz.

Extensive Support Programs

Even with the best of care, cancer treatments can be intense. Abiding by the philosophy that "there is no profit in curing the body, if, in the process, we destroy the soul," the staff at City of Hope offers patient education, support groups, social resources and mind-body therapies that patients need to meet their challenge.

To nurture herself, Tena does tai chi and takes long walks. She advises patients to do simple things every day that heal their souls, whether it's meditation, yoga or walking in nature.

Surrounding yourself with community and sharing feelings is also helpful in getting through the ordeal of a cancer diagnosis, treatment and recovery. That's why Tena started a Hispanic community group.

"It's important to share the knowledge you have with others, so they can learn from your experience and insights," she says. "This illness affects every aspect of your life, as well as your family, so talking about it with someone who understands will help you through this difficult time." ■

Learn more about City of Hope's breast cancer program and research. If you are looking for a second opinion or consultation about your treatment, request an appointment online at CityofHope.org or contact us at 800-826-HOPE.

NEW HOME, NEW HOPE

BY NANCY BRANDS WARD

Five years ago when Lia Reyes felt a lump in her breast, her mammogram came back negative. Still, she didn't like how the lump felt, so she requested an ultrasound. Next came an MRI, which suggested cancer, then a biopsy that ultimately revealed the Stage 2 malignancy growing in her breast.

**“
IT FELT GOOD
TO KNOW THAT
EVERY DOCTOR
AND PERSON
THERE FOCUSES
ON CANCER —
THAT ALL THESE
DOCTORS WERE
WORKING
TOGETHER.”**

~ LIA REYES

Determined and thorough, Reyes researched vitamins and drug interactions when it came time for chemotherapy. She visited dietitians and interviewed oncologists, surgeons and radiologists.

“I went through it by myself while working full time,” said the 49-year-old single mother of three, who owns her own consulting firm.

When searching for care, Reyes had initially been reluctant to go to City of Hope because of the hour-long drive to get there from her Southern California home. But when her medical oncologist, James R. Waisman, M.D., joined the comprehensive cancer center in 2012, she followed him there for her follow-up and specialty care.

“I guess the word is ‘hope,’” she said in describing her experience at City of Hope. “It felt good to know that all

these doctors were working together to focus on me and my cancer.”

Reyes, whose background is in operations planning and efficiency, continued: “I am very particular. Every image and scan taken was with extra time and care at City of Hope, something I had not experienced at other places. They make everything happen in a synchronized, coordinated way, so you're not wasting two hours between visits or procedures.

“As large as it is, it has almost a boutique feel — making you feel important, not just a number,” she said, adding that City of Hope's new Women's Center is “the best thing that could happen for women with breast cancer.”





VERN EVANS PHOTO

A satellite Positive Image CenterSM that recently opened adjacent to the Women's Center provides a wide variety of services and products to address appearance-related concerns specifically for women.

Professional cosmetologists specializing in cancer care offer consultation and help with the purchase of wigs and

other head coverings, mastectomy clothing, breast prostheses, skin care and therapeutic dilators to help maintain vaginal elasticity. These services "help patients feel less vulnerable and address treatment side effects that have significant impact on a patient's

“AS LARGE AS IT IS, IT HAS ALMOST A BOUTIQUE FEEL — MAKING YOU FEEL IMPORTANT, NOT JUST A NUMBER.”

~ LIA REYES

well-being," said Natalie Schnaitmann, L.C.S.W., director of operations for the Sheri & Les Biller Patient and Family Resource Center.

The Positive Image Center provides services without cost on a walk-in basis. Retail products are sold at subsidized rates.

A positive approach to dealing with the disease is what Reyes credits for getting through her battle with breast cancer, which she said remains in remission.

"I cried the first day I had an [chemotherapy] injection," she said, lamenting how much she'd done throughout her life to keep her body healthy. Then she steeled herself: "OK, I'm gonna get this done. My mental approach to it was as a 'project.' I had a whole schedule from the day I started until now." ■

The Women's Center represents a new model for how City of Hope is delivering coordinated care based on the disease being treated. Opened in February in a new location on the lower level of the Geri & Richard Brawerman Ambulatory Care Center, the Women's Center serves as a central hub for patients to access the full range of health care professionals, including physician specialists (breast and gynecologic cancer surgeons and medical oncologists, plastic surgeons, geneticists and supportive care physicians), nurses, genetic counselors, schedulers, social workers and other members of the supportive care team, financial counselors and other health specialists.

Before the Women's Center opened in its newly renovated 16,000-square-foot space, Reyes remembers having to go one direction to see her medical oncologist, another direction to visit her gynecological oncologist, and then downstairs and out the door to get a mammogram. If she wanted to talk to a counselor she had to go to still another location.

