different pathology slides without involving diagnoses. This approach allowed the team to develop the algorithm using tissue samples from a vast array of tumors, some nearly as rare as their diagnoses.

Once the algorithm had familiarized itself with variations in tumor cells and biomarkers, it was given access to an additional 100,000 images of breast cancer tissue stained for high-confidence antibodies. With access to these images, the team trained its algorithm to identify tumor patterns and biological variations, such as the presence of signaling molecules and receptors, that influence the 3D organization of a tumor. Through training, we have learned how to recognize specific structural fingerprints that can differentiate tumors into subtypes.

In addition to identifying tumors, the algorithm can help classify tumors using a two-step process of recognizing unique and familiar tissues. First, the algorithm is taught to identify known patterns of tissue slides, allowing it to distinguish between distinct tumor subtypes. Second, it is trained to recognize patterns and biological variations, such as the presence of signaling molecules and receptors, that influence the 3D organization of a tumor. Through training, we have learned how to recognize specific structural fingerprints that can differentiate tumors into subtypes.

The Ellison Institute has partnered with the National Cancer Institute (NCI) at the National Institutes of Health (NIH) to scale this transformative technology. The Ellison Institute is leading an effort to use this technology to measure changes in tumor cell behavior in real-time during treatment. This technology's applications could one day reach far and wide and make an unprecedented impact on cancer care.

As the tour progresses, visitors will have the opportunity to look through pathology slides, view medical imaging, and engage in interactive discussions with researchers. They will see and hear about current research priorities, including personalized medicine and precision oncology. They will also learn about the Ellison Institute's collaborative approach to cancer research and its commitment to advancing translational science.

In conclusion, the Ellison Institute is a leading research institute dedicated to transforming cancer science and care. Through its multidisciplinary approach to research and translation, the Ellison Institute is making a significant impact on cancer care and the fight against cancer. By bringing together scientists, clinicians, and patients, the Ellison Institute is innovating more intelligently if we learn from the history upon which we are building.
**Nutrition in the Lucky Years**

I can't be stressed enough, maintaining a healthy diet is one of the most important elements of a healthy lifestyle. In our profession, we all understand this in theory but in practice, wading through the highly saturated nutrition and wellness literature and information can be daunting and time-consuming. To guarantee our patients can target optimal health and maintain it throughout their life, maintaining an evidence-based diet is the first line of defense.  

To this end, I often defies traditional assumptions about healthy eating and wellness practices.  

The Ellison Institute for Science of Health and Medicine, founded in 2015 by the late investor and philanthropist Lawrence J. Ellison, was created to bring together some of the best and brightest minds to advance cancer research and to deliver a new model of precision therapy and prevention.  

As the head of the Institute, I am constantly thinking of ways to use nutrition and lifestyle modification to ‘change the soil’ within the body to act as a protective element in the fight against cancer. Since joining the Institute, Dr. Barker was appointed to the National Cancer Advisory Board of the National Cancer Institute. She also received the Steve Brown Award as co-founder with Lael Collins, director of the NIH, and the founding team. Barker also holds a master's degree in public health and a graduate degree in international health from Columbia University and a master's degree in public health from the London School of Hygiene & Tropical Medicine. She is a member of the American Cancer Society's Council for Tobacco Free Kids. She is also a member of the American Society of Clinical Oncology and the American Society of Clinical Oncology.  

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Anna Barker, PhD, joins the Ellison Institute as Chief Strategy Officer

**Art to Complement the Science of Healing**

The Ellison Institute is fortunate to house incredible artworks that breathe life into our new building and transform it into a space that is more than just a place of work. We are keen on highlighting from the building’s Ellison Collection. We can’t wait for you to experience the artistry of our patrons in person!

**HOPE by Robert Indiana—Our 3,000 pound, corten steel HOPE statue is located at the heart of our building because we know that the center of our mission at the Ellison Institute is to set HOPE for cancer patients, and provide them a pathway to future treatments and cures.**

**LOVE by Robert Indiana—Our LOVE statue, a colorful relative and predecessor of the HOPE statue, is located on the third floor of our building. It was commissioned in 1955, and has become an iconic representation of American pop art and its variations has been employed to create pieces imbued with political and social commentary. In 2009, the artist created a new model of precision therapy and prevention in our building because hope is at the heart of our mission at the Ellison Institute.

**Nutrition in the Lucky Years**

It can’t be stressed enough: maintaining a healthy diet is one of the most important elements in fighting cancer. We understand this in theory but in practice, we’re working through the highly saturated nutrition and wellness interventional landscape to ensure that our patients are able to maintain their quality of life and continue to fight. Ensuring that our patients are able to maintain their quality of life and continue to fight. Ensuring that our patients are able to maintain their quality of life and continue to fight.

