

**UCDAVIS**  
**HEALTH**

Eye Center

# PUBLICATION LISTING

1954 - 2019



# 50 YEARS *of Vision Research*

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## A Prologue

What distinguishes the practice of academic ophthalmology from community clinical care is the sphere of inquiry, the discovery of new insights into how vision works, how diseases of the eye disrupt visual function, and ultimately, how our basic understanding of the eye in health and disease leads to the translation of basic science into clinical care.

The scientific opus of UC Davis has developed over half a century in parallel to the growth of the department and the university. At its outset fifty years ago, the Department of Ophthalmology was a small clinical unit in a fledgling medical school. Decade after decade, new creative minds were recruited to the faculty, and the residency training program became ever more sophisticated.

John L. Keltner, M.D. had the vision of pairing clinicians with basic scientists – an effort that stimulated multiple creative collaborations and led to many major contributions to the scientific literature of ophthalmology.

Davis became the proving ground for automated visual field testing, for the definition of cancer-associated retinopathies, and for a deeper understanding of corneal disease. With time, UC Davis gave birth to new concepts of how we understand the role of intraocular pressure in glaucoma and the relationship of pressure measurement to other parts of the eye. The arrival of John S. Werner, Ph.D., brought high-resolution imaging to the forefront of the research effort, and this has blossomed into an extraordinary complex of detailed imaging techniques that are deepening our understanding of visual physiology in health and disease.

Now in the era of genetic engineering and stem cell technology, our clinician-scientists are plumbing the depths of gene editing and are employing autologous stem cells for the treatment of retinal disease.

In the background of these discoveries, there is the unique triad that renders UC Davis a limitless research powerhouse: a top-30 School of Medicine, the world's finest School of Veterinary Medicine, and the California Primate Center. Under the leadership of Paul FitzGerald, Ph.D., the Center for Vision Science has grown on the Davis campus, successfully marshalling the talents of scientists from many disciplines tangent to vision to create a vision science community unparalleled in the nation.

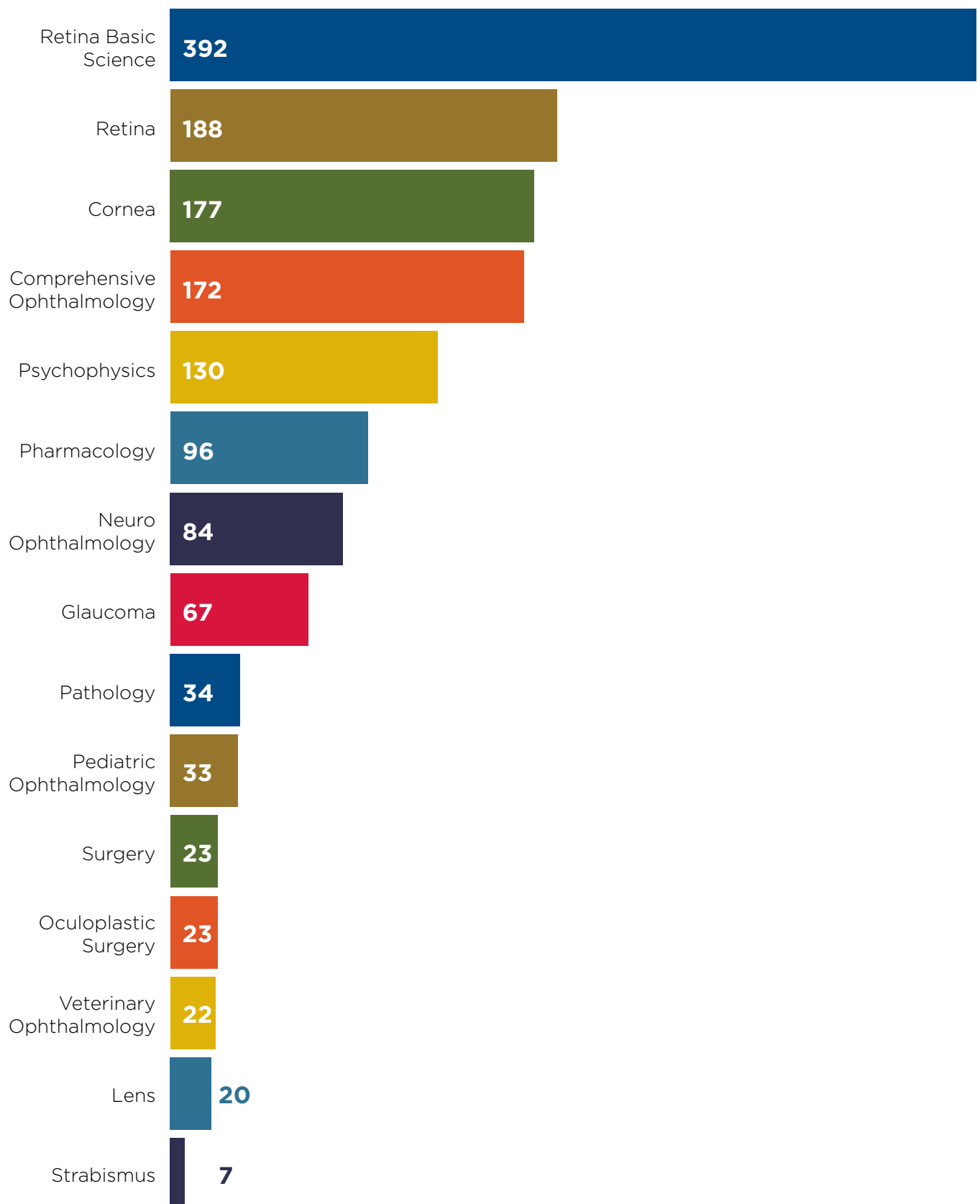
Today, UC Davis stands on the brink of exciting new discovery, utilizing the many resources of both our Davis and Sacramento campuses. The papers listed in this booklet are just the prologue to a future of important investigation and innovation. As we look back over the past 50 years, our thoughts should turn forward to the next century of discovery and what this will do for medical science and for our patients.