She's now able to see everyone by walking through a single door at the Women's Center, which provides these services:

- Diagnostic visits
- Clinic visits and minor procedures
- Genetic counseling
- Mammography and tomosynthesis imaging
- Ultrasound imaging
- Bone density testing
- Stereotactic breast biopsy
- Follow-up and supportive care

Reyes mentioned the sense of serenity she feels in the tastefully decorated, bright and spacious facility, as well as the comforting way the Women's Center brings caregivers together in close proximity to facilitate collaboration.

Though Reyes didn't experience any permanent external physical changes from her cancer treatment, the disease and its treatments frequently cause a range of uncomfortable side effects from chemically induced menopause and skin burns to hair loss and physical alterations.



WE

DON'T BELIEVE

THE FUTURE CAN WAIT

FOR THE FUTURE

We are City of Hope doctors. We advance science that saves lives. City of Hope research has led to the development of synthetic human insulin and four of the most widely used cancer-fighting drugs. We are maximizing the potential of immunotherapy and making precision medicine a reality. With our three manufacturing facilities we can turn laboratory discoveries into new therapies faster. Over the last 40 years we have performed more than 13,000 bone marrow and stem cell transplants with unparalleled survival rates. Now we are pioneering stem cell therapies for patients with cancer, diabetes, even autoimmune diseases. It all comes down to this. It's not enough to promise your patient a future cure. You must find it now. This is the passion that has driven us for over a century: to discover the crucial answers that don't exist today. Find out more at CityofHope.org.

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of **SCIENCE**

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GETTING BACK ON THE FIELD

BY DENISE HEADY

SURPRISINGLY, A CANCER DIAGNOSIS CAN BE LIFE-AFFIRMING. JUST ASK JOHN GARNER. IN 2011, GARNER WAS DIAGNOSED WITH MERKEL CELL CARCINOMA, A RARE SKIN CANCER THAT AFFECTS ONLY ABOUT 1,500 PEOPLE IN THE UNITED STATES EACH YEAR. IT GROWS QUICKLY, OFTEN METASTASIZING IN ITS EARLY STAGES. GARNER'S WAS SO ADVANCED THAT HE WAS GIVEN LITTLE CHANCE OF BEATING IT. BUT HE NEVER LOST HOPE. NOT EVEN FOR A MINUTE.

"I gathered that the part about being 'incurable' meant I was going to die, but no one could say when," Garner remembers. "I wanted to live."

Garner credits the disease for pushing him to be fearless and return to his first loves: writing, running and coaching high school football.

"You may think I'm odd for saying this, but cancer just might be best thing that ever happened to me," says the 66-year-old former infantry officer and teacher.

The Comeback Kid

Immediately after being diagnosed, Garner started treatment at City of Hope under the care of surgical oncologist Vijay Trisal, M.D., associate clinical professor in the Division of Surgical Oncology. After receiving radiation, he underwent successful removal of the tumor in surgery.

Although there was a good chance the cancer might return, Garner didn't sit around waiting

for it. After an eight-year hiatus from coaching, he took on the freshman football team at Barstow High School in California.

He also began working on two books:

The Comeback Season, a remembrance of the ups and downs of the year his cancer was supposed to return, and *Letters from Coach*, a collection of encouraging letters he had written to players, family members, friends and even his deceased parents about his medical battle and the lessons it was teaching him.

Now cancer-free after five clean scans, Garner expects to have many more years to do what he loves most. Today, he is training to become a long-distance runner and serving as offensive-line coach for the Apple Valley High School football team — a role that allows him to pass on his never-give-up attitude and willingness to face adversity to young players.

"I don't know why I'm still alive," he says.

"I am so excited by how my life has changed, and by what I've learned about myself since being diagnosed," he says.

"I did a lot of crying these past five years — not because I was sad, but because I was so damn grateful for the life I'm living. It's a great life. I take nothing for granted." ■

➔ John Garner revisiting his Hope Village apartment where he stayed during his treatment at City of Hope.



GENE THERAPY MAKES A POTENT WEAPON AGAINST LETHAL DISEASES

BY JAY FERNANDEZ

Hard to believe it was once considered little more than theory. Or the stuff of science fiction.

Gene therapy — the process of fighting lethal illnesses at the cellular level — has continued to take bold steps out of the laboratory and into the realm of potentially lifesaving treatments.

It is no longer beyond imagination, or even far-fetched, to envision a day when, thanks to edited genes, advanced brain tumors disappear, hemophiliacs create their own clotting factor and HIV patients can stop taking their daily antiviral drugs.