After earning her undergraduate degree from NYU, Cohen earned her master’s degree in dietetics and nutrition from Oregon State University, Los Angeles. She started her career as a clinical dietician and transitioned into community nutrition with both national and state role models. She is a member of the Academy of Nutrition and Dietetics.

**Jen You Trank & J. Weiss—Clues contemporary art and air art. Jen Weiss is known for employing activated charcoal and food art to create pieces instead of political and social commentary. In 2009, the artist created a new model of precision therapy and prevention in our building because hope is at the heart of our mission at the Ellison Institute.

**Jenoine Paolo (Jen)—Fresh food is a gift food and fish dishes that will take 50 more years. The first, most important thing we can do for patients is to ensure they are on the right path. We do this by creating a space that is not only heal the body, but heals the mind and soul.**

**LARS EDINSSON—**

This polychrome aluminum, word-as-a-form-of-art sculpture is located on one of the Ellison Institute’s most important locations. It can’t be stressed enough: maintaining a healthy diet is one of the most important elements in fighting cancer. We understand this in theory but in practice, we’re working through the highly saturated nutrition and wellness interventional landscape to ensure that our patients are able to maintain their quality of life and continue to fight.
Anna Barker, PhD, joins the Ellison Institute as Chief Strategy Officer

We are proud and excited to share that we recently welcomed Anna Barker, PhD, as our first Chief Strategy Officer at the Ellison Institute! Anna has joined us in this role to lead our strategic pursuits, and we are thrilled to bring her to the Institute.

Anna Barker, PhD, joins the Ellison Institute as Chief Strategy Officer at the Ellison Institute. Dr. Barker’s history is marked by innovation in cancer research and management. Following her early work on the human genome project, Dr. Barker has a proven track record of helping to drive the success of several large-scale initiatives and business opportunities in the field of cancer research. Barker joined us in this role to lead our strategic pursuits.

Previously, Barker served as the director of the National Cancer Institute (NCI) and deputy director of the National Institute of Biomedical Imaging and Bioengineering (NIBIB), which she helped found. She also served as deputy director of the NCI, a position she held for five years. Barker’s work has focused on the development of translational platforms and national programs to move fundamental discoveries into clinical practice, as well as the delivery of the best research and care to patients.

Barker also spent several years at Battelle Memorial Institute, a nonprofit research and development organization focused on developing innovative solutions to complex problems. During her time at Battelle, Barker led a team of researchers focused on the development of technologies to improve the health and well-being of patients with cancer.

Barker received her M.A. and Ph.D. from Ohio State University, where she studied the intersection of biology and technology. She later became a professor of biochemistry at the University of Illinois at Chicago, where she continued her research on the role of signaling pathways in cancer.

In 2003, Barker was named deputy director of the National Cancer Institute (NCI), a position she held for five years. During her tenure at the NCI, Barker was responsible for overseeing the agency’s research and development initiatives, including the Cancer Genome Atlas, the Cancer Genome Project, and the Cancer Genome Project Cancer Atlas. She also led the development of the NCI’s Cancer Genome Project, which was launched to identify the genetic changes that cause cancer.

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From the Desk of David B. Agus, M.D.

Dear Friends,

The past few months have brought with them some altered changes, and thus these past light and dark times have served as a catalyst to accelerate progress and transform cancer care.

I could not be prouder of the way our Ellison Institute team has collectively stepped up to continue in pushing forward in our mission while adjusting to this new normal. Our clinical and research teams have continued to serve patients at the highest level, and our scientific team continues to expand our portfolio of science through critical partnerships.

We have also been involved in the national response to COVID-19, notably by working with Oracle on the COVID-19 Therapeutic Monitoring System. The online tool collects real-world data on doctors' treatment choices and COVID-19 outcomes in patients. The Ellison Institute has leveraged this time to convene virtually to optimize our path moving forward as we continue working to deliver transformative innovations to patients.

This new facility is a daring dream come true, and I am honored and humbled by your dedication to helping us see this vision to fruition. As always, I deeply appreciate your support for the Ellison Institute as we push forward with life-changing research. Each of your contributions makes our institute move closer to this vision to fruition. As always, I deeply appreciate your support for the Ellison Institute as we push forward with life-changing research. Each of your contributions makes our institute move closer to this vision to fruition. As always, I deeply appreciate your support for the Ellison Institute as we push forward with life-changing research. Each of your contributions makes our institute move closer to this vision to fruition. As always, I deeply appreciate your support for the Ellison Institute as we push forward with life-changing research. Each of your contributions makes our institute move closer to this vision to fruition. As always, I deeply appreciate your support for the Ellison Institute as we push forward with life-changing research. Each of your contributions makes our institute move closer to this vision to fruition. As always, I deeply appreciate your support for the Ellison Institute as we push forward with life-changing research. Each of your contributions makes our institute move closer to this vision to fruition.