Mark J. Mannis, M.D., FACS  
Chairman, UC Davis Department of Ophthalmology and Vision Science

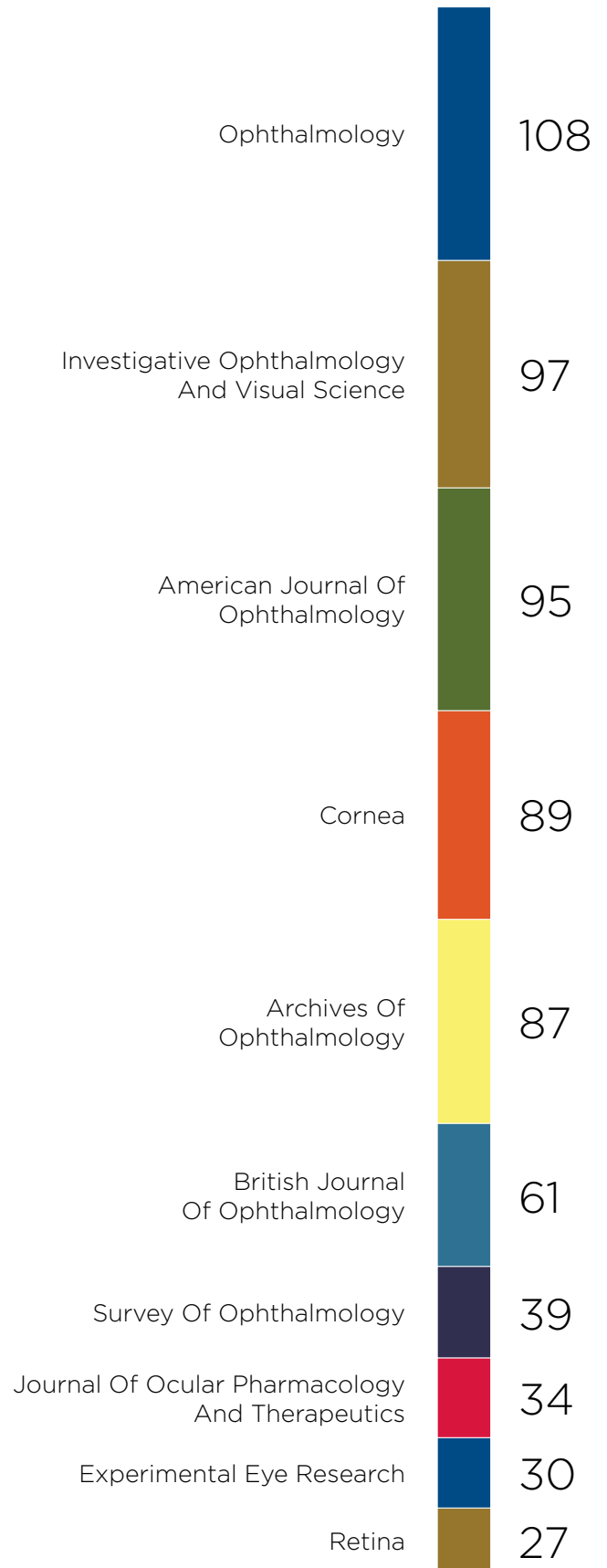
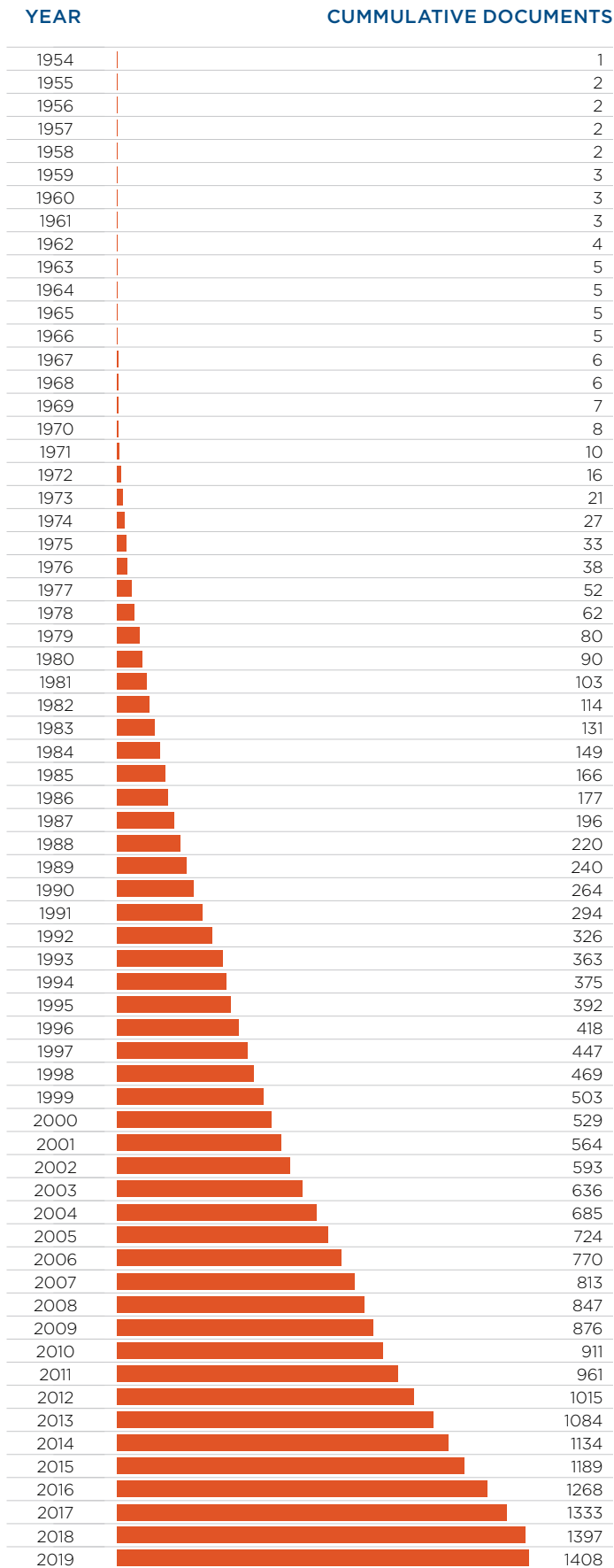


