This world is full of problems that just can’t wait.

At Keck Graduate Institute, neither can we.

KGI students are taught and encouraged to solve real-world problems from day one. Dedicated, research-active faculty members work with students in an intimate setting to tackle problems by asking “how?”

How can we fix it?
How can we create it?
How can we eradicate it?
How can we invent it?
How can we prevent it?
How can we control it?

From creatively engineered medical devices to compassionate cures for the world’s rarest diseases, there are a thousand different answers to the question “how?”

But the answers all have a common denominator: You.

When a student enters KGI, she or he is ready to discover “how” because you provided tools to help do so. Perhaps you supported a pharmacy student with a scholarship. Or maybe your annual fund gift purchased lab equipment. Perhaps your unrestricted support kept the lights on late one night in a lab, allowing a bright young student to imagine a smarter way to monitor drug interactions. Or treat liver disease. Or modify a medical device.

You did that.

Thank you.

KGI’s founding premise—to advance the notion that educational programs and research can bridge theory and practice, translating the potential of life science into tangible achievements—has given rise to countless discoveries and outcomes. That is a start we can be proud of.

If you’re a current KGI supporter, thank you. We are proud of our progress and grateful for how far this institution has come.

If you’re new to the KGI community, welcome. We’re about to do even more great things.

Thank you for helping the best and brightest minds—the minds of KGI students—answer the question: “How?”

Follow KGI and its students on social media:

KGI.edu/Facebook
KGI.edu/Twitter
KGI.edu/LinkedIn

You’re in time for the next stretch of this remarkable journey of scientific research and discovery.
We have students from all over the world who come to KGI to learn about the life sciences industry. At their cores, both the School of Applied Life Sciences and the School of Pharmacy provide our students with the tools necessary for dynamic careers.

In the past year, KGI has experienced major growth. With just over 500 graduate students enrolled, our focus has remained clear: to ensure our students learn how to navigate careers that may demand flexibility and adaptability. We do this by providing a curriculum that is innovative, relevant, and rigorous.

We offer programs in both our School of Applied Life Sciences and our School of Pharmacy that are designed to provide meaningful industry experience, networking opportunities, and translational, hands-on skills that allow for a seamless transition to industry and clinical practice.

As such, our full array of academic programs include: Master of Bioscience, Master of Engineering in Biopharmaceutical Processing, Postdoctoral Professional Master’s, Postbaccalaureate Premedical Certificate, PhD in Applied Life Sciences, CAST PhD, Doctor of Pharmacy, Certificate in Bioscience Management, Biocon Academy (Bangalore, India), and Summer Courses + Research Experiences.

KGI is a reflection of our founder’s vision to create an institution where talented and qualified individuals are trained to be future leaders in the bioscience industry. Today, nearly two decades later, KGI remains the only professional graduate school dedicated to education and research in the life sciences. Our commitment to scientific innovation capable of strengthening communities and improving lives has been a driving force in our growth and progress. As KGI continues to move forward, we will continue to cultivate an environment that reflects our core values: Entrepreneurial and Reflective; Ethical and Responsible; Collaborative and Independent; Interdisciplinary and Applied.

We have come a long way since our founding in 1997 and are excited to see what the future brings to our institution as a whole. We envision a future that honors KGI’s legacy while allowing meaningful progress.
Making an Impact in Communities
At KGI, we are passionate about ensuring our students have the necessary tools to be leaders in their fields, to feel confident and competent, to take on projects that are interdisciplinary, and, most important, to be poised to give back to their communities. By example, we teach our students that reciprocity is important and encourage them to participate in social and professional clubs committed to improving the lives of others. Our students and alumni are active in their communities, working to enhance the human experience and make a difference with the values they learned through their KGI education.

KGI Faculty and Students Mentor High School Students

A cadre of KGI faculty and students spent time helping local high school students learn more about science and possible careers in the field for the school’s Career Day. Initiated by Stephanie Leguizamon, MBS ’17, the visit to her alma mater, Esperanza High, was a chance to give back to her community. Each KGI representative gave three 30-minute presentations. Topics included stem cell research and genome editing, cancer research, and clinical and regulatory affairs: legal drug pushing and working with the FDA. The KGI group also stressed the importance of continuing education past high school.

Stephanie said she wanted to show high school students they are capable of achieving anything they want and that they can change the world with the power of their mind. She also wanted to introduce high school students to the amazing world of cellular and molecular biology, specifically stem cell research and gene editing. When Stephanie was in high school, she had no idea that type of research existed and wanted to open students’ eyes to this new opportunity.

Community events like these are vital to building the KGI community. For Stephanie, it was an info session at a local college where she first heard about KGI.

PhD Student Brings Science to Mexico and Colombia

KGI PhD student Paola Hernandez has been bringing science education to students in Mexico and Colombia as an instructor for Clubes de Ciencia (science clubs), a non-profit organization that brings a series of intensive and project-oriented science workshops aimed at getting high school and undergraduate students interested in pursuing a career in science.

Her involvement in Colombia is particularly important, as the country’s history has been turbulent. Hernandez explained that one of things she enjoyed most while working with younger students in Colombia was seeing how excited they were to participate in a workshop, which can be difficult to access. In some cases, the organization has received up to 1,000 applications for the 15 to 18 spots available in each class. Realizing not everyone has access to science-based education, the organization opts to forego major cities. Instead, they go to remote locations where these resources aren’t common; Bogota and Medellin are examples.

"KGI taught me how to write, network, and think beyond the traditional world of science. Now I’m communicating with other scientists to develop and run these workshops."

PhD Student Paola Hernandez MBS ’12
Being an instructor for Clubes de Ciencia has greatly impacted Hernandez’s life. Her involvement with students has allowed her to serve as a mentor, helping them with applications to scholarships and internships. She also helps students learn to network and to open their eyes to professional opportunities.

Hernandez noted that KGI has given her the tools to understand and put science, business, and debate in context. She gave credit to the PhD program, which has opened the doors to connect with other people throughout the globe.

“Whatever I do, I want to make a difference. You can make an impact right now with what you already know. Volunteering can be the key. Take opportunities when they come. You never know what will come your way and what will open your life to things you never considered. Also, be culturally sensitive, because that is the route to success.”

**Taking Health Education to the Underserved and Homeless**

To celebrate the Thanksgiving season by giving back to the local community, PharmD students offered free health education at a one-day event, Eat and Be Well, open to the underserved of San Bernardino County.

Second-year students (P-2s) took the lead in facilitating sessions on hypertension, diabetes (in both English and Spanish), and how to stop smoking. First-years (P-1s) also participated in the sessions and interacted with attendees.

The event proved to be an excellent way for P-1 and P-2s to share their knowledge, for the local community to learn from future healthcare providers, and for all to express gratitude for the gift and power of education.
Faculty Impact

Making an Impact Through Research
KGI is home to world-class faculty whose expertise in subjects such as bioengineering, applied molecular and cellular biology, bioscience business, pharmacology, bioprocessing, and gene therapy have led to real-world solutions and cutting-edge research aimed at improving the human condition.

Dedicated to KGI’s model of graduate education and interdisciplinary, translational research, many faculty have come to KGI from well-established academic positions and successful biotechnology companies, combining academic credentials with a keen awareness of the industry’s latest developments to bring new ideas and innovation into their classrooms and labs.

Whether they are looking at specific diseases, advancing methods for the targeting and delivery of drugs, emphasizing vaccines and prevention, or innovating in the area of pharmacology, KGI faculty are consistently and actively working to give back—on both a local and global scale.

Pharmacy Professor Works to Advance Research for Alzheimer’s Disease
Rachita Sumbria, PhD was awarded the 2015 New Investigator Research Grant from the Alzheimer’s Association. This competitive grant provides important funding to support her research on developing a brain penetrating TNF-alpha inhibitor (TNFI) for Alzheimer’s disease. Overall, Dr. Sumbria hopes this work will contribute to finding a cure for Alzheimer’s disease.

Specifically, Dr. Sumbria’s research will focus on getting a TNF-alpha inhibitor into the brain noninvasively via the molecular Trojan Horse technology (MTH), which was introduced to her during her postdoctoral training at UCLA, under the mentorship of Dr. William Pardridge. This MTH technology transports the TNFI into the brain, essentially acting as a ferry for the drug (e.g., TNFI) and allowing it to get past the BBB.