“The field of cell-based therapy is becoming more mature,” says John Zaia, M.D., the Aaron D. Miller and Edith Miller Chair in Gene Therapy and director of City of Hope’s Center for Gene Therapy.

➔ John Zaia, M.D.



In typical City of Hope style, theoretical science is getting down to business, with multiple clinical trials underway at the now 1-year-old City of Hope Alpha Clinic. Patients are being recruited to test the safety of gene-based treatments for several cancers, as well as hemophilia and HIV/AIDS.

Zaia, who has devoted much of his professional life to the AIDS battle, is especially excited about two unique stem cell transplant options that target HIV in different ways. One employs a zinc finger nuclease, or ZFN, to “edit out” a certain receptor (CCR5) on a patient’s harvested stem cells, then reintroduces them to the body. The modified cells deny HIV its normal path to infection.

Another promising approach uses a lentivirus to add re-engineered, anti-HIV ribonucleic acid (RNA) genes to stem cells, including one that also disrupts CCR5.

In March 2016, the first patient received this treatment under a Food and Drug Administration (FDA)-approved trial, which permits only one participant at a time. Four months later the patient is tolerating the treatment well, and the accumulated data is providing critical information.

As encouraging as the early results may be, they are baby steps. Patients must receive an extremely potent dose of chemotherapy before starting treatment, and current therapies modify only a small percentage of a patient’s stem cells. Zaia hopes one day to develop a more efficient mechanism which would fortify a much larger percentage of stem cells, while protecting them from chemotherapy’s toxic effects.

One possibility may emerge from the treatment of brain tumors performed by collaborators at the Fred Hutchinson Cancer Research Center. The usual chemotherapy drug of choice, BCNU, can be seriously toxic to bone marrow. When researchers altered a gene known as MGMT, the BCNU chemotherapy worked more effectively and the marrow was protected. It remains to

be seen whether this approach would provide similar protection in HIV patients. The possibility is intriguing, and it’s one of many reasons Zaia stands by his prediction of a year ago, that a “functional cure” for HIV/AIDS (in which the virus is effectively blocked and daily drugs are no longer needed) may be just five years away.

In the meantime, gene-based technology is making inroads in other Alpha Clinic trials.

For example, the ZFN technique is being adapted for the treatment of hemophilia in which there is a lack of clotting factor. Using the same gene-editing mechanism, researchers have been able to “cut” a normal “housekeeping” gene and introduce

a “corrected” version of the clotting factor into the liver. The process has worked in animal tests, and human trials will begin soon.

Newer gene-editing methods are emerging as well, including the much-talked-about “CRISPR” technology which can find, cut out and replace specific parts of DNA using a specially programmed enzyme.

Researchers in China are in the world’s first human trials, and the FDA has approved trials in the U.S., beginning probably next year. Zaia advises caution:

“We do not have clinical trials going for CRISPR-type treatment just yet; it’s much too new and we need to learn more about it. Bear in mind that it took nearly 15 years to get ZFN approved for human patients. But this could eventually be a game-changer, helping us direct our gene-editing efforts with much greater precision.”

The major partner in City of Hope’s gene therapy journey continues to be California’s stem cell agency, the California Institute for Regenerative Medicine. CIRM grants helped establish the Alpha Clinic and other facilities across the state, and CIRM funding is fueling many of the ongoing clinical trials, including Zaia’s.

“California is ahead of the curve,” he says, “changing the culture of gene therapy.” ■

**IN TYPICAL CITY OF HOPE
STYLE, THEORETICAL
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DOWN TO BUSINESS,
WITH MULTIPLE CLINICAL
TRIALS UNDERWAY**

ONE GRADUATE'S STORY

BY VERONIQUE DE TURENNE

A RECENT GRADUATE OF CITY OF HOPE'S IRELL & MANELLA GRADUATE SCHOOL OF BIOLOGICAL SCIENCES, CECILIA CHOY, PH.D., SPENT THE PAST FIVE YEARS STUDYING HOW CANCER SPREADS TO THE BRAIN.

She toiled under the supervision of neurosurgeon and scientist Rahul Jandial, M.D., Ph.D., associate professor in the Division of Neurosurgery. Their mutual respect is obvious.

"Brain metastases are rarely explored scientifically, so when I had the opportunity to work in the lab investigating this type of brain cancer, I was thrilled at the opportunity," says Choy.

"Cecilia's immense talent and hard work raised the bar for my lab and helped me grow as a mentor and principal investigator," says Jandial.

Working on ovarian cancer in a pathology lab during college triggered Choy's interest in doing bench work in a laboratory. After finishing her master's degree, she knew she wanted to pursue her doctorate at City of Hope.