*We extend our sincere appreciation to  
John S. Werner, Ph.D.,  
for developing this 50-year collection  
of the vision science publications  
from UC Davis.*

Publications by **Subspecialty****TOP 15**

## Sum Documents Per Year

## Publications by Source



# Documents of **Type**

● Article	1166
● Review	93
● Letter	52
● Editorial	33
● Note	27
● Short Survey	19
● Conference Paper	18



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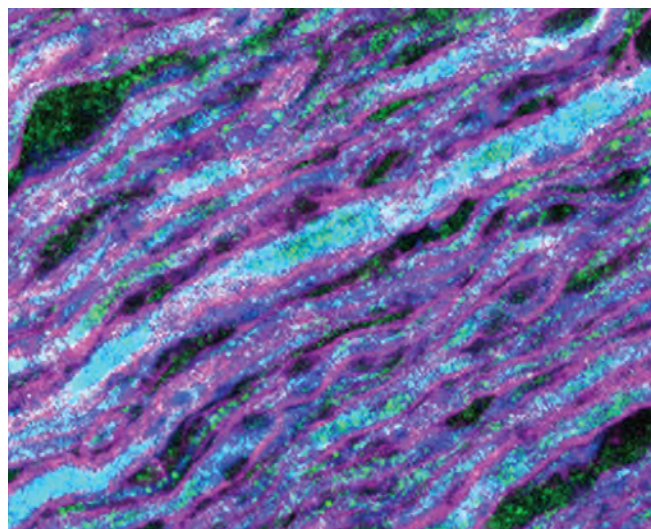
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The UC Davis vision science laboratory provided the first-ever evidence that the protein pCaMKII regulates the speed at which these signals travel and the first-ever visualization of pCaMKII in individual optic nerve fibers. The cyan color (flanked by magenta) illustrates this localization in a high magnification view of a length-wise slice through an optic nerve.

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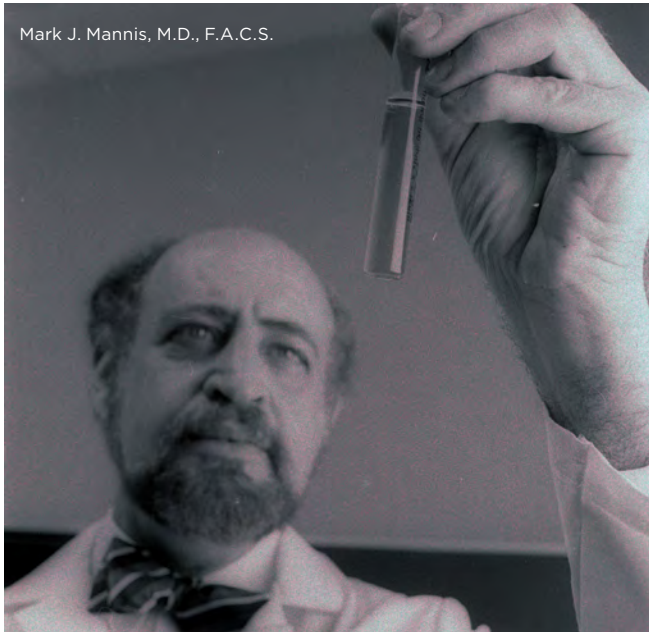


