We want to hear from you!

Please write us a note so we’ll know what’s important to you in science!

LS Berkeley wiki/Diary

1. What questions or issues do you have?
2. What would you like to say to students?
3. What kind of content would you like to see?
4. What kind of support do you need from UC Berkeley?

We're seeking feedback to help us improve our website.

For more information, please visit ucsb.edu/about-us/annual-report.

Marshalling the Immune System for Cures

UC Berkeley biological scientists are revolutionizing immunology research by discovering how to boost the immune system to combat cancer and infectious disease. To facilitate this research, Berkeley has created the Immunotherapeutics Research Institute (IVRI) to support work in this emerging field.

UC Berkeley biological scientists are revolutionizing immunology research by discovering how to boost the immune system to combat cancer and infectious disease. To facilitate this research, Berkeley has created the Immunotherapeutics Research Institute (IVRI) to support work in this emerging field.

The IVRI was launched in March 2016, and was kicked off with a full day of experiments, stimulates profound tumor rejection, and improves the life-saving power of immunotherapies.

The IVRI is supported by a $10 million endowment from Professor David Raulet, a UC Berkeley distinguished professor of medicine and immunology. The endowment will provide unrestricted support to the IVRI and its associated research programs.

Professor David Raulet, a UC Berkeley distinguished professor of medicine and immunology, states: "The IVRI is dedicated to supporting the development of revolutionary new immunotherapies to combat cancer and infectious disease. The IVRI will provide the resources and infrastructure needed to bring these new treatments to market."
A Berkeley Alliance Afield in Africa

Graduate students play an essential role in our work at UC Berkeley—teaching our undergraduates, conducting ground-breaking research, and supporting our world-class faculty. To bring this best young talent to the world at Berkeley, and we deeply appreciate those donors who choose to support our grad students in it. In doing so, they support so much more. Here are a few examples of our students’ achievements:

Nick Reardon of doing the campus clean-up. We’ve seen a linkage between biology and physics, and we’re seeing the effects of global warming off the California coast are affected. We found that the nuts harvested were on them. This year, we went around to support the process. We think that climate change comes to us. We see increasingly signs of climate change in our understanding of our changing climate.

Dan Kelly lives for his life sciences. He does a lot of research, and then a medical student, he can see that research. He went on to serve the poor in rural areas. He founded the Berkeley Research Alliance, a nonprofit organization to continue that work. After working for Mr. M. she graduated from Berkeley's elite undergraduate business program in four years. With the combination of Berkeley's elite undergraduate business program and the depth of our faculty and industry cell biology, graduate students who participate in the program will develop the skills needed to create strong scientific and public health platforms in the future.

HOMER’S BIODIVERSITY, SCIENCE DEFENSE AND SCHOOL OF PUBLIC HEALTH: UC Berkeley's Biology Business Dual Venturing? The Biology’s Newest Innovation on Cape Verde: The Alliance presents a golden opportunity to build on our relationships with public health practitioners from these regions, many of whom have returned home and have used expertise in infectious disease epidemiology, of Public Health and Preventive Medicine. Dan Kelly, CEO of Aduro BioTech, will focus on Africa, bringing Berkeley’s existing relationships with universities and partners in epidemiology and public health to bear.

The Alliance is a collaboration between the President’s Center for Innovation and Public Service, the Office of the Chancellor, the Office of the Vice Chancellor for Health Affairs, and the Department of Pharmaceutical Sciences. It is led by a team of experts in infectious diseases, epidemiology, public health, and infectious disease research.

The program will enable us to understand the world in a better way. We see the need to create strong scientific and public health platforms in the future that will develop the skills needed to create strong scientific and public health platforms in the future.

California is the largest in the United States, in fact, it would rank sixth in the world if it were a sovereign country. It is home to some of the world’s most important and innovative companies, including Apple, Google, and Facebook. The state’s economy is the largest in the world, and it is the home of some of the world’s most prestigious universities, including UC Berkeley.

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The planning of Alliance initiatives is under way. Based on faculty expertise and the global needs of these regions, potential projects will be developed in the areas of infectious disease ecology and public health, research and development, and public health policy.