"I was drawn to its small school size and knew I wanted to continue in the field of cancer research — something City of Hope excels in," she says.

"You are always learning something here. Coming to City of Hope was the best choice I could have made."



ELEVEN STUDENTS RECEIVE PH.D.S IN BIOLOGICAL SCIENCES

On a picture-perfect California evening, 11 jubilant graduates of the Irell & Manella Graduate School of Biological Sciences finally reached the finish line. After years of intensive study and training, the diverse group received their long-awaited Ph.D. degrees.

An audience overflowing with families, friends and colleagues clapped and cheered as each student accepted a scroll. The students hailed from as nearby as Arcadia, California, and as far away as India and Hong Kong. Kandis Marie Stubblefield, the school's first African-American graduate, was among them.

"Relish and cherish this moment, for few will compare," said Steven T. Rosen, M.D., provost and chief scientific officer of City of Hope, to the graduates in the Rose Garden of City of Hope's Duarte campus. "This is not the end of your journey, but just the beginning."

Celebrated geneticist and Nobel laureate Bruce Beutler, M.D., gave the keynote address. He spoke of his own lifelong devotion to science, and offered the graduates advice and encouragement.

"You are graduating from a truly distinguished institution. City of Hope

is a gem at which a few of the most important advances in biology have occurred — and I know, because I was here to see them happen," he said.

He urged the graduates to challenge convention and to question authority, and cited independent thinking a hallmark of the successful scientist.

Established in 1994, the Irell & Manella Graduate School of Biological Sciences trains students in the fields of chemical, cellular and molecular biology, bioinformatics and genetics. The school is hosted by Beckman Research Institute of City of Hope.

The Ph.D. program gives scholars a place to conduct translational research, while allowing them to collaborate with scientists and physicians at the top of their respective fields.

Although the graduates are now moving on to new opportunities, their ties to City of Hope will remain strong.

"Each of you, now and for eternity, will be bound to City of Hope," Rosen told the new graduates "As you each face challenges in your careers, remember that we are here for you. Never hesitate to take advantage of our sincere commitment to your welfare and the opportunities that lie ahead." ■

"THIS IS NOT THE END OF YOUR JOURNEY, BUT JUST THE BEGINNING."

**~ STEVEN T. ROSEN, M.D.,
IRELL & MANELLA
CANCER CENTER
DIRECTOR'S
DISTINGUISHED
CHAIR**



Irell & Manella Graduate School of Biological Sciences Ph.D. recipients include: Cecilia Lee Choy, Sean Michael Howard, Hubert Li, Jodi Lehiwa Kazuyo Murakami, Karineh Petrossian, Mike Alan Reid, Sangeetha Satheesan, Lindsey Michelle Skrdlant, Kandis Marie Stubblefield, Ben Yi Tew, Desiree Faye Van Haute

PARTNERSHIP MAKES GOLD STANDARD CANCER CARE AVAILABLE IN UNDERSERVED COMMUNITIES

THIS TIME, SOUTH BAY, SANTA CLARITA AND
SAN FERNANDO VALLEYS TO BENEFIT

BY ALEXANDRA GALLO

Why are City of Hope and two Providence Southern California hospitals partnering to expand access to cancer care?

The nation faces a growing need for oncology care at a time of increasing complexity of treatment, increased demand and rising costs. In this era of health care reform, both organizations have a common strategic intent to expand patient access to high-quality oncology services through an accountable, clinically integrated system of care delivery that brings care closer to patients.

With health reform changing the health care environment, provider networks are narrowing and new payment models are being created.

City of Hope and Providence have a shared culture, focused on the needs of expanding access to high-quality cancer care, and a deep commitment to Southern California. That shared culture emphasizes the importance of working collaboratively with others. City of Hope has a track record of bringing specialty services, when needed, that complement existing services — keeping high quality cancer care close to home for patients — and City of Hope physicians already are providing services in our cancer program at Providence Holy Cross Medical Center. These collaborations have worked within our medical communities, adding value and providing additional skill and expertise to our patients.

How will the partnership help patients?

This partnership expands upon the existing presence City of Hope has at Providence Holy Cross Medical Center and it will support the opening of a City of Hope multidisciplinary cancer center in the future Providence

Advance Ambulatory Care Center in Torrance. These two Providence hospitals are committed to growing oncology through and with City of Hope. The elements of this partnership include:

- Expansion of City of Hope's geographic footprint into the South Bay with the development in 2018 of a multidisciplinary City of Hope cancer center in the Providence Advance Ambulatory Care Center now under design in Torrance
- Provision of oncology program leadership through medical directorships
- Collaboration to bring specialized physicians to the communities
- Participation by City of Hope physicians in Providence's oncology clinical program group to influence evidence-based practice protocols on how to tailor cancer treatments to specific patients with specific conditions as a way to improve quality outcomes
- Offering patients throughout the communities served by Providence Little Company of Mary and Providence Holy Cross comprehensive quality oncology services, including access to City of Hope's clinical trials within City of Hope's local cancer centers
- An intent to work together in managed care programs that will ensure cancer patients get the highest-quality care in the right setting
- Exploration of other opportunities, including screening programs

When does the change take effect?

