



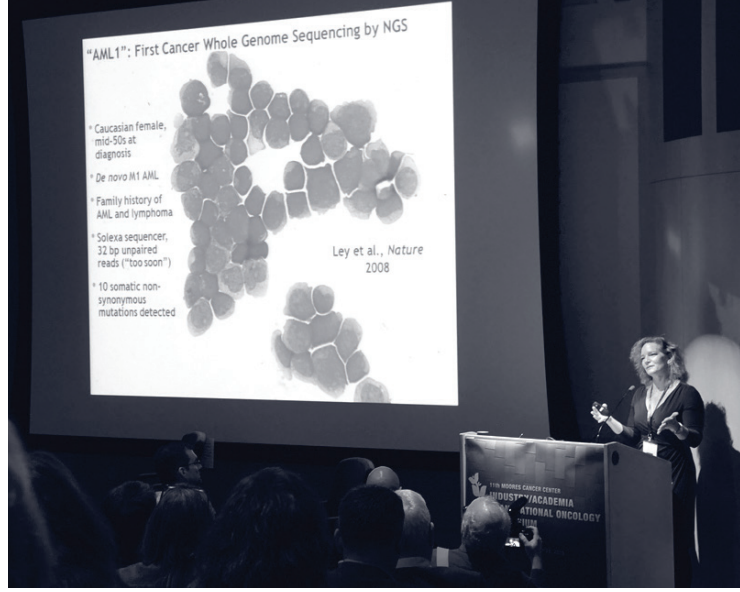
DUANE ROTH ACHIEVEMENT AWARD

PRESENTED AT THE
UC SAN DIEGO MOORES CANCER CENTER
INDUSTRY/ACADEMIA SYMPOSIUM

UC San Diego
MOORES CANCER CENTER

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ABOUT THE DUANE ROTH ACHIEVEMENT AWARD

The Duane Roth Achievement Award recognizes and honors patient-focused leaders in health care whose work has overcome scientific, financial, institutional, political and cultural challenges to create new paradigms in research and treatment. Named after Duane Roth, an esteemed leader in the biotech industry who died tragically following a bicycle accident in 2013, the award is given to those who demonstrate his deep commitment to innovation and patients.

Past recipients include: Laura Esserman, M.D., MBA, UCSF Helen Diller Family Comprehensive Cancer Center; Brian Druker, M.D., Knight Cancer Institute at Oregon Health and Science University; Dennis Slamon, M.D., Ph.D., UCLA Jonsson Comprehensive Cancer Center; Sandra Horning, M.D., Executive Vice President, Global Development and Chief Medical Officer, Genentech; Carl June, M.D., University of Pennsylvania School of Medicine; Susan Band Horwitz, Ph.D., Albert Einstein College of Medicine; and Scott Gottlieb, M.D., 23rd Commissioner of the Food and Drug Administration (FDA). Biographies of past winners and their accomplishments are within this booklet, along with our 2021 Recipient. The Duane Roth Achievement Award Committee is composed of all past recipients of the Award. This body is tasked with selecting the awardee annually.

The UC San Diego Moores Cancer Center Industry/Academia Symposium

Since 2005, UC San Diego Moores Cancer Center's Office of Industry Relations annually organizes the Industry/Academia Translational Oncology Symposium - a unique forum where distinguished investigators, scientists, and clinicians join top industry decision-makers to discuss the latest breakthroughs in translational oncology research. Presentation subjects include personalized medicine, targeted therapy discoveries, collaborative clinical trials and case studies of successful collaborative projects. An interactive panel session composed of industry and academia panelists and the concluding networking reception allow for further dialogue of ideas and the fostering of collaborative relationships.

The Duane Roth Achievement Award has been proudly presented as part of the Symposium since 2014.



DUANE ROTH

Engaged Mentor & Business Visionary

It is difficult to describe the essence of Duane Roth in a few words, but some that come to mind are caring, passionate, genuine, selfless and dedicated. When he believed in an idea or project, he would pursue it with incredible determination and effort, and motivate others to follow.

Duane always loved his work. Starting as a restaurateur, then a building products salesman and on to hospital sales and product development roles with major pharmaceutical companies led him to his 20 years as CEO of a startup drug development company.

All of these experiences prepared Duane for his eight years as CEO of Connect, a nonprofit organization that promotes innovation in the San Diego region. He was captivated by the possibilities that innovation provides in improving the world in which we live.

Duane was involved in numerous charitable, political, business, educational and scientific research organizations and he was intimately engaged in many fundraising events and projects. In addition to supporting organizations, Duane was always available to talk to people individually, particularly young people, learning of their passions and goals, and giving advice on how to accomplish those goals.