Dr. Sumbria carried out research on BBB-penetrating TNFIs as a postdoc at UCLA. While there she focused on studying the therapeutic potential of a BBB-penetrating TNFI in mouse models of Parkinson’s disease and ischemic stroke. In an attempt to move this research further, Dr. Sumbria stated the funds received will be used to study the effect of this BBB-penetrating TNFI in Alzheimer’s disease and determine if therapeutic benefits can be achieved.

“Hopefully this research will underscore the importance of the blood-brain barrier as a bottleneck to brain drug delivery, especially for Alzheimer’s. I’m excited to continue this work at KGI.”

Dr. Rachita Sumbria

Helping Farmers Across the World with Low-Cost Plant-Based Vaccines

making life easier for farmers in Botswana is important to Larry Grill, PhD, dean of research at KGI. There are approximately 500,000,000 smallholder farmers in the developing countries whose output feed approximately 2 billion people. Due to the often harsh conditions faced when smallholder farmers fail, people starve. With livestock playing such a vital role in farm success, it is important that the animals remain healthy. Inexpensive vaccines are critical for livestock farmers to create herd
immunity and stop the spread of damaging diseases such as Lumpy Skin Disease, Rift Valley Fever, and East Coast Fever. Lumpy Skin Disease causes a chronic debility in cattle that leads to serious nutritional and economic losses and has decimated cattle in Botswana. Rift Valley Fever causes a chronic debility in cattle and other animals, and East Coast Fever kills about 1.2 million cattle per year in Africa. The team is also working on low-cost vaccines for rabies and anthrax.

Understanding the need for a cost-effective solution, Dr. Grill has been in collaboration with the University of Botswana, the Ferre/Marquet Vaccine Research Center at Pitzer College, Botswana Vaccine Institute, Kenya’s International Livestock Research Institute, and the Grill and Martchenko labs at KGI, to develop low-cost vaccines for animal illnesses previously mentioned. The first plant-produced vaccine for lumpy skin disease is currently in clinical trials. In time, it is hoped the vaccines will be produced in Botswana using plant-produced vaccines and large-scale growing with LED Lighting.

Dr. Grill is also one of two founders who started Large Scale Biology Corporation (LSBC) a publicly held company that made therapeutic drugs, pharmaceuticals, and vaccines using a unique plant viral gene-expression technology. Grill has published over 25 scientific papers and is an inventor on more than 30 issued U.S. and international patents. He is the Dean of Research at KGI and also teaches at the graduate and undergraduate (through the Keck Science Department of The Claremont Colleges) levels.

Pharmacy Professors Improving Community Pharmacy Immunization Programs KGI School of Pharmacy professors Sally Huston and David Ha are part of a team that has received a research grant from the Merck Investigator Studies Program for their work in sustainable enhancements for community pharmacy immunization programs.

Through this funding, Huston and Ha will investigate methods of enhancing the delivery of the pneumococcal disease and herpes zoster (shingles) vaccines in community pharmacies through immunization-focused education and expert feedback, using a randomized intervention-control design.

Overall, the purpose of training is to ensure each participating community pharmacy has the practical tools needed to identify patients who could benefit from the pneumococcal or shingles vaccines and to provide useful and meaningful information to them.

Associate Professor of Administrative Sciences, Huston explained the importance of the study: “Many people still fail to take advantage of immunizations against pneumococcal disease and herpes zoster [shingles]. Pneumococcal disease can result in significant morbidity and, potentially, early death. Adults aged 60 years and older who have had chicken pox are at high risk of developing shingles—a painful disease that can last a year or longer. Pharmacists are among the most widely accessible healthcare providers. With pharmacists now eligible to administer immunizations, they can help people overcome many of the barriers they face in obtaining this vital protection.”

While the study targets community pharmacy interactions with patients, it is designed to be larger in scope. The team hopes not only to increase the current level of pharmacy-based immunization delivery, but also to foster practice change to sustain the intervention effect.

Discussing the project, Assistant Professor of Clinical Sciences Ha said: “As a practicing clinical faculty in infectious disease, my experience with vaccination is the result of lack of vaccination. One of the most frustrating things to witness is patients being hospitalized and sometimes succumbing to vaccine-preventable illnesses, and this is not an uncommon event. This is why I am interested in increasing vaccination rates as much as possible, especially in an area of significant healthcare need, i.e., the Inland Empire [San Bernardino/Riverside counties] as well as Los Angeles County.”

Dr. Sally Huston is the California sub-contract principle investigator and project coordinator. Dr. David Ha is the clinical coordinator for California. The overall principle investigator is Salisa Westrick, PhD, and the Alabama coordinator is Dr. Kimberly Garza.
Teaching Impact

“We are free to innovate. We have ultimate flexibility to experiment and to invent ourselves.”

Henry E. Riggs, KGI Founding President

Making an Impact In Learning
KGI prides itself in providing an education that is relevant, innovative, and challenging. Every student who walks through the doors is given the opportunity to immerse themselves in industry-specific projects, meet key industry professionals, and continually build on a skill set that includes networking, project management, and collaboration. By the time students leave KGI, they are poised to become leaders in their fields and to contribute to their industry, with reciprocity as a core value.

KGI’s innovative teaching methods, which include the flipped classroom approach and experiential learning, are fundamental to our students’ success. The efforts to turn the dynamics of learning from linear to immersive are key to ensuring true learning takes place. Whether students work on creating a new medical device or are engrossed in a TMP, learning is never one-sided and, instead, is collaborative, multifaceted, and interactive.

Collaborative Learning: Team Master’s Project
The Team Master’s Project (TMP) is the capstone activity for students in the Master of Bioscience (MBS) and the Postdoctoral Professional Master of Bioscience Management (PPM) degree programs at KGI. In accordance with KGI’s mission of translating the potential of the life sciences into practice, the TMP offers a rigorous and experiential learning opportunity that immerses students in the type of work many will pursue after graduation. TMPs are supported by interdisciplinary teams of three to six students who work with sponsoring companies to address real-world company objectives.

Replacing the traditional master’s thesis work found in standard programs, these projects give students the opportunity to apply their marketing, business, financial, and science training to state-of-the-art corporate challenges. Importantly, our teams are advised by both KGI faculty and expert industrial liaisons to assure that academic rigor is paired with pragmatic focus. Our typical TMP team is composed of MBS, PPM, and senior undergraduate students from The Claremont Colleges (Harvey Mudd, Pitzer, Claremont McKenna, and Scripps), resulting in a rich and diverse set of skills, backgrounds, and expertise.

The Science of Learning
Stephen M. Kosslyn is the founding dean of the Minerva Schools at KGI. There, he leads the School of Arts and Sciences and has served an integral role in defining Minerva’s pedagogic philosophy. Dr. Kosslyn came to Minerva from Stanford University, where he was director of the Center for Advanced Study in Behavioral Sciences, the world’s preeminent institution in the field. Prior to Stanford, Dr. Kosslyn spent 30 years at Harvard University in a variety of positions, including dean of social sciences. His most recent Top Brain, Bottom Brain book (with G.W. Miller) posits a new theory of cognitive modes—different thinking styles—that affect how we each approach the world and our interactions with others. It is this commitment to understanding and adapting to the changing dynamics of learning that distinguishes both KGI and Minerva from more traditional models.

“Lectures are a great way to teach but a terrible way to learn.”

Dr. Stephen Kosslyn, Founding Dean Minerva Schools at KGI
Kosslyn on Learning: Top Ten Principles

1. **Depth of processing.** The mere act of “thinking it through” enhances subsequent memory. The more “deeply” one is forced to analyze or consider information, the more likely it is to be recalled.

2. **Breadth of processing.** Making connections to information already stored in memory enhances learning. Focusing on how information relates at a deep structural level to other information enhances memory.

3. **Chunking.** People can hold in working memory 3 or 4 “chunks” (organized units), but each of these chunks can in turn contain 3 or 4 chunks.

4. **Deliberate practice.** Provide feedback, and lead the learner to pay attention to mistakes and use them to correct performance.

5. **Cumulative information.** Ensure that foundational material is presented first, providing a “backbone” for learning additional information. There is no “paradox of the expert.”

6. **Appropriate examples.** Abstract concepts can only be learned in concrete contexts.

7. **Principles, not rote.** Students must understand the principles that underlie examples.

8. **Staggered practice.** Vary the time and context of learning. “Far transfer” is best accomplished when material is associated with very different contexts.

9. **Emotion.** Information associated with strong emotion generally is learned better than information that has neutral valence.

10. **Generation effect.** Simply having to recall information can improve memory; hence, explaining or answering tests enhances learning.