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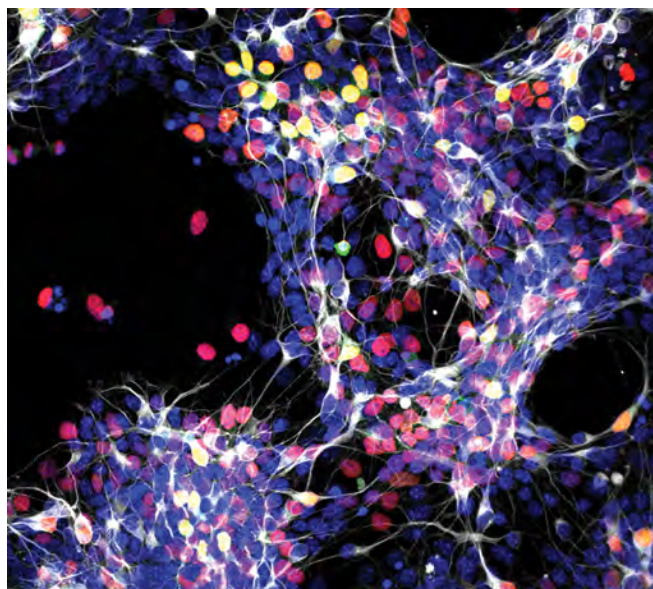
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Neurons in culture and transfected with RNA (green and red) and co-stained with an antibody to label developing neurons (white) as well as DAPI to label DNA (blue). Photo provided by Anna La Torre, Ph.D.