Duane was a controlled dreamer and envisioned big ideas. He had a remarkable ability to recognize and articulate a path toward resolution of diverse issues in a reasoned and intelligent manner. Duane was the consummate collaborator, always seeking the best outcome without regard to ego or personal gain.

His spirit lives on in each recipient of the Duane Roth Achievement Award, as those individuals embody Duane's passion and commitment to innovation and the people they serve.

“Duane Roth had a reputation for always finding ways to overcome obstacles, and this award serves as a way to honor his memory by recognizing leaders in the oncology space who share this spirit.”

Ida Deichaite, Ph.D.
UC San Diego Moores Cancer Center

2021



DENNIS CARSON, M.D.

Professor Emeritus of Medicine, University of California San Diego

Dennis Carson, M.D., the 2021 Recipient, has spent his career discovering new targets, and developing therapeutics, in the fields of oncology, autoimmune and infectious diseases. He developed, from bench to bedside, the drug cladribine (Leustatin®) for hairy cell leukemia (HCL). Developed in 1993, the breakthrough therapy for the then-fatal blood cancer, put more than 90 percent of HCL patients into long-lasting remissions. It acts like a purine nucleoside agent, which prevents cells from making DNA and RNA, and can selectively kill hairy cell leukemia cells. Heralded as a breakthrough cure, cladribine remains the first-line treatment for HCL and is also tapped as a treatment for B-cell chronic lymphocytic leukemia and multiple sclerosis.

Now researchers have expanded its use to another deadly form of leukemia, drug-resistant T-cell prolymphocytic leukemia. Cladribine was a trailblazer at the time of its introduction over 20 years ago.

Dr. Carson has held leadership roles at the UCSD Stein Institute and served as Director for the UCSD Moores Cancer Center. He has founded multiple biotechnology companies in the vaccine and oncology areas. Currently, he is involved in multiple translational oncology programs that have led to new clinical trials. His recent work leading a large development project funded by California Institute for

Regenerative Medicine, has brought from bench to bedside, a monoclonal antibody against cancer stem cells. At this stage in his career, he has focused his expertise and experience to help younger basic and clinical scientists in the difficult process of drug discovery and development.

Dr. Carson developed the drug cladribine (Leustatin®) for hairy cell leukemia (HCL), the breakthrough therapy for the then-fatal blood cancer that put more than 90 percent of HCL patients into long-lasting remissions.

2020



SCOTT GOTTLIEB, M.D.

23rd Commissioner of the Food and Drug Administration (FDA); Resident Fellow at the American Enterprise Institute (AEI); Partner at New Enterprise Associates (NEA)

Scott Gottlieb, M.D., is a physician and was the 23rd Commissioner of the U.S. Food and Drug Administration. His work focuses on advancing public health through innovative approaches to improving medical outcomes, reshaping healthcare delivery, and expanding consumer choice and safety. He is a resident fellow at the American Enterprise Institute and a partner at the venture firm New Enterprise Associates.

Dr. Gottlieb is an advocate for advancing the health of patients, promoting access, and driving innovation. Historic advances in new policy distinguished his tenure at the FDA, in addition to a record number of approvals of novel drugs, medical devices, and generic medicines. Under his leadership, the FDA advanced new frameworks for modern, safe and effective oversight of gene therapies, cell based regenerative medicines, targeted drugs, and digital health devices. The agency also implemented reforms to standardize drug reviews, improved use of real-world evidence, and promoted policies to reduce death and disease from tobacco.

Dr. Gottlieb is an advocate for advancing the health of patients, promoting healthcare access, and driving innovation.

Previously, Dr. Gottlieb served as the FDA's Deputy Commissioner for Medical and Scientific Affairs and before that, as a Senior Adviser to the Administrator of the Centers for Medicare and Medicaid Services. He is widely published in medical journals and periodicals, including The Wall Street Journal, The New York Times, and The Washington Post, and held editorial positions on the British Medical Journal and the Journal of the American Medical Association. Fortune Magazine recognized him as one of the "World's 50 Greatest Leaders" in 2018 and 2019, and Time Magazine named him one of its "50 People Transforming Healthcare in 2018."

Dr. Gottlieb was a practicing hospitalist and is an elected member of the National Academy of Medicine.

2019



SUSAN BAND HORWITZ, PH.D.