Experiential Learning: School of Pharmacy

KGI’s School of Pharmacy (SOP) is dedicated to the education of innovative pharmacists who will serve the needs of individual patients, the healthcare system, and the bioscience industry. Our program emphasizes interprofessional collaboration; systematic problem solving; the safe, efficient, and ethical use of technology and biotechnology; and personalized patient care. Fundamental to SOP is the concept that students must “do” to learn. As such, embedded in the Doctor of Pharmacy (PharmD) program are several Experiential Learning requirements and opportunities that take students out of the traditional classroom and into real-life practice settings.

Knowledge to Nourish Your Wellness (KNOW) Program

This spring semester, PharmD students were paired with a volunteer resident of Mt. San Antonio Gardens (Life Care community) and Pilgrim Place (senior community in Claremont, CA). They met every other week to establish a partnership focused on the resident’s needs. Under the supervision of KGI pharmacist faculty, student pharmacists provided ongoing services to Mt. San Antonio Gardens and Pilgrim Place residents to assure their medication regimen was safe and effective. They offered education on immunizations, general wellness, and proper medication storage and disposal. Students also produced a medication action plan for the residents that included: list of medications, indication, dosing schedule, monitoring parameters, side effects, and questions to the care provider.
Making an Impact In Industry
The biotechnology and biopharmaceutical industries rely on a rich pipeline of high-caliber scientists and engineers who can become part of the leadership team at every level of the organization. KGI understands that industry-based partnerships are as important as they have ever been, allowing for a model of reciprocity between student, school, and industry. It is this give-and-take approach that has allowed so many KGI students and alumni to enter into the workforce with relevant, real-world experience and meaningful network connections.

Amgen is one of KGI’s important industry connections. We have several alumni and board members who work there, including involvement in summer internships and Team Master's Projects (TMP). One of KGI’s research centers, the Amgen Bioprocessing Center (ABC), was created in 2004 with a generous gift from the Amgen Foundation. Building on the idea that education and industry can function in tandem, the ABC was created to bring together infrastructure, resources, and experts from industry and academia and to bridge the gap between traditional degree programs in life sciences and engineering.

Today, ABC is a transformative education ecosystem with interconnected teaching, training, and research programs in full partnership with the biopharmaceutical industry, in large measure thanks to the tremendous philanthropy of Amgen. The generous gift from the Amgen Foundation has been felt across KGI by students, faculty, and alumni alike. Since the gift’s inception, the number of graduates in bioprocessing has grown rapidly.

Amgen and KGI: An Overview
Summer Internships: 35 (2013 through 2016)
Team Masters Projects (TMP’s): 7
• 2001 (2)
• 2006 (2)
• 2007 (1)*
• 2014 (2)
*one of the 2006 TMP’s was a 2 year-project
Alumni Employees (Past & Present): 68
• Amgen (51)
• Health IQ (8)
• LEK Consulting (9)
Board of Trustees Affiliations: 4
• Robert Baltera, Jr.
• Frank Biondi, Jr.
• Dennis Fenton
• Martha Vincent
• Madhu Balachandran

KGI Alumni Titles at Amgen:
Director Research Operations
Director Strategic Planning & Operations
Global Operations Senior Manager
Preclinical Senior Manager
Senior Engineer
Licensing Senior Manager
Regulatory Affairs Manager
Senior Associate
Senior Associate Quality Control
Business Analysis & Information Senior Manager
Supply Chain Senior Manager
Alliance Management Senior Manager
Regulatory Affairs Manager
Senior Specialist Quality Systems
Strategic Resource Planning Manager
Strategic Planning & Operations Manager
Business Analyst
Risk Management Manager
Supply Chain Manager
Supply Chain Manager
Director Regulatory Affairs
CDM Systems Manager
GRAAS Operations Manager
Process Engineer/Scientist II
Supply Chain Manager
Clinical Application & Analytical Services Manager
Business Analysis and Information Manager
Supply Chain Manager
Business Analysis & Information Senior Manager

“A KGI education is unique. No other institution provides the cross functional executive training that is tailored exclusively to the bioscience industry.”

Jean Doble ‘02
“It is critical to continually learn, and translate innovation into applications that improve human life. The education I received at KGI prepared me for this fast-paced and ever-changing environment. At KGI, I learned a way of thinking—a scientific way of thinking that I use in my everyday life.”

Marc Doble ’02

Watita Tamavimok Explains How She Bridged the Gap Between KGI and Industry

As part of the KGI curriculum, first-year MBS students are required to find an internship position within industry. This is where Watita began her connection with Amgen. Her summer internship at Amgen was memorable. Watita praised her Amgen manager for the high level of communication and networking and her manager’s support in exploring various departments at Amgen. She was able to identify how valuable mentorships can be and appreciated the opportunity to speak with senior leaders at Amgen. In October of 2015, before graduating from KGI, Watita was hired as a full-time employee at Amgen. She began her new career with the Amgen family in June 2016.

Why did you want to work for Amgen?
Amgen allows their employees to explore their interests while helping them to excel and grow as professionals within the company. The culture is filled with passionate and intelligent people who are happy to help young professionals with their careers.

What was the Amgen interview process like?
I got an internship in the R&D department by going through Amgen’s career portal. During my internship, I networked with Amgen employees (including KGI alums) in many departments. I expressed my interest in the Operations Department during my internship and I got a verbal job offer in October.

What is your new title at Amgen, and what will you be working on?
My new title is Senior Associate. I work in project management and clinical supply chain. My role entails a lot of collaboration with other professionals regarding the efficiency of transporting drugs for clinical trials.

Why did you decide to attend KGI?
After working for a few years after college, I realized that having knowledge in business is very important. KGI allowed me to still pursue my passion in science and learn the business aspects that will help me in the science field.

What was your major at KGI?
Pharmaceutical Discovery and Development.
Sergio A. Sanchez Manchinelly ‘11 exemplifies many of the attributes KGI strives to instill in each student: drive, forward thinking, capability, and adaptability. His KGI journey began in 2010 when he started the Postdoctoral Professional Master’s (PPM) program in bioscience management. After graduating in 2011, Sergio left KGI with many valuable skills and experiences that led to his current role as director of continuous improvement programs at Beckman Coulter. He noted the Team Master’s Project (TMP) with Tecan as one of the more beneficial experiences at KGI.

Sergio’s current role has led to meaningful work across the globe. He is launching a consulting service for laboratories in the EU and Asia Pacific that is modeled after the service he already created in the U.S. While this work is multi-faceted and can be rigorous, Sergio finds it fulfilling. He says that often his different consulting projects have called upon the skills he learned at KGI. These projects include: market entry, product strategy, product lifecycle management, competitive intelligence, business strategy development, strategy deployment, operational improvements, and laboratory workflow improvements.

Do you feel KGI helped you acquire your current role?
Yes, most definitely. It introduced me to the world of operations management and continuous improvement, which is central to my role today.

What were your most memorable moments at KGI?
They were all related to the senior industry people that I met. I met former Amgen CEO, Dennis Fenton, having the opportunity to build a relationship with Dennis over time was extremely encouraging and inspirational. He served as a reference for me, provided suggestions for jobs at biotech companies where he was advising, and provided solid career advice during the personal conversations we held. I was very grateful for this advice and help.

Have you stayed in contact with peers and/or faculty from KGI?
Yes, this is the network of peers I most treasure.

What is the most important skill, lesson, and/or knowledge you gained through KGI?
There are so many things. I will call out a few: how to network and build mutually benefitting relationships, all the different areas of industry that I could take my career (not just R&D), the importance of people management, and team engagement for successful projects.

What drew you to KGI?
The network of industry professionals available to students was the main reason why I decided to come to KGI. As I tried to transition out of academia, I knew I could not build a network as strong and deep on my own as I could through KGI.

“The experience, exposure, networking opportunities, and knowledge I gained while at KGI catapulted my skills and post-graduate marketability to a whole new level.”

Sergio Sanchez ‘11
What do you see as KGI’s major strengths?
KGI is a launching pad from academia to industry. It is a safe environment in which to learn how to perform as a professional and understand industry expectations.

Was KGI supportive and effective in terms of advancing your professional goals?
Aside from the “soft” network exposure/access, the resume reviews, career days, and recruitment sessions with visiting company HR reps were very helpful. I was able to learn what worked and what didn’t directly from the experts.