The planning and development efforts will be based on the science-based knowledge of infectious disease epidemiology, public health, and infectious disease research.

Infectious diseases are a leading cause of death worldwide, and they affect people of all ages, from the very young to the very old. In the United States, infectious diseases are the leading cause of death for children under the age of five, and they are responsible for the deaths of more than 10 million people worldwide each year.

Biotech Lightning Talks Spark Connections

UC Berkeley scientists and faculty members are at the forefront of research on infectious disease epidemiology and public health, and they are working on a wide range of projects that are leading to new breakthroughs and discoveries. UC Berkeley is one of the top universities in the world, and it is the home of some of the world’s most prestigious research institutions, including the Lawrence Berkeley National Laboratory and the Institute for Quantitative Biology.

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Marshalling the Immune System for Cures

UC Berkeley biological scientists are revolutionizing immunology research by discovering how to boost the immune system to treat cancer and infectious disease. To facilitate this research, Berkeley has created the Immune Therapeutics and Oncology Research Initiative (ITRI). The initial support for the ITRI was provided by $7.5 million in funding from Aduro BioTech, a local biotechnology company headed by Berkeley alumnus Stephen Isaacs. The ITRI seeks to build collaborations between cancer researchers and infectious disease experts to identify novel therapies to combat both types of diseases.

Jim Allison's demonstration that antibodies that block specific immune excitation and unique idea, and could be where the next generation of therapy was born at UC Berkeley, thanks to the work of then Emerg. Neglected Diseases and Cancer Research Laboratory.

Cancer and Infectious Diseases,” sponsored by Berkeley’s Center for

Both types of disease.

build collaborations between cancer researchers and infectious disease experts to identify novel therapies to combat both types of disease.

David Raulet’s lab reported promising evidence for two types of agents that are effective in mobilizing anti-tumor responses of

Portnoy’s lab, developing cancer cures. Other critical work by Berkeley scientists

the immune system is the most promising approach yet for developing cancer cures. Critical work by Berkeley scientists

has provided the basis for additional ITRI research. Professor Dan Portnoy developed an in vitro security system with potential applications for both infectious disease and cancer. Portnoy’s lab, along with that of Professor Russell Vance, discovered that small molecules produced by bacteria called cyclic-dinucleotides

studies are critical in uncovering potential clinical applications. In fits and starts, experimental studies have explored tumor suppressor genes, and the effects of modifiers and factors that influence the development of cancer.

We want to hear from you!

Please visit the website or email us directly.

For more information, please visit kathrynmduszynski.berkeley.edu.

Carrubba Fellowship Helps Students Soar

A minority grid student working at the UC Berkeley Museum of Paleontology in the Berkeley, California, is the recipient of a 2016-17 Carrubba Fellowship. The fellowship was established by the late Nicholas Carrubba, a UC Berkeley physicist who earned his Ph.D. in Physics and Molecular and Cell Biology, joint appointments in the Departments of Astronomy and Molecular Cell Biology, and a world-renowned expert in imaging technology. Professor Betzig was recognized for his work in super-resolution microscopy, specifically the ability of fluorescent molecules to emit light at specific wavelengths. This work, along with the development of fluorescent proteins, made it possible to use microscopic techniques to follow the movement of cellular structures and molecules within living cells. These developments have revolutionized the field of biology, allowing researchers to study the dynamic processes that govern life.

When I first entered Berkeley, I thought of a better place on Earth to be in than California. Physicist Lisa White, who earned her Ph.D. in Chemistry here,

neurobiology, specifically the activity of

na Ji, who won the

Simply put, Betzig won his Nobel for

For more information, please visit

For 4 years I’ve been thinking about the kind of legacy I wanted to leave. This award is a token of my appreciation for the faculty and students with whom I worked in my time at the Department of

WHERE NEXT? WHOSE NEEDS ARE SERVED? by California for its show "Making

"For 25 years I’ve been thinking about the kind of legacy I wanted to leave. This award is a token of my appreciation for the faculty and students with whom I worked in my time at the Department of Paleontology and Evolutionary Biology, who have been a source of inspiration and support to me."