Albert Einstein College of Medicine

Susan Band Horwitz, Ph.D. attended Bryn Mawr College, then received her Ph.D. in Biochemistry from Brandeis University. She was a postdoctoral fellow in the Departments of Pharmacology at Tufts Medical School, Emory Medical School and the Albert Einstein College of Medicine. She joined the faculty at Albert Einstein in 1970 and is presently a Distinguished Professor and the Rose C. Falkenstein Professor of Cancer Research.

Dr. Horwitz has a continuing interest in natural products as a source of new drugs. Her contributions span several decades of research and encompass agents which have served as prototypes for some of our most important drugs. Dr. Horwitz' most seminal research contribution has been in the development of Taxol[®], a drug isolated from the yew tree, *Taxus brevifolia*.

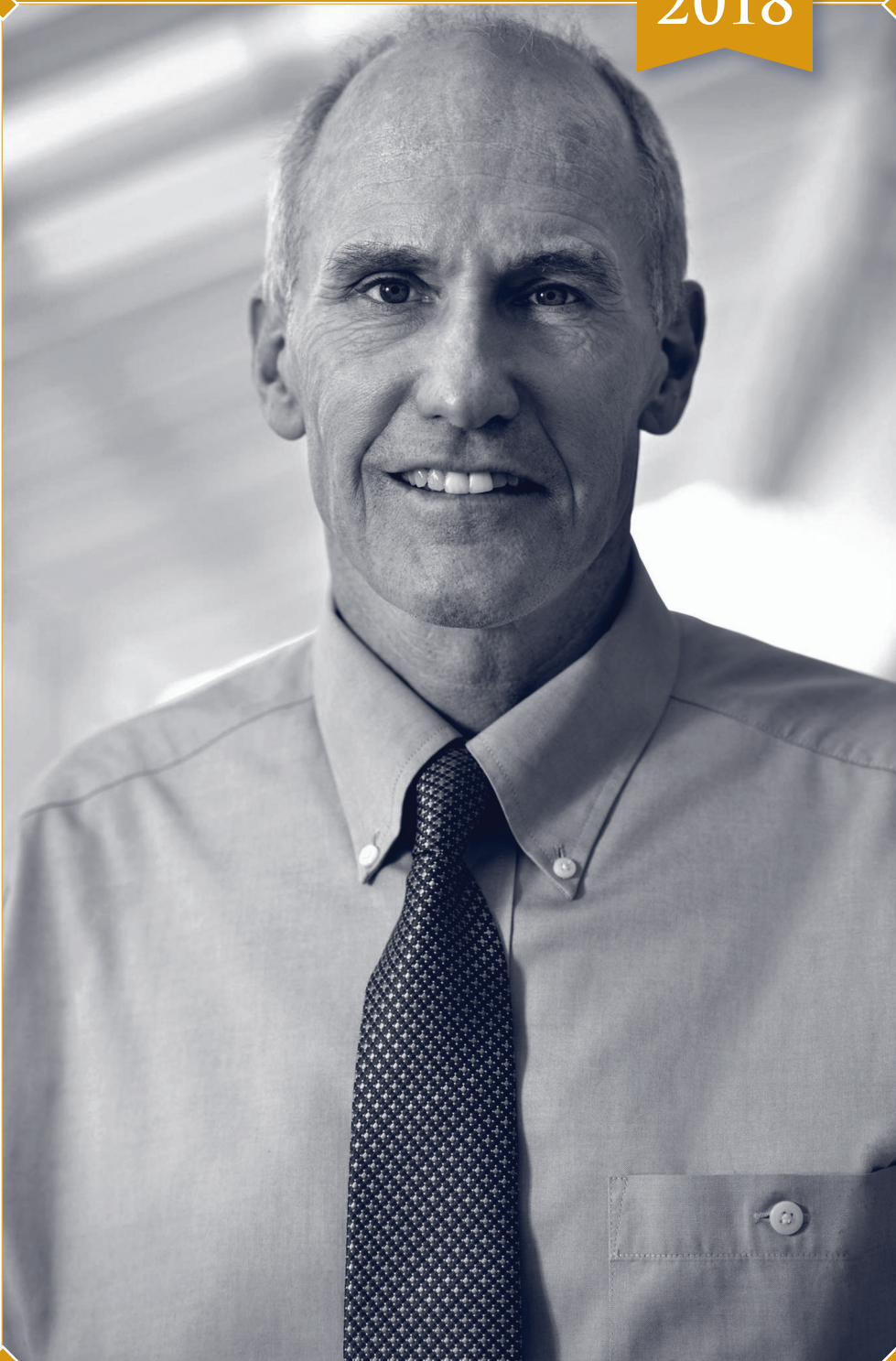
Although no one was interested in Taxol[®] when she began her studies, today it is an important antitumor drug that has been given to over a million patients. Dr. Horwitz, her students and postdoctoral fellows made the discovery that Taxol[®] had a unique mechanism of action and suggested that it was a prototype for a new class of antitumor drugs.