Where do you see the international community in terms of future industry developments?
While every country has its nuances and needs, the core issues, challenges, and opportunities are really the same across the world. The core issues are around how to drive to better health outcomes faster, cheaper, and more effectively than we do today. How to improve the patient and healthcare provider experience. Those that are able to address this global opportunity are creating value that can be captured as financial rewards and in many instances transferred across countries. Furthermore, there are so many capable professionals across the world working on these same issues that answers to global problems are coming from a variety of places, not just the usual suspects. Tapping into those resources and human capital in a global, connected world is the new competitive advantage.

Number of Alumni: 1100
Industries Employing Alumni:
Biotechnology
Computer Software
Defense and Space
Education Management
Higher Education
Hospital and Health Care
Information Technology and Services
Investment Banking
Law Practice
Legal Services
Management Consulting
Market Research
Marketing and Advertising
Medical Devices
Medical Practice
Pharmaceuticals

Countries Employing Alumni:
Canada
China
India
Indonesia
Japan
Switzerland
United States
United Kingdom
1. Second-year PharmD students participated in a KGI Shark Tank event and were asked to develop practical application ideas as core informatics concepts were taught. The event was held on December 8, 2015, and industry leaders served as judges (“sharks”). The event was part of the PHAR 430 Introduction to Pharmacy Informatics class. Pictured is the 1st place team: “6 Essential Vitamins.”

2. Commencement 2016 was held on May 14th and was a keystone moment for all graduates.

3. On Saturday, March 12, 2015, the California Pharmacists Association (CPhA) held its second annual San Gabriel Valley Regional Legislative Days event at KGI. The event served as a forum to discuss important legislation and pharmacy issues and brought together local business owners, legislators, pharmacists, consultants, technicians, and student pharmacists. Local Assemblymember Freddie Rodriguez (D-Pomona) discussed the importance of grassroots advocacy efforts.

4. Transcutaneous electrical stimulation paired with 3D printed arm cast. Students from the ALS 425: Device and Diagnostic Product Development class showcased the devices they designed and built during spring semester. Pictured is BONES, a transcutaneous electrical stimulation paired with 3D-printed arm cast.

5. School of Pharmacy students celebrate the completion of a successful term at the KGI 2015 End of Year BBQ.

6. KGI students show support for their community by taking part in the Relay for Life fundraising walk.

7. Kiran Mazumdar-Shaw, pioneer of the biotechnology industry in India and the founder of the country’s leading biotechnology enterprise, Biocon, visited KGI this past spring and spent the day meeting with students, faculty, and senior leadership.

8. On February 26, KGI hosted “Rare Disease Day”: Advances in Rare Disease Therapy. One of the highlights included special guest speaker, Cindy Abbott, who shared her remarkable story of climbing Mount Everest and racing in the 1,000 mile Iditarod Trail Sled Dog Race in Alaska, all while dealing with the complications of a rare disease.

9. The Team Master’s Project (TMP) winners for the Collaborative Excellence Award-Technical TMP for the 2015-16 academic school year worked rigorously on a project for Gilead.

10. KGI Students posed for group photo in celebration of the end of the 2015-2016 academic year.
Thank you!

Donor Recognition

Keck Graduate Institute is exploding at the seams. Exploding with new ideas. With discoveries. With translational scientific applications. With successful, outside-of-the-box research. And because of your support, KGI students continue to succeed. They continue inventing. Discovering. Solving. Curing. Creating. Translating. Applying. The 2015-2016 saw some of the largest, most transformational gifts of our institution’s history. KGI supporters are forward thinkers. Because of you, KGI is succeeding and on the verge of even more.

Founders Circle ($1M+)
Dennis M. and Linda Fenton

Chair’s Circle ($500k-$999,999k)
Anonymous

President’s Circle ($250k-$499k)
The Ralph M. Parsons Foundation
Henry (Hank) E. Riggs* and Gayle Riggs

Dean’s Circle ($100k-$249k)
Genentech Foundation

Leadership Circle ($50k - $99,999k)
Alzheimer’s Association
James M. Cregg
The Estate of H. Victor Hansen

Patron’s Circle ($25k - $49,999k)
The American Society For Cell Biology
Madhavan and Kalyani Balanchandran
Frank J. Biondi, Jr. and Carol O. Biondi
Consulate General of Mexico in Los Angeles
Ross and Deborah Grossman
Juntos Podemos
Alan F. Rothfeld

Steward’s Circle ($10k-$24,999k)
Karen Bernstein and David Flores
Daniel M. and Annette Bradbury
Celltheon Corporation
Jamie Dananberg
Stephen Eck
EMD Millipore
Francois Ferre and Magda Marquet
Gilead Sciences, Inc.
Amita Goel
Ray and Mary Ingwersen Estate
The Kenneth T. & Eileen L. Norris Foundation
A. Jeereddi Prasad and Sudathi Jeereddi
Sheldon M. Schuster and Susan Wessler
Armen Simonian
Alex Suh
Murli and Mona Tolaney
Walgreens
James F. and Denise Widergren

*Deceased

Donors Making a Difference:
Dennis and Linda Fenton

The support we receive from donors is vital to KGI’s success. While we are proud of our growing network, our history has depended on the generosity of a small, dependable community of supporters dedicated to advancing KGI’s reach and influence.

Among KGI’s most generous donors are Dennis and Linda Fenton, who pledged $3 million to KGI’s Amgen Bioprocessing Center (ABC). The donation, officially the Fenton Bioprocessing Leadership (FBL) gift, will be used to stimulate innovation in bioprocessing education at KGI.

The gift’s purpose is to drive the growth and national prominence of the ABC through the matriculation of highly qualified students who major in bioprocessing technology at both the master’s and PhD levels. Gift funds will be used to develop the FBL Center for Research & Training and to transform and expand the existing ABC into a state-of-the-art facility for training the next generation of scientists. Funds may also be allocated to attract and retain distinguished faculty, as well as purchase necessary equipment and supplies to ensure that bioprocessing continues to be a growing and major focus at KGI.

Additionally, the FBL gift will nurture growth of new areas at KGI, including short-term visiting fellows and scholars (from FDA, industry, and overseas) and short-term postdoctoral researchers working on targeted strategic areas.

The Fentons’ support of KGI and its mission to provide students with a world-class education is not new. In 2011, the Fentons pledged $500,000 to KGI’s Annual Fund, and in 2005 they endowed the George B. and Joy Rathmann Professorship.

Dennis M. Fenton is a former executive vice president at Amgen and currently sits on a number of public and private corporate boards, as well as being a vice chair of the KGI Board of Trustees. He and his wife, Linda, have focused their philanthropic energies on scientific education and childhood literacy.
**AMBASSADOR’S CIRCLE ($5k-$9,999k)**
The Allergan Foundation  
Larry Grill  
Barbara A. Hamkalo  
Judy Heyboer  
Pfizer, Inc.  
Ian Phillips and Blanca Aguiar  
Regeneron Pharmaceuticals, Inc.

**FELLOW’S CIRCLE ($1k-$4,999k)**
Aetna Foundation, Inc.  
Arnold and Mabel Beckman Foundation  
CVS Health Foundation  
Joann P. and Myles R. DiGennaro  
Robert and Bette Finnigan  
Bob Fuladi  
Sean R. Gallagher  
IBM International Foundation  
Jim Osbourne, Jr. and Arzu Osborne  
Bernard E. Kury and Lisa Wagner  
Gregg A. Lapointe  
Claudia Lee ’11  
Thomas Lobl  
Rodney S. Markin  
Barbara J. and Stephen Mazur  
Alan Mendelson  
Yolanda T. Moses and James Bawek  
Pfizer Foundation  
MK Raheja  
William J. Rich  
Rite Aid Corporation  
Ravneesh Sachdev ’06 and Asavari Joshi-Sachdev  
Maxine L. Savitz  
Roslyn Schneider  
Jack and Jil Stark  
Lydia Villa-Komaroff and Anthony Komaroff  
John P. Wareham  
Kathy D. Webster  
Elizabeth (Buff) Wright  
Lilian S. Wu and Ralph Gomory

**ASSOCIATE’S CIRCLE ($500 - $999)**
Amgen Foundation  
Susan Bain  
The Baltimore Family Fund  
California Technology Ventures  
Alexander M. Capron  
Steven W. Casper  
Minh-Hang Dang  
Donald and Huong DiRocco P’09  
Jean Falzone Doble ’02 and Marc Doble ’02  
Derick Han  
Kevin Harley  
Dennis Huang  
Hutch Humphreys  
Michael R. Jones  
Talia Puzantian  
William and Daisy Spurgin P’08  
Mercedes Talley  
Thomas L. and Lois Yunghans P’10

**FRIEND’S CIRCLE ($100-$499)**
Suhail Abdullah  
Naomi Arana ’08 and Isaac Middendorf ’08  
Shannon Braun  
Melissa Brown

**Since the Beginning**
“My involvement at KGI goes back to the beginning,” says Robert E. Curry, Chair of the Board of Trustees at Keck Graduate Institute. “I remember early conversations with Hank Riggs about his idea for a game-changing graduate institution that would teach more than just theory—it would educate students and encourage hands-on application of the life sciences. That was the best idea I had heard in quite some time. We must have been right. Look at KGI now and how far it has come.”

