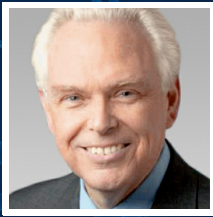


# Exploring the Biology of Neural Disorders



**William Mobley MD, PhD**  
Distinguished Professor and Chair, Department of Neurosciences

## CURRENT RESEARCH

### Uncovering the biological shortcomings in Down's syndrome and Alzheimer's disease

Dr. William Mobley of the Department of Neuroscience at the University of California, San Diego is exploring important new avenues by which to understand the normal brain and the way it is impacted by Alzheimer's disease and Down syndrome. His work is leading to new treatments and a better understanding of the biology behind these disorders. It is widely accepted that his laboratory leads the field in pursuing these conditions intelligently and aggressively, and they continue to produce outstanding and novel results. They are the largest lab dedicated to these pursuits, with the most researchers, and are one of very few labs whose focus is on the transport of trophic signals in these disorders. Their research is unique in that they explore the biology behind what goes wrong in individuals suffering from these conditions and how they can fix it - they have already made tremendous contributions in this narrow but important niche. Down syndrome is a condition that affect the quality of life of individuals, and Alzheimer's is a disease that can drastically limit the lifestyle of individuals who have lived a previously full and healthy life. Uncovering therapies that reduce or reverse the effects of these challenges is an important medical focus, and one Dr. Mobley is at the forefront of attacking.

Within the brain, there are proteins released by neurons (brain cells) to help one another differentiate, grow, function, and thrive. These proteins are intended to weld neural circuits together and allow neurons to communicate, with one neuron releasing a signal and that signal binding to another neuron. In normal cells, such as a skin cell, the distance that signal needs to travel may be only a few microns (...)

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## AFFILIATION

 University of California, San Diego

## EDUCATION

- Ph.D., Neuro- and Biobehavioral Sciences, 1974, Stanford University
- M.D., 1976, Stanford University
- B.S., in Zoology and Chemistry, 1970, University of Nebraska

## AWARDS

- Dr. William Cohen Researcher of Distinction Award, 2015
- Hope and Courage Award, 2014
- Health Hero, 2012
- Congressional Record: Award in recognition of contribution to Down syndrome - Pete Sessions (House of Representatives), 2011
- International Sisley-Jérôme Lejeune Prize, 2011
- and 2 more...

## RESEARCH AREAS

Life Science, Genomics / Congenital, Neurological / Cognitive, Neurological / Cognitive

## FUNDING REQUEST

Your contributions will enable Dr. Mobley to explore new ways of thinking about treatments for patients with Alzheimer's disease and Down syndrome. There is a need to take certain calculated risks that apply new thinking to how we approach and defeat these conditions; current efforts are unsatisfying, yet we are close to new breakthroughs. Your contributions will enable Dr. Mobley to utilize new approaches and potentially discover novel therapies.