City of Hope physicians and services are already at Providence Holy Cross. We expect to integrate our new team at Providence Little Company of Mary in Torrance over time, with the City of Hope cancer center and Providence cancer services targeted to open in Torrance in 2018. ■

TOGETHER WE ARE



20TH ANNIVERSARY

WALK FOR HOPE

WOMEN'S CANCERS WOMEN'S CURES

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SUNDAY, NOVEMBER 6, 2016

5K/2K Walk Start/Finish at City of Hope
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WALK4HOPE.ORG

WALK FOR HOPE DONORS HELP CITY OF HOPE IMPROVE CANCER TREATMENT



BY DENISE HEADY

FOR TWO DECADES, THOUSANDS OF CANCER SURVIVORS, PATIENTS, FAMILIES AND FRIENDS HAVE PARTICIPATED IN CITY OF HOPE'S ANNUAL WALK FOR HOPE. THEY DO IT TO RAISE MONEY AND AWARENESS FOR WOMEN'S CANCERS AND TO HONOR MOTHERS, WIVES, DAUGHTERS, SISTERS, AUNTS AND FRIENDS WHO HAVE FOUGHT — AND WILL FIGHT — THE DISEASE.

"There is pride in knowing that we are working together to create a world where cancer will no longer be a threat to women or rob them of another year with their loved ones," says walker and donor Yvonne Bernal.

\$38

MILLION RAISED

**FOR CITY OF HOPE'S
WOMEN'S CANCERS
PROGRAM
SINCE 1996**





RAISING BIG MONEY FOR BIG GOALS

Since 1996, Walk for Hope has raised more than \$38 million for City of Hope's Women's Cancers Program. The money is used to support research, treatment and education programs for all women affected by cancer.

This year's event marks the 20th anniversary of the Walk. Here are a few ways in which the event is helping improve cancer treatments:



IMPROVING PERSONALIZED TREATMENT FOR BREAST CANCER

Joanne Mortimer, M.D., the Baum Family Professor in Women's Cancers and director of the Women's Cancers Program, is using the novel imaging agent 64Cu-DOTA trastuzumab, developed at City of Hope, in PET scans to highlight areas of the body with HER2-positive cancer cells. This approach improves therapy by identifying whether a woman should be treated with HER2-specific treatments and also shows where the cancer has spread — information that can't be obtained from a single biopsy.



IDENTIFYING CANCER RISKS AND DISPARITIES IN LATINAS

Genetics researcher Jeffrey Weitzel, M.D., has devoted his career to helping individuals and populations at increased risk for developing cancer due to family history or personal risk factors. His research on the role of BRCA gene mutations (which increase the risk of breast and ovarian cancers) in Latinas led to the groundbreaking finding that BRCA mutations may be present in 25 percent of U.S. Hispanic women. Weitzel is at the forefront of developing low-cost genetic screening materials, as well as training doctors and nurses for underserved populations in Peru, Colombia and Mexico.



IMPROVING CANCER TREATMENT AND CARE FOR SENIORS

Cancer care has few protocols for the elderly. As director of City of Hope's Cancer and Aging Research Program, Arti Hurria, M.D., is working to change that by creating new tools to better evaluate the health of seniors diagnosed with cancer. A professor in the Department of Medical Oncology & Therapeutics Research and Department of Population Sciences, who was first trained as a geriatrician, Hurria is conducting leading-edge research into the effects of chemotherapy on older patients with breast cancer.



PROVIDING MORE THAN MEDICAL CARE TO PATIENTS

Cancer patients need more than medical care: They need supportive care that addresses their physical, emotional and spiritual well-being. As an international pioneer in integrated care, the Department of Supportive Care Medicine at City of Hope provides a multidisciplinary team of caregivers who work together to assess what cancer patients and their families need and then fulfill that need. Specialized programs, such as art, music and pet therapy, have been created to help minimize the impact of illness, manage its symptoms, and deepen the meaning of life for patients and their loved ones. ■

SUPPORTINGHOPE

A PASSION FOR PREVENTION

A PASSION FOR CANCER PREVENTION AND FOR CITY OF HOPE

BY PHYLLIS FREEDMAN

Leslie Bernstein, Ph.D., never imagined that she would have a distinguished career as a cancer prevention researcher. Her career trajectory was delayed when, at age 18, she married her husband, Saul, and gave up her career to become a mother.