KGI owes a good deal of “how far it has come” to the dedication and leadership of Dr. Robert Curry. A former professor at the University of Delaware, Dr. Curry earned his PhD in chemistry from Purdue University where he was a Smith Kline Fellow. He earned his BS in physics from the University of Illinois.

A passionate advocate for KGI and its students, Dr. Curry has supported the institution since 1995, two years before its official founding, by committing his time, resources, and expertise. KGI has benefited from his leadership as board chair for the past 13 years, and we are grateful for his continued support and enthusiasm as we embark on the next exciting chapter in KGI’s history.

“KGI is extremely grateful for and appreciative of the continued generosity of Dennis and Linda Fenton. This gift will encourage advancement of these and future programs for the benefit of the KGI community and the bioprocessing industry.”

President Sheldon M. Schuster
Helping Donors Support Discovery

“KGI graduates help the sick and injured, and solve real-world problems through science, technology, and industry. KGI supporters aren’t just providing lab equipment and research funds—they are promoting discovery.”

Molly Chestnut, Senior Director, Advancement and Giving

Working with passionate donors is my passion. At KGI, there is no limit to the good that can be accomplished. There is no ceiling on what can be researched, invented, or learned. The sky is the limit here.

To those supporters who have helped KGI become what it is today, thank you. Your belief in our faculty, students, and research has positioned this institution for an exciting future. Amazing things can happen when philanthropy and discovery come together. I look forward to working with you and becoming a part of the community here.”

Molly Chestnut joined the KGI family as senior director of advancement, effective July 22, 2016. Molly brings with her an impressive list of experience and skills; including approximately 15 years of combined experience in higher education fundraising, campaign strategy, board cultivation, constituent engagement, marketing/communications, and stewardship. She has worked at Stanford Law School; University of California, Riverside; and, most recently, Scripps College.

To learn more about how you can help KGI students, faculty, and graduates make discoveries and improve lives, contact Molly Chestnut, senior director of advancement and giving at molly_chestnut@kgi.edu or 909.607.0113

Corporations and foundations annually support KGI with gifts for investment in special programs, employee matching funds, fellowships and endowments, or gifts in kind. The following supporters contributed to KGI during 2015-2016:

Aetna Foundation, Inc.
The Allergan Foundation
American Society for Cell Biology
Amgen, Inc.
Alzheimer’s Association
Applikon Biotechnology
Arnold and Mabel Beckman Foundation
Burroughs Wellcome Fund
California Technology Ventures
Celltheon Corporation
Consulate General of Mexico in Los Angeles
CVS Healthcare Foundation
Genentech Foundation
Gilead Sciences, Inc.
Gourmet Gourmet Catering
Healthware, Inc.
IBM International Foundation
Over 1100 Alumni and Counting

“I am continually inspired by the talented KGI students and faculty working to improve the world through scientific research. I am proud of our alumni and I am motivated by their passion, dedication, and commitment.”

Christa Oudshoorn-Hobo, Alumni Engagement Manager

In 2015-2016, KGI re-dedicated itself to bringing the 1100+ member KGI alumni community together. The office of Alumni Engagement helped to connect alumni in meaningful ways including lifelong learning webinars, quarterly virtual town hall meetings and regional networking events with industry leaders in Westlake Village, San Diego, New York, New Jersey, San Francisco, Orange County, and San Mateo. Building connections is essential to alumni success. KGI is here to promote and support our alumni.”

Christa Oudshoorn-Hobo joined KGI on November 30, 2015, after working at the Department of State for 11 years. As a protocol and programs specialist, she established a Youth Advisory Board designed both to engage students and gain vital feedback from a youth perspective. She helped students connect with a variety of industry leaders, often leading to professional opportunities. In addition, she has served on many boards as a volunteer and fundraiser.

To learn more about the Alumni Engagement program or if you are interested in volunteering, contact Christa Oudshoorn-Hobo, alumni engagement manager, at christa_hobo@kgi.edu.

The Team Master’s Project (TMP) provides an opportunity for KGI students to tackle real-life challenges in partnership with leading life sciences companies. Corporate partners address objectives without having to invest in additional permanent assets. At the same time, TMP’s provide students with invaluable industry experience, insights, and connections. That is progress through educational partnership. KGI and its students are grateful to our 2015-2016 Team Master’s Project sponsors:

Abbott Medical Optics
BioMarin
Boehringer Ingelheim
BD
Bristol-Myers Squibb
City of Hope
Coherus
DEXCOM
DuPont Pioneer
Eli Lilly
Gilead
Hologic
Pioneer Hi-Bred International, Inc.
Pfizer
Takeda
Technip
Thermo Fisher Scientific, Inc.
WuXi AppTec

Note: Every effort was made to correctly list all donor information. However, if you notice an error in how your gift was recognized, please contact the KGI Advancement team at 909.607.0113. Your record will be updated for future recognition.

Donor Recognition

Juntos Podemos
The Kenneth T. & Eileen L. Norris Foundation
Pfizer, Inc.
Queen of the Valley Hospital Pharmacy
The Ralph M. Parsons Foundation
Regeneron Pharmaceuticals, Inc.
Rite Aid Corporation
Sartorius Stedium North America, Inc.
Walgreens

New to KGI: Christa Oudshoorn-Hobo, Alumni Engagement Manager

“I am continually inspired by the talented KGI students and faculty working to improve the world through scientific research. I am proud of our alumni and I am motivated by their passion, dedication, and commitment.”

Christa Oudshoorn-Hobo, Alumni Engagement Manager
Senior Administration

Sheldon M. Schuster
President

Diana Bartlett
Associate Vice President
Director of Corporate Partnerships

Steve Casper
Dean of the School of Applied Life Sciences, Henry E. Riggs Professor of Management

Kelly Esperias
Assistant Vice President of Advancement and Chief Marketing Officer

Larry Grill
Dean of Research
Research Professor

Michael Jones
Vice President of Finance and Operations

Stephen M. Kosslyn
Founding Dean, School of Arts and Sciences, Minerva Schools at KGI

Cheryl Merritt
Director of Human Resources

E. Sofia Toro
Dean of Student Engagement and Enrollment Services

Kathy Webster
Founding Dean, School of Pharmacy
Professor of Pharmacy

Elizabeth Wright
Associate Vice President and Secretary to the Board of Trustees

Board Of Trustees

Robert E. Curry (Chair)
Partner, Latterell Venture Partners

Madhavan Balachandran
Executive Vice President, Operations, Amgen

Robert F. Baltera, Jr.
Former Chief Executive Officer, Laguna Pharmaceuticals

Karen Bernstein
Co-Founder and Chairman, BioCentury Publications

Frank J. Biondi, Jr.
Senior Managing Director, WaterView Advisors

Daniel M. Bradbury
Managing Member, BioBrit LLC

Jamie Dananberg
Chief Medical Officer, Unity Biotechnology

Joann P. DiGennaro
President, Center for Excellence in Education

Stephen Eck
Vice President, Global Head of Medical Oncology Services, Astellas Pharma Global Development

Dennis M. Fenton
Fenton & Associates LLC

François Ferré
Co-Chairman, AltheaDx

Ross Grossman
Former Vice President, Human Resources, Regeneron Pharmaceuticals, Inc.

Gregg A. Lapointe
Chief Executive Officer, Cerium Pharmaceuticals

Rodney S. Markin
Associate Vice Chancellor for Business Development & Chief Technology Officer University of Nebraska Medical Center

Barbara J. Mazur
Vice President, Technology Acquisition Strategy, DuPont Pioneer

Yolanda T. Moses
Associate Vice Chancellor for Diversity, Excellence and Equity, University of California, Riverside

Dr. Jeereddi Prasad
President, ProMed Health Care Administrators

Arthur D. Riggs
Director Emeritus and Chair, Diabetes Research, Beckman Research Institute of the City of Hope

José Ignacio Santos
Professor, Experimental Medicine Unit, School of Medicine, National Autonomous University of Mexico

Maxine Savitz
Vice President, National Academy of Engineering; Former General Manager Technology Partnerships, Honeywell, Inc.

