

2022 Welch Conference



NEW LOCATION | NEW EXPERIENCE | OCTOBER 24–25, 2022

This in-person and live-streamed conference will feature the theme, “Molecules and Sculpted Light,” an exploration of light at the molecular level, in addition to the keynote address by Dr. Peter Hotez and virtual poster sessions welcoming young scientists from around the globe.

The conference will be held in the Grand Ballroom of **The Post Oak Hotel at Uptown Houston**, conveniently located minutes from The Galleria, Memorial Park, and dozens of restaurants and retail offerings.



W. E. MOERNER
Conference Chair,
Stanford University

Molecules and Sculpted Light

Light interacts with molecules in myriad ways producing the colors we see in the world around us, skin damage from sunshine, chemical transformations resulting in new molecules and more. The light produced by fluorescent molecules (like those found in day-glow socks) can be sculpted by optics which allows scientists to detect nanoscale properties of individual molecules such as the precise position of the molecule in three dimensions, how it is oriented with respect to other molecules, and the lifetime of its excited state. The conference explores the latest developments that exploit the use of sculpted light to develop novel technologies to explore the world at the molecular level.



**PETER HOTEZ,
M.D., PH.D.**
Dean, National School of
Tropical Medicine, Baylor
College of Medicine

New in 2022, the conference will feature a keynote address by Dr. Peter Hotez of Texas Children's Hospital and Baylor College of Medicine.

COVID-19 Vaccines: Science vs Anti Science

The Texas Children's Hospital Center for Vaccine Development is leading the development of new vaccines for poverty-related neglected diseases and COVID-19. Since May 2021, an estimated 200,000 unvaccinated Americans have died because they refused COVID-19 vaccines. They were victims of growing anti science aggression, which has now become a dominant and lethal social force and disease determinant in the U.S.



**CAROLYN R.
BERTOZZI**
Anne T. and Robert
M. Bass Professor
of Chemistry,
Stanford University

The 2022 Welch Award in Chemistry Lecture

Therapeutic Opportunities in Glycoscience

Cell surface glycans constitute a rich biomolecular dataset that drives both normal and pathological processes. Their “readers” are glycan-binding receptors that can engage in cell-cell interactions and cell signaling. Our research focuses on mechanistic studies of glycan/receptor biology and applications of this knowledge to new therapeutic strategies. Our recent efforts center on pathogenic glycans in the tumor microenvironment and new therapeutic modalities based on the concept of targeted degradation.

Virtual Poster Sessions

The Welch Foundation wants to hear about your research! For the first time, the Welch Conference will feature a virtual poster session inviting young scientists to present their research, answer questions, and engage with audiences from all over the world.



PRIZE FOR IMMUNOLOGY

REWARDING HIGH-RISK RESEARCH.
SUPPORTING EARLY-CAREER SCIENTISTS.
HELPING TO FIND CURES FASTER.
APPLY TODAY

Now accepting applications for the Michelson Philanthropies & Science Prize for Immunology.

The Michelson Philanthropies and Science Prize for Immunology focuses on transformative research in human immunology, with trans-disease applications to accelerate vaccine and immunotherapeutic discovery. This international prize supports investigators 35 and younger, who apply their expertise to research that has a lasting impact on vaccine development and immunotherapy. It is open to researchers from a wide range of disciplines including computer science, artificial intelligence/machine learning, protein engineering, nanotechnology, genomics, parasitology and tropical medicine, neurodegenerative diseases, and gene editing.

Application deadline: Oct. 1, 2022.

For more information visit:
www.michelsonmedicalresearch.org

#MichelsonPrizes



"The Michelson Philanthropies & Science Prize for Immunology will greatly impact my future work. As I am just starting my scientific career, it will illuminate my work, spark interest and support me to continue my research in this field."

Paul Bastard, MD, PhD,
Laboratory of Human Genetics of Infectious Diseases, Imagine Institute (INSERM, University of Paris), Paris, France; and The Rockefeller University, New York.