While raising their three children, Bernstein continued to take classes, eventually earning her degree in biostatistics at USC. She was hired in the Department of Preventive Medicine at USC, where she remained for 30 years. During those years she developed a program in cancer epidemiology, focusing on breast cancer and non-Hodgkin lymphoma, and developing the California Teachers Study, which includes more than 134,000 women who have been followed for cancer development for nearly 20 years. As Bernstein was considering the next chapter in her career, she was offered a position at City of Hope.

One of the distinguished scientists behind some of City of Hope's most important research, Bernstein, professor, Division of Cancer Etiology, is known for studies of the hormonal basis of breast cancer.

"Instead of selling stock and paying the taxes, I used a portion of the IRA funds to make a gift to City of Hope"

~ Leslie Bernstein, Ph.D.

She was awarded the Brinker Award for Scientific Distinction by the Susan G. Komen Foundation and is the only woman to receive the Outstanding Achievement in Cancer Prevention Research Award from the American Association for Cancer Research.

When her husband passed away, Bernstein inherited his IRA. She realized she was in a position to use some of those funds to make an IRA rollover gift to City of Hope — making her own contribution to address City of Hope's funding needs.

"I wanted to do something for City of Hope and because my IRA rollover gift saves me on taxes, it also allows me to make a larger gift than I would otherwise be able to make," she says. "Instead of selling stock and paying the taxes, I used a portion of the IRA funds to make a gift to City of Hope. In addition to my professional association with City of Hope, I have friends who have been treated there. I am grateful for the care they have received. And I am glad to have the opportunity to give back."

City of Hope supporters age 70 ½ or older may use a portion of their Required Minimum Distribution to make an IRA rollover year-end gift to City of Hope. Doing so avoids income taxes on the amount donated, up to \$100,000 per person. To be eligible for 2016 tax savings, the transfer must be executed by Dec. 31. Learn more and download a sample letter you can send to your IRA administrator directing a gift to City of Hope at myplanwithcoh.org/ira-gift.



Leslie Bernstein, Ph.D., Professor, Division of Cancer Etiology, Department of Population Sciences



TOM BROWN PHOTO



PEET'S: GREAT COFFEE, GREAT PARTNER

BY MINDY FINKELSTEIN

Peet's Coffee is serious about two things: coffee and curing cancer. For five consecutive years, Peet's Coffee has partnered with City of Hope to raise awareness and funds for our lifesaving mission. In their annual promotion, Peet's Coffee and their west coast retail partners including Lucky, Raley's, Safeway and Save Mart will feature 12-ounce bags of coffee that will generate a 50 cent donation to City of Hope for every purchase, with an expected contribution of \$100,000 when the program concludes. We are incredibly grateful for Peet's ongoing collaboration that has generated more than \$200,000 to date.

\$5 MILLION GIFT SUPPORTS INTERNATIONAL RESEARCH PARTNERSHIP

BY NOËLLE GERVAIS

Innovation and collaboration are key to our research, and those associations extend beyond the Duarte campus, and take us around the world. Through the generosity of a \$5 million grant from The Harvey L. Miller Family Foundation, the Jacki and Bruce Barron Cancer Research Scholars' Program has been established to promote the exchange of ideas and information between exceptional cancer researchers in the U.S. and Israel.

This exciting collaborative effort between City of Hope and the Israel Cancer Research Fund (ICRF) will support translational and clinical research by scientists from both organizations, create sabbatical opportunities here and in Israel, and allow for postdoctoral training for promising Israeli scientists on-site at City of Hope. The great minds will gather at an annual symposium to share progress and discoveries.

"We are extremely grateful for the Miller family's support and excited to launch

this international endeavor," says Provost and Chief Scientific Officer Steven T. Rosen, M.D.

The program is named after Chicago philanthropists Jacki and Bruce Barron, longtime supporters of City of Hope and ICRF. Bruce Barron is the co-founder of Origin Ventures, a venture capital fund that invests in early-stage technology companies. Jacki Barron is a career mom, political activist and a two-time breast cancer survivor. She has mentored many women with breast cancer, and comforted women undergoing chemotherapy.

"Having this incredible program named in our honor is humbling," the Barrons said in a statement released after the announcement. "It is especially gratifying to know the program will support cancer research within two institutions that we care so much for."

The Harvey L. Miller Family Foundation also endowed The Harvey L. Miller Family Foundation Translational Technologies Center, which has helped investigators develop first-ever human clinical trials for both solid tumor and blood cancers.