Sheldon M. Schuster
President, Keck Graduate Institute

Regan Shea
Senior Vice President, Chemical and Biologics Operations, Gilead Sciences

Alexander B. Suh
Founding Managing Director, California Technology Ventures LLC
Murli Tolaney  
Chairman Emeritus, MWH Global, Inc.

Lydia Villa-Komaroff  
Board Member and former CEO and CSO, Cytonome

James F. Widergren  
CEO and President, Corgenix/ORGENTEC

Lilian S. Wu  
Program Executive, IBM Global University Programs

**Trustees Emeriti**

Bonnie Anderson  
CEO and President, Veracyte, Inc.

John Baldeschwieler  
Professor Emeritus, California Institute of Technology

Judith A. Heyboer  
Human Resources Consultant; Former Senior VP of Human Resources Genentech, Inc.

Alice S. Huang  
Senior Faculty Associate in Biology and Biological Engineering, California Institute of Technology

Howard B. Keck, Jr.  
President, Brighton Distributing Co.

Bernard E. Kury  
Former Vice President and General Counsel, Guidant Corporation

John D. Leland  
Retired Founding Partner, RCM Capital Management

Richard L. McConnell  
Former President, Pioneer DuPont

Clifford A. Miller  
Chairman, The Clifford Group

Harlyne J. Norris  
Trustee, Kenneth T. and Eileen L. Norris Foundation

Stanford N. Phelps  
Chairman, S. N. Phelps & Co.

William H. Rastetter  
Chairman Board of Directors, Illumina, Inc.

Louis T. Rosso  
Chairman Emeritus, Beckman Coulter Inc.

Jack L. Stark  
President Emeritus, Claremont McKenna College

Robert E. Tranquada  
Emeritus Professor of Medicine and Public Policy, University of Southern California

Richmond Wolf  
Partner, Capital World Investors

**Advisory Council**

Todd G. Abraham
David Adelman
Randy Berholtz
Amy K. Butler
Linda Castle
Doane Chilcoat
Raymond W. Cohen
Stephen G. Daggett
Darrell Drennan
Dennis O. Driver
David Flores
Weaver H. Gaines
Sean R. Gallagher
Chris Garabedian
Omar Gaya
Paul Grint
Kenneth Gruys
Kevin Harley
Allan Harris
Dennis Huang
Hutch Humphreys
Donald Jones
Thomas G. Klopack
John Lister
Kenneth James Livak
Thomas Lobl
Brenda Mann
Chris Meda
Alan M. Mendelson
Carol A. Nacy
Anthony Page
Dana Pizzuti
MK Raheja
Liam Ratcliffe
Chris Rhodes
William Rich
J. David Rozzell
George M. Savage
Roslyn F. Schneider
Geoffrey Bryant Schwartz
Robert Tenerowicz
Gino Van Heeke
Amgen Bioprocessing Center
Advisory Board

Daniel Abramzon, MBS ’07
Ashraf Amanullah, PhD
Vincent Anicetti, MS
John Aunins, PhD
Francis Bach
Robert Baffi, PhD
Joquim Cabral, PhD
Jon Coffman, PhD
Tom Cortopassi
Larry Couture, PhD
Dennis Fenton, PhD
Tom Fletcher, MBA
Nuno Fontes, PhD
Robert Garrahy
Amita Goel, MS
Sam Guhan, PhD
Robert Kiss, PhD
Brian Lee, PhD
Rick Lit
Gargi Maheshwari, PhD
Bill Rich, MS
Vinod Saxena, MS, MBA
Chris Schilling, PhD
Abhinav Shukla, PhD
Tom Smart, MBA
Weichang Zhou, PhD

Center For Rare Disease Therapies
Advisory Board

Blanca Aguiar, MD
Daniel Bradbury, BPharm, DMS
Jonathan D. But, PhD
Tim Coté, MD, MPH
Robert Curry, PhD
Daniel Darvish, MD
Diane Dorman
Dennis M. Fenton, PhD
Chris Garabedian
Steven Groft, PharmD
Richard Haas, MD
Marlene Hoffner, CEO, MD, MPH
Peter Barton Hutt, JD
Greg Lapointe, MBA
Ian Phillips, PhD, Dsc
Peter Saltonstall, PhD
Sheldon M. Schuster, PhD
Barbara Wuebels, RN, MS

School of Pharmacy
Practitioner Network Council

Gregory Collins, PharmD
Jennifer Floyd, PharmD, BCPS
Teresa Hodgkins, PharmD, BCACP
Vinson C. Lee, PharmD, MS
James Markis, PharmD
Julie Park, PharmD
Mark Parmenter, PharmD
Manisha Patel, PharmD
Shushma Patel, RPh
Harminder Sikand, PharmD, FCSHP, FASHP
Martin Torres, PharmD
David Troung, PharmD
Deborah Veale, RPh
Brian G. Yamate, PharmD

School of Pharmacy Board of Advisors

Bill Aurora, PharmD
K. David Becker, PhD, MB (ASCP)
Karen Bernstein, PhD
Daniel Bradbury, BPharm, DMS
Gayle Brazeau, PhD
Craig V. Byus, PhD
Anthony Caracciolo, BPharm
Peter Clagett, MBA
Stephen Eck, MD, PhD
Bob Fuladi, PharmD
Sean R. Gallagher, PharmD
Richard Frueh, PhD
Bob Fuladi, PharmD
Brian Maguire, PharmD
Louis Martinelli, PharmD, MBA
Jeff Mason, MD
Ralph Rewers, PharmD
George Savage, MD, MBA
Patrick J. Sinko, PharmD, RPh
Marilyn Standifer Shreve, BPharm, MS
David Swenson, RPh
Curtis Tyree, PhD
Everyone at KGI is saddened by the loss of Harlyne J. Norris of The Kenneth T. and Eileen L. Norris Foundation.

The Norris Foundation was one of the original foundations to invest in KGI, and as a founding donor, has remained an important part of KGI’s history. Mrs. Norris, one of the early trustees at KGI, remained active and committed to KGI’s mission and was an influential figure in planning and development throughout the years. Reflecting this dedication, she accepted the president’s invitation to join the President’s Council and was an Emeritus Trustee.

KGI President Sheldon M. Schuster explained: “Harlyne J. Norris was an exceptional individual who has been a part of KGI from the very beginning. Early on, she shared the vision that KGI could become a leader in teaching students to be successful in the life sciences and biotechnology industries, and I am glad she was able to witness KGI’s progress in meeting those goals. More than anything, Harlyne was a generous and kind person whose dedication to stewardship will continue to improve the lives of many for years to come. She will be deeply missed by all at KGI.”

The Norris Foundation endowed the Norris Professorship, currently held by Dr. Ian Phillips. Commenting on the importance of Mrs. Norris’ support, Dr. Phillips said: “Mrs. Harlyne Norris was a wonderful lady who supported a variety of higher education initiatives at KGI and other universities in Southern California. I met with her on several occasions with President Schuster, and am proud to be the Norris Professor of Applied Life Sciences. Mrs. Norris was so kind and committed to new ideas that would make KGI better known nationally. Thanks to her constant interest and support, KGI founded the Center for Rare Disease Therapies to help people with rare diseases. Mrs. Norris was always sincerely interested in our progress, and in our students who formed the Rare Disease Club. She was charming, intellectually inquisitive, and had a great sense of humor. We will miss her broad smile. Our heart goes out to her entire family.”

Additionally, the Norris Foundation has funded KGI’s Summer Undergraduate Research Experience (SURE) Program for three consecutive years, and as noted above has provided funding for KGI’s Center for Rare Disease Therapies, as well as funding for the refurbishment of the Founders Room.

Her legacy at KGI will continue to provide students with opportunities to become leaders and innovators in the life sciences industry. The entire KGI family will forever owe a debt of gratitude for the support and kindness Mrs. Norris extended.”