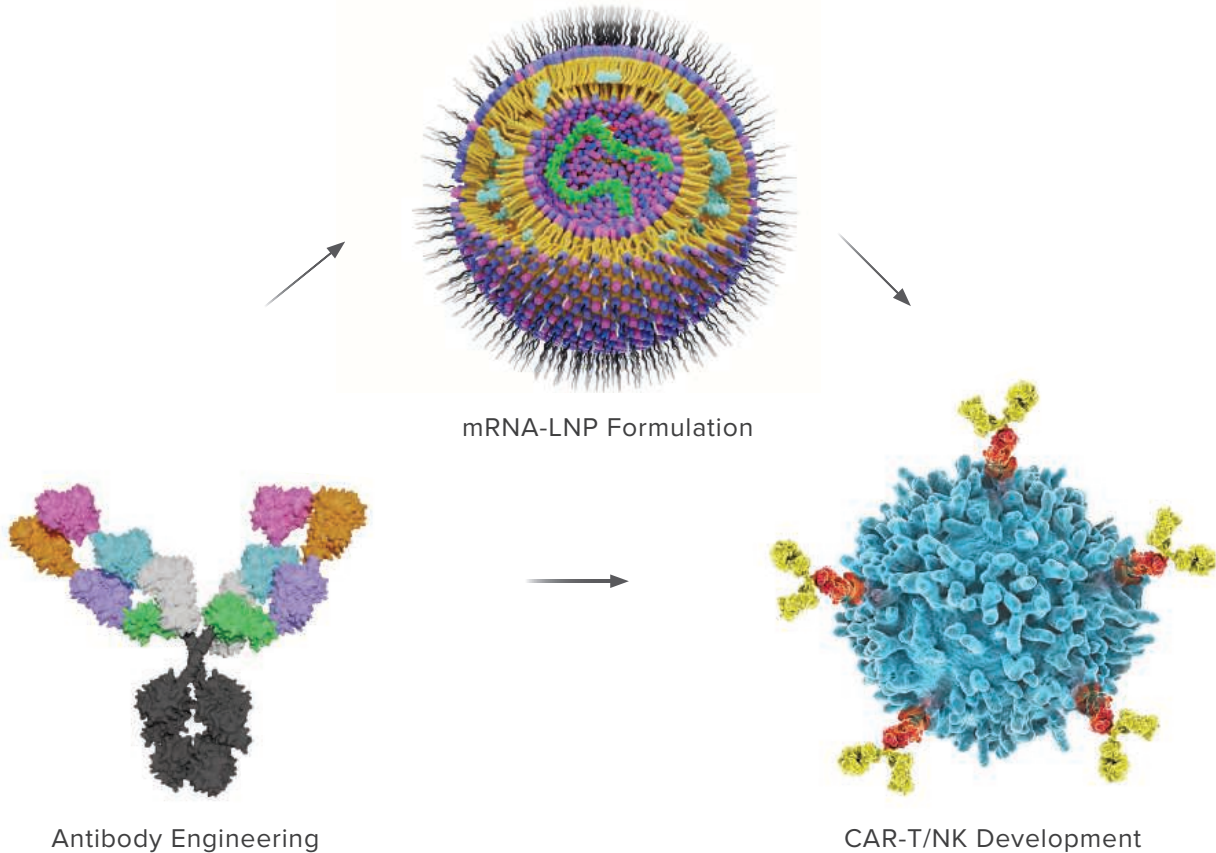
Dr. Bastard received the inaugural Grand Prize for his essay: "Why do people die from COVID-19: Autoantibodies neutralizing type I interferons increase with age."

**GRAND PRIZE:
\$30,000**

**FINALIST PRIZE:
\$10,000**

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- Immune Cell Engineering
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- TCR knockout by CRISPR

All products are for research use only

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