Dr. Horwitz has received numerous honors and awards including the C. Chester Stock Award from Memorial Sloan Kettering Cancer Center, the Warren Alpert Foundation Prize from Harvard Medical School, The Bristol-Myers Squibb Award for Distinguished Achievement in Cancer Research, The American Cancer Society's Medal of Honor and the AACR Lifetime Achievement Award in Cancer Research.

From 2002-2003, Dr. Horwitz served as president of the American Association of Cancer Research. She is a member of the National Academy of Sciences, the National Academy of Medicine, the American Academy of Arts and Sciences and the American Philosophical Society.

Although no one was interested in Taxol[®] when Dr. Horwitz began her studies, today it is an important antitumor drug that has been given to over a million patients.

2018



CARL JUNE, M.D.

University of Pennsylvania School of Medicine

Carl June, M.D., was the 2018 recipient of the Duane Roth Achievement Award. He is a leading pioneer of T-cell treatments, and his accomplishments have ushered in a new era in immunotherapy that transformed the field as a whole.

In 2011, Dr. June's research team published findings detailing a new therapy in which patients with refractory and relapsed chronic lymphocytic leukemia were treated with genetically engineered versions of their own T cells - giving the patient's own immune system the lasting ability to fight cancer. In 2012, Novartis and the University of Pennsylvania entered an agreement to further develop this therapy, eventually leading to the first FDA approval of a therapy based on gene transfer, Kymriah, in 2017. In addition, his foundational work has sparked a new field of research around these "CAR-T cell therapies" that has transformed the landscape in immunoncology. Amidst his success in delivering unique treatment options to the patient, Dr. June believes that there is much more work to be done in the immunotherapy space.

Dr. June is the director of translational research and a professor of pathology and laboratory medicine in University of Pennsylvania's Abramson Cancer Center and Perelman School of Medicine. He maintains a research laboratory at the university. The June Lab studies various mechanisms of lymphocyte activation that relate to immune tolerance and adoptive immunotherapy for cancer and chronic infection.

Dr. June is a leading pioneer of T-cell treatments, and his accomplishments have ushered in a new era in immunotherapy that transformed the field as a whole.

2017



SANDRA HORNING, M.D.

Executive Vice President, Global Development and Chief Medical Officer, Genentech

Sandra Horning, M.D., Chief Medical Officer and Executive Vice President of Global Development for Genentech, was named the 2017 recipient of the Duane Roth Achievement Award. She is a champion of personalized therapies and she led the development and launch of multiple cancer therapies.

Dr. Horning, a cancer survivor, has focused much of her work on developing new treatments for lymphoma, a cancer that affects the immune system, including leading clinical trials that eventually resulted in new, approved drug treatments for patients. In addition to bringing new treatments forward, she is a champion for the importance of an individual being mindful of his or her family and anticipating survivorship issues, such as fertility, secondary malignancies, cardiopulmonary and endocrine side-effects.

Dr. Horning has had a distinguished career in cancer treatment and research, first as a practicing oncologist, investigator and professor at Stanford University for 25 years, then at the San Francisco-based biotech company, Genentech, where multiple cancer therapies were approved under her leadership. Dr. Horning also served as the American Society of Clinical Oncology (ASCO) president from 2005 to 2006.

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2016



DENNIS SLAMON, M.D., PH.D.

UCLA Jonsson Comprehensive Cancer Center

Dennis Slamon, M.D., Ph.D., was named the 2016 recipient of the Duane Roth Achievement Award. Dr. Slamon stood at the forefront of targeted therapy at a time when the technology was not supported by his peers. Despite facing much resistance, Dr. Slamon and his team at UCLA played an integral role in the development of HERCEPTIN (trastuzumab) – the first molecularly targeted therapy for breast cancer. It was approved by the FDA in 1998.

Dr. Slamon dedicated much of his career to the creation of targeted therapies, despite opposition faced around the concept in its earliest days. His latest success involves the development of IBRANCE

(palbociclib), granted FDA approval in 2017 for use in combination with letrozole for the treatment of postmenopausal women with estrogen receptor (ER)-positive, human epidermal growth factor receptor 2 (HER2)-negative advanced breast cancer as initial endocrine-based therapy for their metastatic disease. The Pfizer study was conducted in collaboration with the Jonsson Comprehensive Cancer Center's Revlon/UCLA Women's Cancer Research Program, led by Dr. Slamon.