Bruce and Jacki Barron
with Steven T. Rosen, M.D.
and Harvey L. Miller

ESSENDANT ANNOUNCES \$1 MILLION MATCH

BY MATT DODD

The leadership of the National Business Products Council for City of Hope has established a new industry personal giving goal and program to raise \$3 million over five years for the National Business Products Industry Chemical Good Manufacturing Practice (GMP) Synthesis Facility at City of Hope.

In support of 2016 *Spirit of Life*® honoree Joe Templet and to help kick-start the National Business Products Industry's newest fundraising project, Essendant has generously offered \$1 million in matching funds. For donations of any amount, including annual NBPI personal gift clubs, Essendant will match gifts dollar-for-dollar up to \$1 million,

doubling the impact of individuals' generous contributions. To learn more and donate, visit CityofHope.org/gmp.

"We are thrilled to support Joe and City of Hope's lifesaving mission in this meaningful way," said Essendant CEO Bob Aiken. "We encourage all in the industry — business partners, competitors, industry peers and their employees to participate now with your

generous donation. For all of us, joining City of Hope in our mutual quest to eradicate cancer and diabetes is personal. Most of us have loved ones who have dealt with these terrible diseases in some way. The potential new lifesaving therapies emanating from City of Hope's GMP facilities and clinical trials are inspiring. City of Hope's impact on humanity is already astounding, with millions of patients benefiting each year from their research discoveries. With our help and support, hopefully we will expedite the development of the next generation of lifesaving therapies so more patients around the world may benefit from our collective efforts with City of Hope."

Gift levels begin at just \$10 and also include higher-level donation opportunities payable over five years that include name recognition on the City of Hope campus and inside the National Business Products Industry Chemical GMP Synthesis Facility. For additional information, contact Matt Dodd at mdodd@coh.org or visit CityofHope.org/gmp.



Left: 2016 *Spirit of Life* honoree Joe Templet set a new standard of giving.

KARINA PIRES PHOTOGRAPHY

HERITAGE PROVIDER NETWORK ENDOWS TWO PROFESSORSHIPS

BY LUCIANA STARKS

City of Hope has added two endowed professorships in key fields of cancer research, thanks to Richard Merkin, M.D., president and CEO of Heritage Provider Network. Christine Brown, Ph.D., has been named Heritage Provider

Network Professor in Immunotherapy. As associate director of the T Cell Therapeutics Research Laboratory, she will work closely with Stephen J. Forman, M.D., in preclinical and clinical programs focused on developing forms of T cell therapy to help a patient's immune system fight off cancer. Nanhai

Chen, Ph.D., a research professor in the Department of Surgery, is the new Heritage Provider Network Professor in Gene Therapy. Chen will work with Yuman Fong, M.D., an internationally recognized expert in liver and pancreatic cancer and in the use of genetically modified viruses to fight cancer.



HILTON FOUNDATION GIVES \$2.5 MILLION

BY LETISIA MARQUEZ

The Conrad N. Hilton Foundation has given City of Hope \$2.5 million for programs aimed at reducing cancer risk in the Los Angeles area by improving nutrition and lowering rates of obesity among school children and their families. The grant will support a number of community-based partnerships that encourage physical activity and healthy eating in underserved populations, fund research aimed at identifying the best ways to prevent cancer through diet, and encourage the adoption of school and government policies that foster a healthy lifestyle. "Making a few nutritional and lifestyle changes can have a profound impact on preventing cancer and other serious medical conditions," says Steven T. Rosen, M.D., City of Hope's provost and chief scientific officer, and the initiative's principal investigator.

HIKING FOR HOPE

BY DANIELLE SAPIA

For 18 years, the Agua Caliente Band of Cahuilla Indians have generously sponsored City of Hope's Hike4Hope event. On March 6, over 700 participants and 120 hike leaders trekked through the beautiful Indian Canyons in Palm Springs, California, and were pleasantly surprised with a colorful double rainbow that added a special meaning for many. Participant Bernadette Balance said it best: "What a beautiful gift from God to remind us never to give up hope, and how perfect for an event such as this ... the Hike4Hope for City of Hope."

Hike4Hope offers several hikes ranging from easy to strenuous. Following their hike, participants gather at the celebration to enjoy refreshments, claim

their T-shirt, honor survivors and warriors and remember loved ones.

Co-chaired by loyal City of Hope supporters Eileen Stern and Elaine McLain, Hike4Hope and The Desert Women's Council have raised well over \$3 million to date in support of women's cancers research, treatment and education.

City of Hope would like to acknowledge and thank the Coachella Valley and Desert Trails Hiking Clubs for donating their time and talents to this wonderful event and to the Agua Caliente Band of Cahuilla Indians for donating the use of their beautiful canyons. Other sponsors included Banner Mattress, Desert Lexus, Driscoll's and Food4Less. Without their support, Hike4Hope wouldn't be possible.



