



THE LUNDQUIST
INSTITUTE

Research with reach.™



DONOR IMPACT REPORT

July 1, 2021 - June 30, 2022



A message from **DAVID MEYER, PhD**

President & CEO, The Lundquist Institute

On behalf of everyone at The Lundquist Institute (TLI), thank you for your commitment to advancing medical research.

Your generosity has helped improve and save the lives of so many. Your philanthropy empowers our investigators to develop new and more effective therapies for numerous, often fatal diseases. Gifts like yours are

leveraged many times over as they help fund pilot studies that lead to sponsored research and federal support, making a positive impact in our community and across the world.

I hope this inaugural Donor Impact Report provides you insight into how your collective support has benefited the research taking place here at the Institute over the past year.

FY 2022 Giving

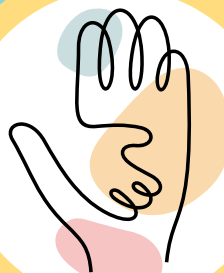
171

individuals, foundations,
and corporations made a
philanthropic gift



\$190,476

was the total giving
from first-time donors to
The Lundquist Institute



3

Lundquist Legends included
The Lundquist Institute
in their estate plans



THE LUNDQUIST INSTITUTE LITTLE EINSTEINS



The inaugural class of TLI's Little Einsteins "graduated" in the spring of 2022. With the support of donors such as the First Republic Foundation, we will be able to reach even more students in our surrounding – often under-resourced – communities.

INTRODUCING SCIENCE TO ELEMENTARY STUDENTS IN PUBLIC SCHOOLS

Your support has allowed us to launch TLI's Little Einsteins, an exciting program that introduces students to advanced topics in science. This new initiative is designed to expose elementary school students to science through a curriculum created by our graduate students, further extending our educational outreach.

The six-month program began in December 2021 with 11 students. In addition to learning how to use a microscope, the curriculum included advanced topics such

as cell biology, human anatomy, microbiology, and chemistry.

TRAINING THE NEXT GENERATION OF PULMONARY RESEARCHERS

TLI's Institute of Respiratory Medicine and Exercise Physiology received generous grants from the Johnny Carson Foundation and the Pulmonary Education and Research Foundation to support the training of the next generation of chronic obstructive pulmonary disease researchers. These grants provide early career scientists with an immersive training experience in

basic, translational, and clinical research settings — all devoted to advancing therapeutic strategies to address the physiological impacts of chronic disease on respiratory and physical function.



EXPLORING NEW WAYS TO TREAT DIABETES

Globally, more than 536 million individuals are suffering from diabetes. In 2021 alone, the disease caused more than 6.7 million deaths due to complications from strokes, COVID-19, kidney failure, and cancer.

Thanks to support from the Beatson Foundation, Eiji Yoshihara, PhD is investigating how human pancreatic β cells (responsible for making insulin in the body) proliferate and achieve long-term survival. If successful, this advancement would provide new resources for therapeutics in both Type 1 and Type 2 diabetes.

DEVELOPING NOVEL DEVICE TO SAVE INFANTS FROM RESPIRATORY DISTRESS SYNDROME

Philanthropic support has enabled Frans Walther, MD, PhD to develop a synthetic aerosolized lung surfactant and a non-invasive delivery device for use in infant respiratory distress



syndrome (RDS), a significant cause of neonatal mortality and morbidity. Newborns experiencing RDS must dramatically increase the effort to take each breath, due to lack of adequate, naturally occurring surfactant production in their lungs. This deficiency of lung surfactant leads to fatigue, episodes of apnea, hypoxia, wasting, and potentially death if untreated.

This research is part of Dr. Walther's multi-dimensional research project aimed at developing a synthetic lung surfactant to treat breathing problems in preterm and near-term infants.

- Surfactant is a mixture of fat and proteins made in the lungs
- Premature infants may be born before their lungs make enough surfactant
- Low amounts of surfactant lead to poor lung function, and potentially death if untreated


"The Institute is grateful for the support from our donors," said Dr. David Meyer, President and CEO of The Lundquist Institute. "This is the type of trailblazing and state-of-the-art


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We have been in the forefront of innovation in the field of lung surfactants since the 1980s


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research that we are known for, especially given that we have been in the forefront of innovation in the field of lung surfactants since the 1980s.”

For more information on giving to The Lundquist Institute, please contact:

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