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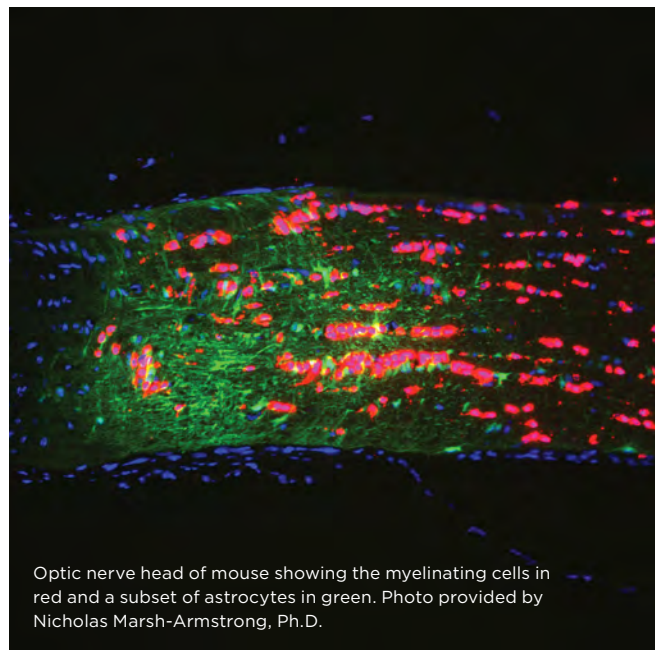
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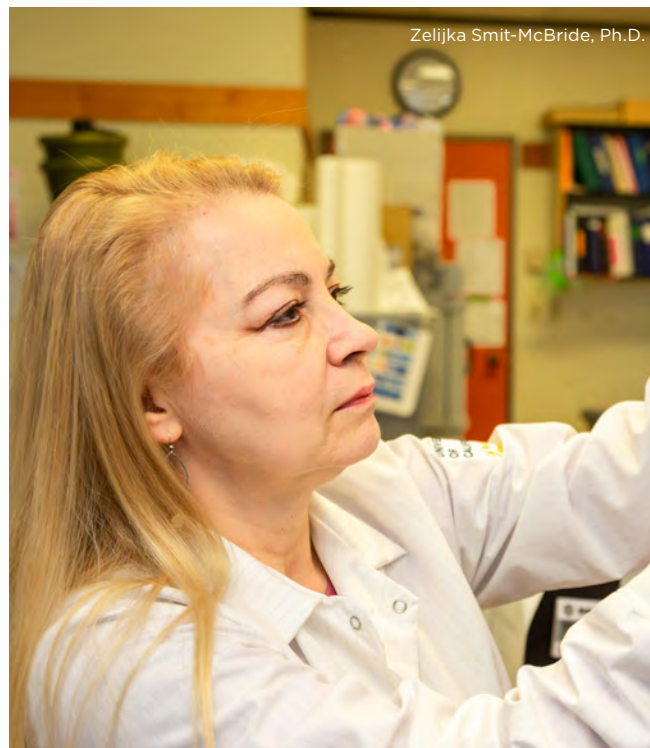
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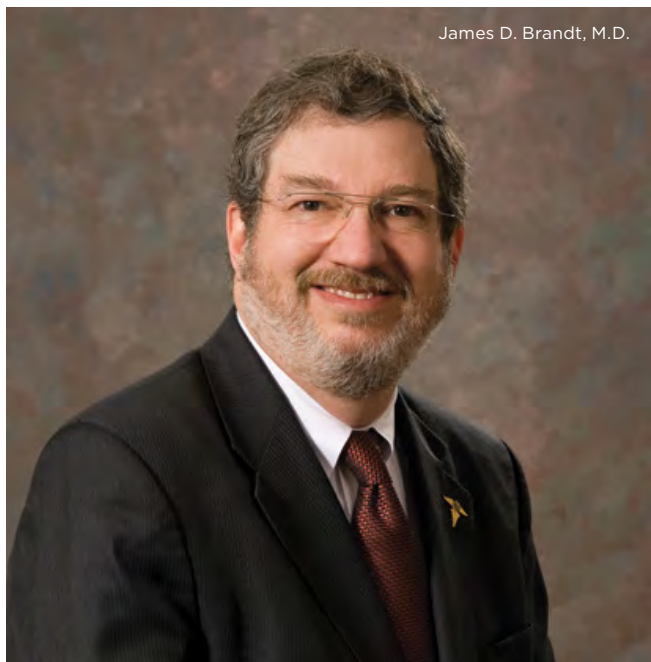