Shaping the Next Generation of Scientific Minds

If you train a computer to reproduce what a person knows how to do, it's never going to get far beyond human intelligence. And if you train a computer to reproduce what a person could theoretically do, it's never going to move and manipulate living tissue. The technology is similar to how we learned to walk. Years before we could walk, we had to study the architecture of the human foot and leg. We had to study the muscles and bones of the human foot and leg. We had to study the mechanics of the human foot and leg. We had to study the mechanics of the human foot and leg.

Ellison Institute researchers have developed a method of “fingerprinting” breast cancer tissue samples to identify unique features in the cellular architecture and enhance precision diagnostics. The left image shows a portion of a stained breast cancer pathology slide. The Ellison Institute has partnered with the transdisciplinary faculty of the Center for Health Ethics, Society and Science (CHES) to guide our work.

By correlating a tumor’s architectural pattern with a known diagnostic category, the algorithm can ultimately help clinicians determine if a tumor will respond to a given treatment. Breast tumors that express a molecular called estrogen receptor, for example, may have a 40% chance of responding to a newly discovered chemotherapy drug. This method allows oncologists to test the architecture of the tumor in order to deliver more effective and personalized treatments to patients.

Lawrence J. Ellison Institute for Translational Medicine of USC

Ellison Institute researchers receive NIH funding to develop diagnostic tweezers

For our culture, we won’t be back online for the traditional brick-and-mortar campus. We’re working on a 21st century campus. Ellison Institute building—will be designed around a green central plaza that will be open to the public. The building will be designed around a green central plaza that will be open to the public. The building will be designed around a green central plaza that will be open to the public. The building will be designed around a green central plaza that will be open to the public. The building will be designed around a green central plaza that will be open to the public. The building will be designed around a green central plaza that will be open to the public. The building will be designed around a green central plaza that will be open to the public.

Lawrence J. Ellison Institute for Translational Medicine of USC

From the Desk of David B. Agus, M.D.

2020
Fingertip" Tumors to Enhance Cancer Diagnostics

The Ellison Institute for Transformative Medicine

Shaping the Next Generation of Scientific Minds

Ellison Institute Research NeuHI Develop Acoustic Tweezers

By the time you read this letter, we will be moving into our new facility at 12434 Exposition Boulevard on the Westside of Los Angeles. This bold, modern facility is a reflection of our vision to build a center of discovery dedicated to interdisciplinary collaboration. With its state-of-the-art laboratories, classrooms, and collaboration spaces, it will serve as a hub for our scientific community and provide a space for our team to drive transformative research.

We have also been involved in the national response to COVID-19, notably by working with Kaiser on its COVID-19 Therapeutic Monitoring System. The online tool collects real-time data in treated cancer patients and collects real-time data on doctors' treatment choices and resulting outcomes for COVID-19 patients, and it is made available to any institution that wants to add this capability. With this new facility, we are moving forward with our mission to integrate medicine, science, and technology to advance the care of patients with cancer.

This new facility is a daring dream come true, and I am honored and humbled by your dedication to helping us see this vision to fruition. As always, I deeply appreciate your support as the Ellison Institute as we push forward with life transforming research. Each of you contributes something unique and valuable to our collective mission, and we are so grateful to you that part of this journey. As we look forward and building this groundbreaking work that is to come in our new building, and our team never become complacent and always stay on the leading edge of cancer care.

With respect,

David B. Agus, M.D.

Transforming medicine involve thinking about the disease itself in terms of the signal transduction pathways through which the cancer changes, tissue changes, and the molecular and medical technologies. In the future, we hope to expand our educational presence in this field by hosting industry, screening documentaries and conducting classes on advancement of diagnostics.

The Ellison Institute has partnered with the transdisciplinary faculty from the Viterbi School of Engineering’s Department of Biomedical Engineering and the USC School of Dentistry to shape the educational sides of the future.

Ellison Institute building integrates today’s cutting-edge techniques of practicing medicine, major scientific breakthroughs in shaping the scientific mind of the future. For these reasons, the new Ellison Institute building will be a significant investment in shaping the scientific mind of the future.

As part of our Education and Outreach Program, the Ellison team has worked together to help share groundbreaking work that is to come in our new building, and our team never become complacent and always stay on the leading edge of cancer care.

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With clinically annotated pathology data in short supply, we must use our visual. We hope to create a vast and dynamic annotated pathology data set that will enable our research. The Ellison Institute’s brain imaging tool is a powerful and versatile tool for analyzing tissue samples. It is a versatile and powerful tool for analyzing tissue samples.

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