In Memorium: KGI Trustee Emerita Harlyne J. Norris
SALS Faculty

Craig W. Adams, PhD
Research Associate Professor; Chair of the Team Master’s Project, Assistant Director Center for Biomarker Research

Edward D. Arnheiter, PhD
Professor of Practice

Susan Bain, DRSc
Professor of Practice, Clinical, Regulatory and Quality; Program Director, MBS in Clinical and Regulatory Affairs

Luann Bangsund, PhD
Professor of Practice

Steve Casper, PhD
Dean of the School of Applied Life Sciences, Henry E. Riggs Professor of Management

Jay I. Chok, PhD
Assistant Professor of Strategy and International Business

James M. Cregg, PhD
Professor Emeritus

Larry Grill, PhD
Dean of Research and Research Professor

Anna Iwaniec Hickerson, PhD
Professor of Practice, Medical Device Engineering; Program Director, MBS in Medical Devices and Diagnostics

Kenneth J. Gruys, PhD
Professor of Practice

Anastasia Levitin, PhD
Research Assistant Professor; Program Director, MBS in Pharmaceutical Discovery and Development

Mikhail Martchenko, PhD
Assistant Professor

Scott Motyka, PhD
Assistant Professor, Marketing

Angelika Niemz, PhD
Arnold and Mabel Beckman Professor, Professor of Practice

James C. Osborne, PhD
The Robert E. Finnigan Professor of Applied Life Sciences, Director of the Center for Biomarker Research, Curator of the Science Heritage Center

Rajesh Parti, PhD
Professor of Practice

Ian Phillips, PhD, DSc, FAHA
Norris Professor of Applied Life Sciences, Director of the Center for Rare Disease Therapies, Faculty Director for the Postbaccalaureate Premedical Certificate (PPC) Program

Animesh Ray, PhD
Professor, Faculty Chair, Director of the PhD Program

Alan Rothfeld, PhD
Professor of Practice

Parviz Shamlou, PhD
George B. and Joy Rathmann Professor, Director of Amgen Bioprocessing Center

James Sterling, PhD
Professor and Faculty Director of PSM National Office, Director of Postdoctoral Professional Master’s Program

Ilya Tolstorukov, PhD
Research Professor

Michelle Wells, RAC
Lecturer, Clinical and Regulatory Affairs

Joel West, PhD
Professor, Innovation & Entrepreneurship

SALS Adjunct and Visiting Faculty

Vince Anicetti
Senior Vice President, Global Quality at Coherus Biosciences

Cameron Lee Bardliving, PhD
Lecturer

Peter M. Bergevin, PhD
Adjunct Professor

Moonkyung Kate Choi, PhD
Adjunct Professor

Eddie Crabbe, PhD
Adjunct Professor

Jenny Darroch, PhD
Adjunct Professor

Denise R. Dunlap, PhD
Associate Professor

Greg P. Godfrey, CQA, CQE, RAC
Adjunct Professor

Nicholas Gorman, EdD, MPH
Adjunct Professor

Jeffery Guyse, PhD
Adjunct Professor

Sukumarakurup Krishnakumar, PhD
Associate Professor

Andrew C. Long, PhD
Adjunct Professor

Richard Y. Okumoto, PhD
Adjunct Professor

Becky Reichard, PhD
Adjunct Professor

Christopher Shen, PhD
Adjunct Professor

Yun Liu, PhD
Assistant Professor
**SALS Teaching Staff**

Arash Abedijaberi, PhD  
Lecturer, Bioprocessing

KiriLynn Svay Hedberg  
Lecturer; Director of Bioprocess Engineering Operations, Amgen Bioprocessing Center, Program Director of BPAT

Meghana Joshi, PhD  
Program Director and Faculty for the Biocon-KGI Certificate Program in Biosciences

Joon Kim, EdD  
Lecturer and Administrative Director of PPC Program

Elba Muñoz, MA  
Assistant Director, Post-baccalaureate Premedical Certificate Program (PPC)

**SALS Professors-At-Large**

Steven K. Galson, MD, MPH  
VP Global Regulatory Affairs, Amgen

Susan Wessler, PhD  
Distinguished Professor of Genetics, University of California, Riverside

**SOP Faculty**

Susan Bain, DRSc  
Professor of Practice, Concentration Coordinator for Clinical and Regulatory Affairs

Christine Cadiz, PharmD, MA  
Assistant Professor, Clinical Sciences

Andrea L. Cooper, PharmD, MPH, BCPS  
Assistant Dean for Pharmacy and Industry Relations, Professor of Practice

Farzad Daneshvar, PharmD  
Assistant Professor, Clinical Sciences

Minh Dang, RPh  
Assistant Dean for Experiential Education, Professor of Practice

Angela Davis, PharmD  
Director, Experiential Education and Professor of Practice

Ron DeBellis, PharmD  
Professor, Clinical Services

David R. Ha, PharmD  
Assistant Professor, Clinical Sciences

Derrick Han, PhD  
Assistant Professor, Biopharmaceutical Sciences

Jeniffer Hernandez, PhD  
Assistant Professor, Biopharmaceutical Sciences

Michelle Hughes, PharmD  
Assistant Professor, Clinical Sciences

Sally Huston, PhD, RPh  
Associate Professor, Administrative Sciences

Jeany Kim Jun, PharmD, MPH  
Assistant Professor, Clinical and Administrative Sciences

Connie Kang, PharmD  
Assistant Professor, Clinical Sciences

Srikanth Kolluru, BS Pharm, PhD  
Associate Professor, Biopharmaceutical Sciences

John Krstenansky, PhD, MBA  
Professor, Biopharmaceutical Sciences

Jean Anne Mire, BS Pharm, MBA  
Professor of Practice, Clinical and Administrative Sciences

Mylene Manalo, PharmD, BCPS  
Assistant Professor of Clinical

Talia Puzantian, PharmD, BCPP  
Associate Professor

Samit Shah, PhD, MBA, RPh  
Associate Dean of Academic Affairs and Chair of Biopharmaceutical Sciences, Sidney J. Weinberg Professor

Armen Simonian, PharmD  
Assistant Dean and Chair of Clinical and Administrative Sciences, Associate Professor, Certificate Coordinator for Health Information Technology

Robert L. Stein, PharmD, JD  
Professor of Practice, Pharmacy Law and Ethics

Tania Stewart, PharmD  
Assistant Professor, Clinical and Administrative Sciences

Rachita K. Sumbria, PhD  
Assistant Professor, Biopharmaceutical Sciences

Kim Tallian, PharmD  
Director, Residency and Teaching Certificate Program, Adjunct Professor, Clinical Sciences

Julie Truong, PharmD  
Assistant Professor, Clinical Sciences

Katerina Venderova, PharmD, PhD  
Associate Professor, Biopharmaceutical Sciences

Kathy Webster, PharmD, PhD  
Founding Dean, Professor

Alexander Zambon, PhD  
Assistant Professor, Biopharmaceutical Sciences
**Mission**
To enrich society with breakthrough approaches to education and translational research in the life sciences.

**Background**
KGI is the only American graduate institution devoted solely to bioscience education and discovery. Founded in 1997, through a $50 million grant from the W. M. Keck Foundation, KGI pioneered a new field of higher education—the Professional Science Masters (PSM)—the first significant change in American science education in 40 years.

As the seventh and newest member of The Claremont Colleges, KGI is part of a group of highly selective, private institutions that share a wide range of central facilities and services.

KGI is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges.

**An Innovative Approach**
KGI’s degree and research programs offered by the School of Applied Life Sciences are singularly focused on the unique and specific demands of the biosciences industry. Recognizing that the solutions to real-world challenges require teamwork, creative problem solving skills and cross-functional fluency, our curriculum is interdisciplinary and incorporates an intensive technical component with a broad management and policy component, as well as innovative approaches to developing leadership skills. As a result, our students graduate with a practical understanding of the results-oriented, collaborative culture in which scientists, engineers and managers operate.

Likewise, KGI’s School of Pharmacy is dedicated to the education of innovative pharmacists who will serve the needs of individual patients, the healthcare system, and the bioscience industry. Our program emphasizes interprofessional collaboration, systematic problem solving, the safe, efficient and ethical use of technology and biotechnology, and personalized patient care.

**Culture**
KGI seeks to sustain an interdisciplinary and entrepreneurial culture, working in partnership with industry to develop leaders for the biosciences and pharmaceutical sciences, while promoting academic freedom and the highest ethical standards.

**KGI Students and Faculty**
Students come to KGI with academic backgrounds in the natural/life sciences, engineering, mathematics, computer science, and medicine. They learn from faculty possessing impressive academic credentials, as well as firsthand knowledge of industry from having worked for biotechnology and pharmaceutical companies. Professors’ keen awareness of the industry’s latest developments allows them to bring new ideas and innovations into their classrooms and labs.