Paleontologist Lisa White on Nova "NOVA"

"Tens of thousands of people can now see the evidence for the San Andreas fault, and the Museum of Vertebrate Zoology is the only place in the world where we have the opportunity to do this."" - Paleontologist Lisa White

"It is exciting to see how UC Berkeley is leading the charge in innovation and discovery in the field of paleontology, and I am proud to be part of that dynamic community."

Lisa White on Nova "NOVA"

The UC Berkeley paleontological collections include more than 30 million specimens, including fossils from the Cambrian to the Holocene. The museum’s facilities and research programs are world-renowned, and it serves as a hub for paleontological research and education in the western United States and beyond.

For more information, please visit

University of California, Berkeley

Division of BIOLOGICAL SCIENCES

\textit{LS.Berkeley.edu/BSDSurvey}

\textit{ncole@berkeley.edu}

\textit{If you have questions or would like more information, please contact:}

\textit{LS.Berkeley.edu/BSDSurvey}

\textit{ncole@berkeley.edu}
**Biology’s Newest Venture**

**The Biology Business Degree Program**

With this program, Berkeley aims to prepare students for the professional world, and to reposition the School of Biology at the forefront of biological inquiry. By attracting students to consider biology as a major, developing experiential opportunities, and building connections with the Bay Area’s biotech and life science sector, the program is being carefully developed to prepare students for a diverse range of career outcomes.

**A Berkeley Alliance Afield in Africa**

Berkeley’s Biological Sciences Division and School of Public Health have created an initiative to foster scientific and public health research in developing countries—the Alliance for Global Health and Science. Recent outbreaks like Zika and Ebola have made clear the need for improved infrastructure, biosafety, and the ability to respond rapidly and effectively to disease outbreaks.

The Alliance presents an opportunity to leverage the strengths of Berkeley and its partner institutions to make a substantial impact on global health. The three key components of the initiative are:

- **Initiatives:** A seed grant to promote collaborations; and early-stage career support for low- to middle-income scientists from developing countries.
- **Institutions:** A Berkeley Alliance Afield in Africa (BAAAF) will bring together Berkeley, Massachusetts Institute of Technology (MIT), and Stanford University to coordinate research and training in neglected diseases and global health.
- **Resources:** A seed grant to promote collaborations; and early-stage career support for low- to middle-income scientists from developing countries.

**Biotech Lightning Talks Spark Connections**

California is famously known as the land of the start-up. In fact, it would rank sixth in the world if it were a sovereign country. And the Bay Area is the epicenter of this economic strength in the Bay Area. Our biological scientists collaborate with others in California and across the country to turn discoveries into new therapies and products. A few examples include:

- **Chris Somerville (Partner, Latham Watkins, and professor of plant and microbial biology and genomics)** co-founded Wellbody Alliance, which uses genome information on the entire kelp species to infer fluctuations in climate and ocean, right at the intersection of genomics, biotechnology, and environmental science.
- **Shih-Yi “Winnie” Chang (Partner, Alta Partners; IGI scientific director and senior author on the study)** states “We’re very excited about the potential of CRISPR-Cas9 technology. We believe that CRISPR-Cas9 will revolutionize drug discovery and development.”
- **Danae Ferrari (associate professor of medicine and health sciences and director of the Mohawk Biotechnology Graduate Program)** has created a new course on CRISPR-Cas9 gene editing technique, which will be offered this spring, and Dragonfly Therapeutics, a discovery-stage company developing novel therapeutics for cancer and other diseases.
- **Renee Reijo Pera (Professor, Integrative Biology, UC San Francisco—San Francisco, and UCSF)** is excited about the potential of CRISPR-Cas9 technology for cancer research.

**Reshaping Sickle Cell Disease**

A cure for sickle cell disease may be in sight. UC Berkeley, along with UCSF and its Benioff Children’s Hospital Oakland, is leading the final charge to elucidate this disease that affects primarily African Americans and sub-Saharan African populations.

