

COLUMBIA LAB-TO-MARKET

ADVANCED MATERIALS PRIZE

WITH CORNING INCORPORATED

TEAM HONE

Our interdisciplinary team seeks to create micro- and nano-structures that can be used to understand and modify cellular behavior. Our proposed project uses micro-patterns to sensitively measure the metastatic potential of cancer cells. Working with Corning will help us to scale up this technology, enabling it to become a valuable research and diagnostic tool.

TEAM MEMBERS: Dr. James Hone, Dr. Evren Azeloglu, and Smiti Bhattacharya

TEAM KAM

Cell-based therapies are revolutionizing care of a range of diseases, including cancer and autoimmunity. Our team is developing materials that provide new capabilities for production of these living drugs.

TEAM MEMBERS: Dr. Lance Kam and Anna-Liisa Sepp

TEAM SCHUCK

Our team is developing advanced nanomaterials aimed at democratizing molecular-scale imaging and sensing, ultimately enabling the discovery of hidden cellular structures and accelerating disease treatment. Our nano-probes will allow broad access to super-resolution technology that today is prohibitively complex and costly for most researchers.

TEAM MEMBERS: Dr. P. James Schuck and Emma Xu

TEAM SHI

Our project will tackle the world's rapidly worsening climate crisis and challenges by developing advanced material for direct air capture of CO₂ to close the carbon cycle.

TEAM MEMBERS: Dr. Xiaoyang Shi

