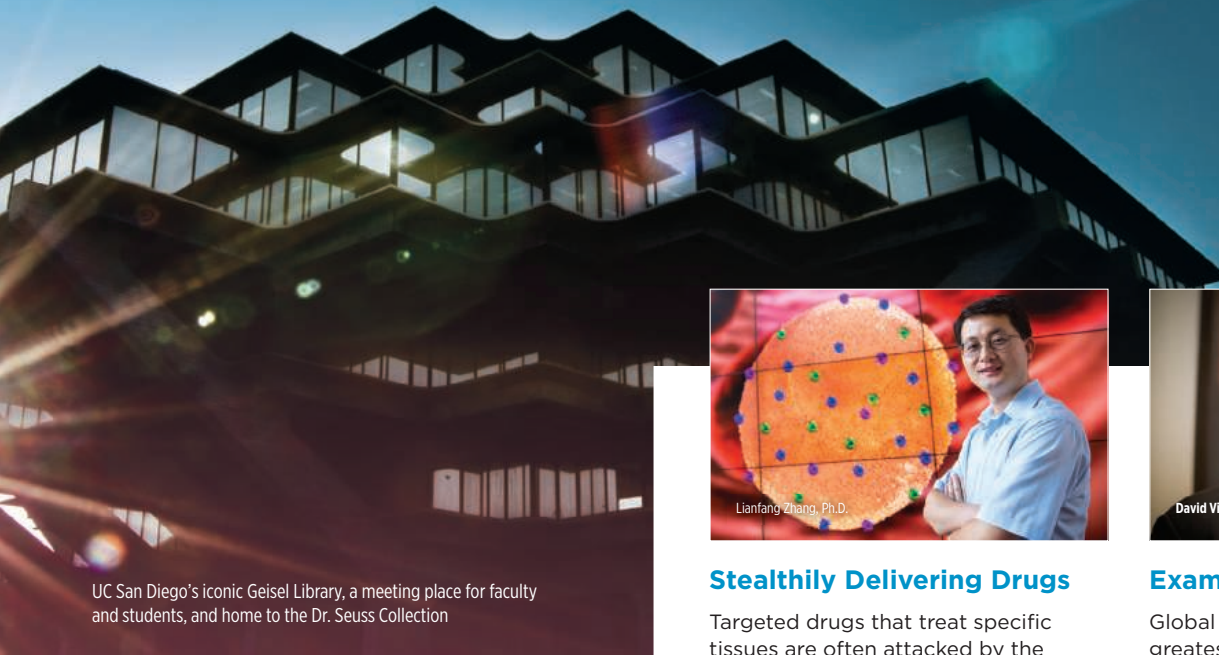


Defining the Future of the  
Public Research University

# UC San Diego

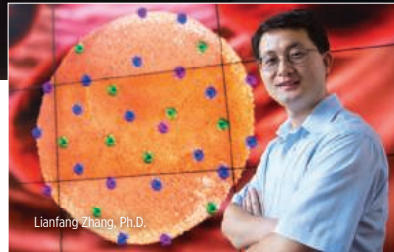
**#5** for total R&D  
expenditures  
among U.S.  
universities



UC San Diego's iconic Geisel Library, a meeting place for faculty and students, and home to the Dr. Seuss Collection

## Breakthroughs to Better Our World

From its inception, the University of California, San Diego has attracted leading scholars with an entrepreneurial spirit and a penchant for risk-taking. The freedom to cross boundaries and to create new disciplines fuels breakthrough research with global impact. Our visionaries are looking for the next discoveries that will benefit people around the world in all walks of life.



Lianfang Zhang, Ph.D.

### Stealthily Delivering Drugs

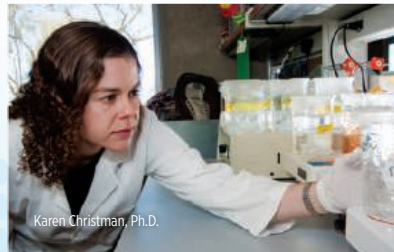
Targeted drugs that treat specific tissues are often attacked by the body's immune system. **Lianfang Zhang's** research group approaches the problem from an engineering perspective and bypasses the biology. They fool the immune system by using natural red blood cell membranes to camouflage nanosponges that deliver drugs and soak up toxins.



David Victor, Ph.D.

### Examining Climate Policy

Global warming is one of today's greatest challenges and international policies to cut emissions are overdue. **David Victor's** book *Global Warming Gridlock* explains why the world hasn't made much diplomatic progress and explores new, effective strategies. His research has produced a roadmap to a lower carbon future through bottom-up initiatives at the regional, national and global level.



Karen Christman, Ph.D.

### Mending Damaged Hearts

There is no established treatment for repairing the damage to cardiac tissue caused by the 785,000 new heart attack cases each year—yet. **Karen Christman's** lab has developed a new injectable hydrogel that encourages cells to repopulate areas of damaged tissue, and to preserve heart function by forming a scaffold to repair tissue and increase muscle.



Teddy Cruz

### Rethinking Space

**Teddy Cruz** is reimagining the way we think about architecture and urban design. Renowned for his research on the Tijuana-San Diego border, Cruz creates a humane vision that breaks down cultural barriers, while exploring the social complexity and richness of public and private space.

**#1** for positive impact  
on the nation  
-Washington Monthly

UC San Diego

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