Dr. Slamon serves as director of Clinical/Translational Research and director of the Revlon/UCLA Women's Cancer Research Program at the UCLA Jonsson Comprehensive Cancer Center. He is a professor of medicine, chief of the Division of Hematology/Oncology and executive vice chair for research for UCLA's Department of Medicine. Dr. Slamon has spent his career working on therapies targeting various genes and ensuring that advanced breast cancer patients across the globe can access them.

Despite facing much resistance, Dr. Slamon and his team at UCLA played an integral role in the development of HERCEPTIN – the first molecularly targeted therapy for breast cancer. It was approved by the FDA in 1998.

2015



BRIAN DRUKER, M.D.

OHSU Knight Cancer Institute

Brian Druker, M.D., was named the 2015 recipient of the Duane Roth Achievement Award. Dr. Druker's research focuses on activated tyrosine kinases with an emphasis on signal transduction, cellular transformation and the application of this knowledge to cancer therapies.

Early in his career, tyrosine kinases were not considered proper therapeutic targets and he received tremendous backlash for pursuing these targets for cancer drug development.

Dr. Druker's tenacity was instrumental in developing imatinib, a specific inhibitor of the ABL protein, tyrosine kinase, that has proven to be an effective therapeutic agent in chronic myeloid leukemia (CML). After completing a series of preclinical studies, Dr. Druker spearheaded the highly successful clinical trials of imatinib for CML. Imatinib is currently FDA approved for CML and gastrointestinal stromal tumors (GIST). Dr. Druker's role in the development of imatinib and its application in the clinic has impacted countless cancer patients.

Dr. Druker's tenacity was instrumental in developing imatinib, a specific inhibitor of the ABL protein, tyrosine kinase, that has proven to be an effective therapeutic agent in chronic myeloid leukemia.

Dr. Druker is director of the Oregon Health & Science University (OHSU) Knight Cancer Institute, JELD-WEN chair of leukemia research at OHSU and an investigator of the Howard Hughes Medical Institute.

2014



LAURA ESSERMAN, M.D., MBA

UCSF Helen Diller Family Comprehensive Cancer Center

Laura Esserman, M.D., MBA, was named the inaugural recipient of the Duane Roth Achievement Award in 2014. Dr. Esserman is widely recognized for envisioning and implementing new clinical trial design in oncology that forced a shift in the industry. Through her lobbying efforts and ability to secure support from key industry members, she was able to successfully combat rigid trial design – thus allowing new treatment options to reach patients much faster.

Dr. Esserman's various research experience is vast. Her role as a principal investigator of the Biomarker Discovery Laboratory for the Early Detection Research Network (EDRN) led to the development of the ATHENA Breast Health Network, an integrated network across the University of California campuses and the Sanford Medical Center. The project followed 150,000 women through biopsy, diagnosis, treatment and follow-up in an effort to create an engine that provides and improves breast cancer prevention services for patients.

Dr. Esserman is a surgeon and breast cancer oncology specialist practicing at the UCSF Carol Franc Buck Breast Care Center where she has also held the position of director since 1996. She co-leads the Breast Oncology Program, the largest of the UCSF Helen Diller Comprehensive Cancer Center's multidisciplinary programs. She is a professor of surgery and radiology at UCSF and faculty at the UCSF Helen Diller Family Comprehensive Cancer Center where she founded the program in Translational Informatics. As part of this program, her research has focused on bioinformatics, medical and clinical informatics, systems integration, and clinical care delivery.

Dr. Esserman is widely recognized for envisioning and implementing new clinical trial design in oncology that forced a shift in the industry.

THE DUANE ROTH ACHIEVEMENT AWARD IS MADE POSSIBLE BY:

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The Duane Roth Legacy Foundation

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Contributions are Welcome

If you are interested in supporting the Duane Roth Achievement Award, please contact mccsymposium@ucsd.edu for more information.

Special recognition and gratitude...

to Ida Deichaite and Leisa Sutton of the UC San Diego Moores Cancer Center's Office of Industry Relations for their tireless efforts in championing the Duane Roth Achievement Award.

THE DUANE ROTH ACHIEVEMENT AWARD LOGO SYMBOLISM

The Duane Roth Achievement Award logo visually represents the characteristics and qualities of each and every recipient of this prestigious award. As a whole, the award logo conveys a spirit of hope, and the continual growth in the combined disciplines of medicine, science and innovation, while highlighting individually the most important characteristics of each award winner – perseverance, passion and commitment.