**Statistics**
- 527* students enrolled 2015-2016
- Gender breakdown: (Combined 54% female, 46% male), (SALS 49% female, 51% male), (SOP 63% female, 37% male).
- Ethnic breakdown: 41% Asian, 23% White, 12% unknown, 9% Hispanic, 9% African American, 6% two or more.
- Average age of KGI students: 26 • Average GPA of KGI students: 3.2
- KGI faculty-to-student ratio: 9:1
- Geographic reach: Canada, Mexico, Guatemala, Peru, Spain, Nigeria, Cameroon, Israel, Iran, India, Malaysia, China, South Korea, Japan

**Top 2015-2016 Summer Internships (SALS only)**
- Amgen, Thousand Oaks, CA
- City of Hope, Duarte, CA
- Sarepta Therapeutics, Cambridge, MA
- Illumina, San Diego, CA
- Roche Molecular Systems, Pleasanton, CA
- Boehringer Ingelheim, Fremont, CA
- CareFusion, San Diego, CA
- Covidien, Irvine, CA
- DeciBio Consulting, Santa Monica, CA
- Regeneron, Tarrytown, NY

**Accreditations**
Accredited by the Western Association of Schools and Colleges (WASC); nationally accredited in Art, Applied Life Sciences, Master of Science in Applied Life Sciences, Master of Bioscience, Pharmacy, Postdoctoral Professional Master in Bioscience Management.

**Academic Organization**
The instructional program is offered by two colleges, whose deans are:
- Steve Casper, Dean of the School of Applied Life Sciences; Henry E. Riggs Professor of Management
- Kathy Webster, Founding Dean, School of Pharmacy; Professor of Biopharmaceutical Sciences
- Stephen M. Kosslyn, Founding Dean, School of Arts and Sciences, Minerva Schools at KGI
Academic Programs Offered
Just over 500* students enrolled in:
- Master of Bioscience (MBS)
- Master of Engineering in Biopharmaceutical Processing (MEng)
- Postdoctoral Professional Master’s (PPM)
- Postbaccalaureate Premedical Certificate (PPC)
- PhD in Applied Life Sciences, CAST PhD (PhD)
- Certificate in Bioscience Management
- Doctor of Pharmacy (PharmD)
- Biocon Academy
- Summer Programs
- Minerva Schools at KGI

Other Offerings
- Bioprocessing Professional Advancement Training (BPAT)

KGI Centers
Keck Graduate Institute brings together faculty with expertise in bioengineering, applied molecular and cellular biology, and bioscience business under one administration, with no departmental boundaries. To facilitate interdisciplinary collaborations between faculties from diverse backgrounds, KGI has established four centers based on our unique institutional capabilities.

Amgen Bioprocessing Center
One of the most important teaching and research laboratories at Keck Graduate Institute, the Amgen Bioprocessing Center serves as the basis for the bioprocessing focus track offered as part of KGI’s Master of Bioscience (MBS) degree program. The Center is a state-of-the-art facility where MBS students learn the skills necessary to become leaders in bioprocessing.

Center for Biomarker Research
The Center for Biomarker Research is dedicated to education and applied research activities that expand knowledge and development of biomarkers as a tool for diagnostics, drug development, and the practice of medicine in the 21st century.

Center for Rare Disease Therapies
Established to raise awareness of rare diseases and promote promising treatments, the Center for Rare Disease Therapies educates students to become biotech industry leaders who understand rare diseases and recognize the need for remedies. It brings together all of the parties who can make a difference and find solutions: patient advocacy groups, pharmaceutical and biotech companies, government agencies, research institutions, and nonprofit organization.

Science Heritage Center
Celebrating the great 20th century inventors Arnold Beckman and Wallace Coulter, the Science Heritage Center showcases the pioneering analytical instruments that helped revolutionize the bioscience and diagnostic industries. On display are more than 50 instruments spanning multiple generations, allowing visitors to trace the technical developments that made each model better than the one that preceded it. The Science Heritage Center is open to the public, and students are especially welcome to visit, including high school fieldtrips.
KGI Board of Trustees Celebrate Campus Expansion to 1 North Indian Hill in Claremont
KGI senior leadership and Board of Trustees members had the opportunity to explore the new student work spaces and administrative office spaces slated to open for use in October 2016.

The relocation of senior administrative and student collaboration spaces is necessary as KGI continues on its accelerated growth trajectory.

With student enrollment projected to reach 600 by fall 2018, this is one of many physical expansion projects expected to help meet the needs of KGI’s continued growth.

Locating administrative offices and student collaboration space within the bustling “Claremont Village” puts KGI within the sight-lines of the Claremont Consortium community. Placement of KGI north of Santa Fe Avenue will be a visual cue to fellow Consortium faculty, administrators, and prospective students that KGI is an emerging institution with continued steady growth.
### KGI Financials - June 30, 2016

#### Statement of Financial Position

<table>
<thead>
<tr>
<th>ASSETS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>$2,372,861</td>
</tr>
<tr>
<td>Accounts receivable</td>
<td>$1,508,940</td>
</tr>
<tr>
<td>Prepaid expenses and deposits</td>
<td>$2,366,017</td>
</tr>
<tr>
<td>Contributions receivable</td>
<td>$7,485,424</td>
</tr>
<tr>
<td>Funds held in trust for others</td>
<td>$260,411</td>
</tr>
<tr>
<td>Investments</td>
<td>$68,977,503</td>
</tr>
<tr>
<td>Buildings and equipment</td>
<td>$12,685,289</td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td><strong>$95,656,445</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIABILITIES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts payable and accrued liabilities</td>
<td>$2,511,381</td>
</tr>
<tr>
<td>Deposits and deferred revenues</td>
<td>$2,413,157</td>
</tr>
<tr>
<td>Notes payable</td>
<td>$36,163,335</td>
</tr>
<tr>
<td>Funds held in trust for others</td>
<td>$90,765</td>
</tr>
<tr>
<td><strong>Total liabilities</strong></td>
<td><strong>$41,178,638</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NET ASSETS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Unrestricted</td>
<td>$20,444,829</td>
</tr>
<tr>
<td>Temporarily restricted</td>
<td>$13,875,385</td>
</tr>
<tr>
<td>Permanently restricted</td>
<td>$20,157,593</td>
</tr>
<tr>
<td><strong>Total net assets</strong></td>
<td><strong>$54,477,807</strong></td>
</tr>
</tbody>
</table>

| Total liabilities and net assets | **$95,656,445** |

---

#### Statement of Activities

<table>
<thead>
<tr>
<th>REVENUES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Net tuition and fees revenues</td>
<td>$14,927,798</td>
</tr>
<tr>
<td>Private gifts and grants</td>
<td>$4,064,629</td>
</tr>
<tr>
<td>Private contracts</td>
<td>$1,981,623</td>
</tr>
<tr>
<td>Federal grants and contracts</td>
<td>$994,720</td>
</tr>
<tr>
<td>Investment income</td>
<td>$3,635,229</td>
</tr>
<tr>
<td>Other revenues</td>
<td>$694,273</td>
</tr>
<tr>
<td><strong>Total revenues</strong></td>
<td><strong>$26,298,272</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EXPENSES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Instruction</td>
<td>$6,374,138</td>
</tr>
<tr>
<td>Research</td>
<td>$2,117,127</td>
</tr>
<tr>
<td>Academic support</td>
<td>$6,711,435</td>
</tr>
<tr>
<td>Student services</td>
<td>$2,035,322</td>
</tr>
<tr>
<td>Institutional support</td>
<td>$7,084,912</td>
</tr>
<tr>
<td><strong>Total expenses</strong></td>
<td><strong>$24,322,934</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OTHER CHANGES IN NET ASSETS</th>
<th>($4,063,619)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change in net assets</td>
<td>($2,088,281)</td>
</tr>
<tr>
<td>Net assets, beginning of year</td>
<td>$56,566,088</td>
</tr>
<tr>
<td>Net assets, end of year</td>
<td><strong>$54,477,807</strong></td>
</tr>
</tbody>
</table>

---

#### Revenue

- Tuition & fees: 57%
- Private gifts & grants: 15%
- Investment income: 14%
- Private contracts: 8%
- Federal grants & contracts: 4%
- Other revenues: 2%

---

Financial information provided within this document is summarized from Keck Graduate Institutes’s June 30, 2016 Audited Financial Statements. Full annual financial report available upon request.
KGI continues to evolve and surpass early expectations. Our own institutional mission, “To enrich society with breakthrough approaches to education and translational research in the life sciences” continues to guide and inspire those who work and learn here.

We are proud of the progress made so far, focused on the work at hand, and mindful of all that is yet to be discovered.

An investment of resources in KGI and its students is one that will realize boundless returns for generations to come.

The KGI students, faculty members, staff, and community thank you for your support of our institution.