Above: 2016 Hike4Hope hikers

PICTURE_{THE}PAST



Glamour Goes to Bat

BY SUSAN DOUGLASS YATES

Dating back to the 1920s, the movie industry has been a supporter of City Hope. This support took many shapes and forms, including the Warner family funding a hospital and Bob Hope lending his star power at events. In 1949, the stars came out in full force by touring the country and playing baseball in major cities to raise money for the hospital. More than 40 actors participated in the Movie Star World Series. Called the “biggest event in the history

of dis-organized baseball,” in City of Hope’s publication *Torch of Hope*, the tour opened at Los Angeles’ Wrigley Field. Additional games were played in Chicago, Cleveland, Detroit, Boston, Philadelphia, Washington, D.C., New York and Pittsburgh.

A Movie Star World Series souvenir program produced for the event featured the participants who played for the opposing teams, the Comedians and Tragedians. Those attending the game could fill in the lineup for the teams in the center of the card. Sideline comedy routines and the presence of celebratory bat girls wearing uniforms designed by famed film costumer Edith Head supplemented action on the field. Attendees and stars alike enjoyed the American pastime while raising funds to help a great cause.

PHOTO COURTESY OF CITY OF HOPE ARCHIVES

ourHOPE

ourHope is City of Hope's personal fundraising website and a way for you to directly support the cause closest to your heart.



OURHOPE MAKES IT EASY TO RAISE MONEY FOR CITY OF HOPE

During my tenure at City of Hope, I was constantly inspired by the research, my colleagues and the patients I would cross paths with daily. When I was given a flyer for the ourHope fundraising platform, I saw it as my calling and I decided to dedicate my love for running to help City of Hope's mission. ourHope is great — it's easy to use and you can dedicate any event you wish to help City of Hope, which truly makes a difference.

—Heather Javier

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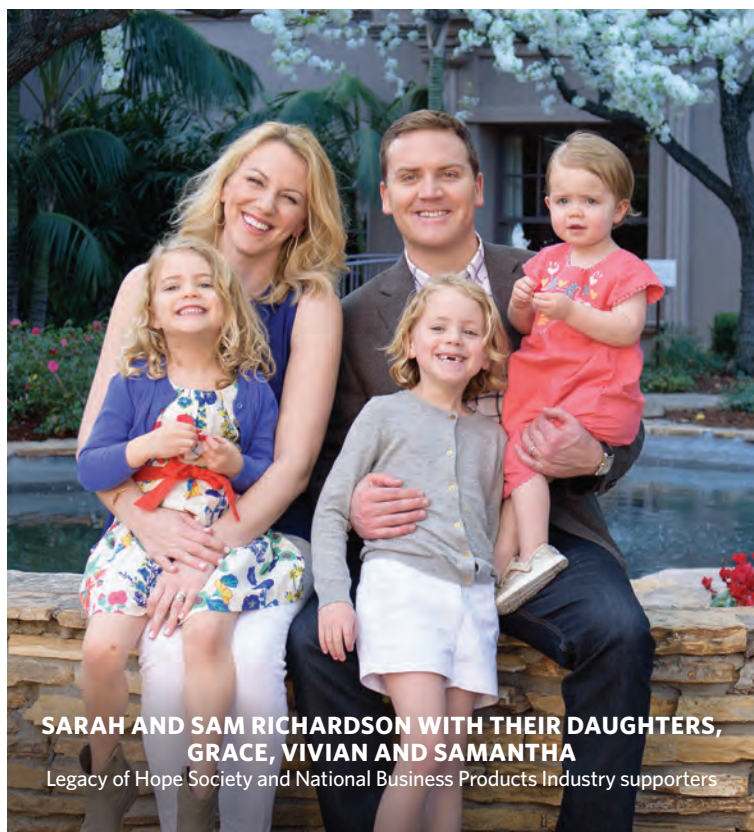
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**SARAH AND SAM RICHARDSON WITH THEIR DAUGHTERS,
GRACE, VIVIAN AND SAMANTHA**
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TURNS OUT, YOU DON'T HAVE TO BE A DOCTOR TO HELP CURE CANCER

Create a legacy of healing and hope for those with cancer, diabetes and other serious illnesses by leaving a gift to City of Hope in your will. Most gifts cost you nothing now and there is no minimum contribution required. Contact Amy Goldman to discuss giving opportunities that meet your personal objectives at plannedgiving@coh.org or 800-232-3314 or request our complimentary planning publications at www.myplanwithcoh.org.



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