**Our Graduate Students = Change-Makers**

Graduate students play an essential role in our work at UC Berkeley—teaching our undergraduates, conducting ground-breaking research, and supporting our world-class faculty to take on the best young talent in the world to Berkeley. We deeply appreciate these students who choose to support our graduate students. In addition, they are the very essence of what makes us all UC Berkeley—a place to live and thrive. A few examples of our students’ accomplishments:

- **Nick Harrison**: In doing the research, he made the discovery that the interplay between biology and physics is essential to understanding the world. His paper in *Science* was one of the top three most-read papers of the year.
- **Daniel Kelly**: He has fostered the relationship between Berkeley and public health. Dan is a leading expert in infectious disease epidemiology, former public health professor at Emory University, and Associate Director of the Center for Tropical and Emerging Disease. He has published extensively on infectious diseases in the context of global health, and has supported graduate and undergraduate students in community and public health projects in Africa. The current research team at the Center for Tropical and Emerging Disease is focused on understanding the role of malaria in the spread of influenza and other respiratory tract infections. His work has been instrumental in building partnerships and establishing collaborations with international organizations, including the World Health Organization and the African Union.
- **Sean Kelly**: His research focuses on the intersection of molecular and cell biology with public health. He is actively involved in community education and outreach efforts, and has been involved in public health efforts to combat the spread of novel coronavirus (COVID-19).

**For more information, please visit Berkeley-Medical.Docs**

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**For more information, please visit news.berkeley.edu/2016/09/21/biohub.**

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**For more information, please visit scishare.berkeley.edu.**

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A Berkeley Alliance Afield in Africa

The planning of Alliance initiatives is still under way. Based on faculty expertise and the needs of the region, a small pool of faculty will be selected to participate in the work. The planning of Alliance initiatives is still under way. Based on faculty expertise and the needs of the region, a small pool of faculty will be selected to participate in the work.

BioHub’s Biological Sciences Division and Schools of Public Health

Biocenosis’s Biological Sciences Division and Schools of Public Health have created an initiative to foster scientific and public health research conducted in developing countries—The Center for Global Health and Science. The initiative is being lead by UC Berkeley, in conjunction with the London School of Hygiene and Tropical Medicine, and aims to promote research and policy development in the fields of global health and biomedical science.

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Nick Hernandez is doing the grunt work of the genome project and the other one is the one who is really pushing it. I mean, there are a couple of students who are really pushing it.

With the combination of Berkeley’s role in developing advanced biological programs and the strengths of our cell biology and molecular biology department, the program is being carefully developed to prepare students for a successful career after university.

Biotech Lightning Talks Spark Connections

California is one of the leading states in the United States. In fact, it would rank sixth in the world if it were a country. It’s also one of the most diverse states in the country, which makes for a unique and exciting ecosystem within the Bay Area. Our biologists and entrepreneurs are constantly finding new ways to bring their ideas to fruition, and our graduate students are an integral part of this process.

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UC Berkeley biologists are revolutionizing immunology research by discovering how to boost the immune system to combat cancer and infectious disease. To facilitate this research, Berkeley has created the Immunotherapeutics Initiative (IVRI), which provides a single place for basic and translational research on immunotherapies for cancer and infectious disease applications. A key component of the IVRI is the Russell Vance Lab, co-directed by Berkeley professors David Raulet and Russell Vance, that works to build collaborations between cancer researchers and infectious disease experts to identify novel therapies to combat both types of disease.

David Raulet’s lab reported promising evidence for two types of disease-causing microbes work as cancer therapies, and conversely, that immunotherapies for cancer may have application in fighting disease-causing microbes. To develop innovative therapies, the IVRI has created the Immunotherapeutics Initiative, which provides a single place for basic and translational research on immunotherapies for cancer and infectious disease applications. The IVRI seeks to accelerate the translation of discoveries made at UC Berkeley into clinical realities and to expand the reach of these advancements globally.

One of the key goals of the IVRI is to foster interactions between basic cancer researchers and infectious diseases experts. The IVRI is also working to establish partnerships with other universities and institutions to expand the scope of its impact. The IVRI has established the M. Kathryn Scott Memorial Endowment Fund to provide support in perpetuity for programs that honor Kathy’s legacy and continue her vision of excellence in excellence in science and education.

For more information, please visit the IVRI’s website at ivri.berkeley.edu.

**Marshalling the Immune System for Cures**

**In Memoriam**

Kathleen A. Kmiec, Ph.D.

Kathy’s legacy will be remembered far beyond UC Berkeley.

Kathy lived in discovery and in service to others. Her research contributed to our understanding of the immune system and how it responds to cancer and infectious disease.

Kathy’s work was characterized by a commitment to excellence and a dedication to mentoring the next generation of scientists. Her research focused on understanding the mechanisms that govern immune responses to cancer and infectious disease, and she made significant contributions to the field of cancer immunology.

Kathy was a mentor and role model to countless students and postdoctoral fellows who are now leading their own research laboratories around the world. Her legacy will continue to inspire and guide future generations of scientists.

**Wendy Schekman**

Berkeley Professor of Molecular and Cell Biology

Jim Allison

Berkeley Professor of Molecular and Cell Biology

**Russell Vance**

Berkeley Professor of Molecular and Cell Biology

**KC Mitchell**

Berkeley Professor of Molecular and Cell Biology

**Kirsten Swan**

Director of Development

College of Letters & Science

Nicholas Cole

Director of Development

College of Letters & Science

**We want to hear from you!**

Please visit the website at ivri.berkeley.edu to learn more about important events and projects.

**Graduate Students Soar**

As a minority grad student perceiving the Berkeley Lab of the Neurosciences Institute, Ricky Djamaluddin felt that he could do anything he set his mind to. For Ricky and the next generation of graduate students in science, Berkeley Lab is a testament to what can be achieved when individuals from all backgrounds pursue their goals and dreams.

Ricky Djamaluddin's story is one of perseverance and determination. Born in Indonesia, Ricky initially faced challenges in pursuing his passion for science. However, through the support of his family, mentors, and the Berkeley Lab community, he was able to overcome these obstacles and pursue his dream of studying at one of the world's leading research institutions.

At Berkeley Lab, Ricky was able to work with a team of experts in the field of neuroscience, and he was able to make significant contributions to the field. His research focused on understanding the mechanisms that govern the development of neural circuits in the brain, and he made important discoveries that have implications for understanding neurological disorders.

Ricky's story is one of inspiration and hope. It shows that with determination and hard work, anyone can实现 their dreams, regardless of background or circumstances. In the words of Ricky Djamaluddin: "My story is very important because it shows that anything is possible if you work hard and never give up. My Berkeley experience is something that I will always remember and cherish."

Ricky's legacy will continue to inspire future generations of students to pursue their dreams and make a difference in the world. Berkeley Lab is committed to creating a diverse and inclusive community where everyone's contributions are valued and celebrated. As one of Berkeley Lab's many proud employees, Ricky is a testament to the power of science and the potential of individuals to change the world for the better.

For more information, please visit ccr.berkeley.edu.

**Division of BIOLOGICAL SCIENCES**

**Paleontologist Lisa White on NOVA**

Lisa White is a paleontologist who has spent her career studying the history of life on Earth. Her work has taken her to remote locations around the world, where she has uncovered evidence of ancient life forms and helped to unravel the mysteries of Earth's past.

Lisa's research has focused on the study of fossils, which are the preserved remains of ancient organisms. By analyzing these fossils, Lisa and her colleagues can gain insights into the history of life on Earth, including how different species evolved and how they interacted with each other and their environment.

Lisa's work has been featured on NOVA, a popular science program on PBS. In her segment on the UC Museum of Paleontology, Lisa introduces viewers to the museum's collections and explains how paleontologists use fossils to study the history of life on Earth.

In this segment, Lisa explains that paleontologists use fossils to study the history of life on Earth. By analyzing fossils, paleontologists can learn about the evolution of different species and how they interacted with each other and their environment. Lisa also discusses how the UC Museum of Paleontology is using technology to digitize its collection and make it more accessible to the public.

Lisa's work is an important part of the scientific community's efforts to understand the history of life on Earth. By studying fossils, paleontologists can gain insights into the past and help us to better understand the world we live in today.

For more information, please visit the UC Museum of Paleontology's website at paleo.berkeley.edu.