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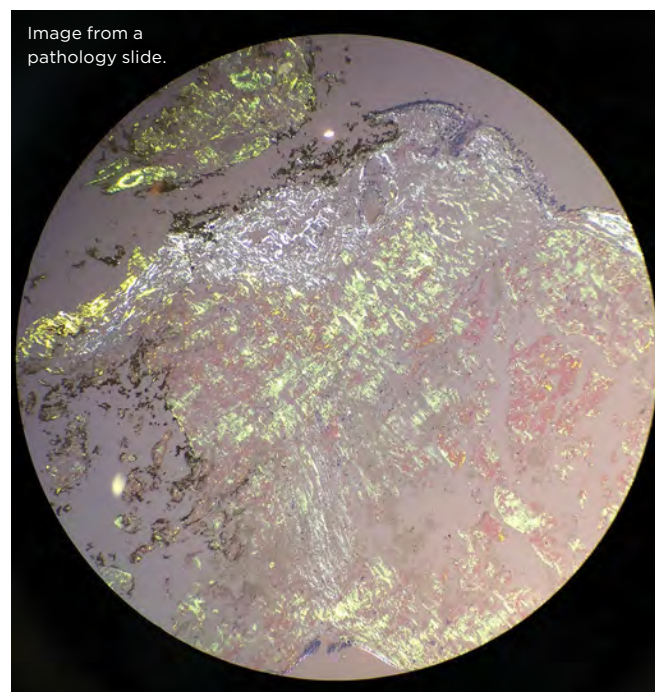
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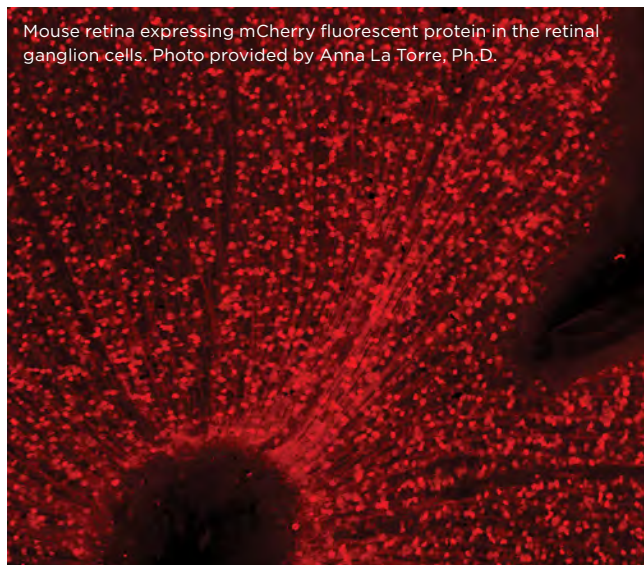
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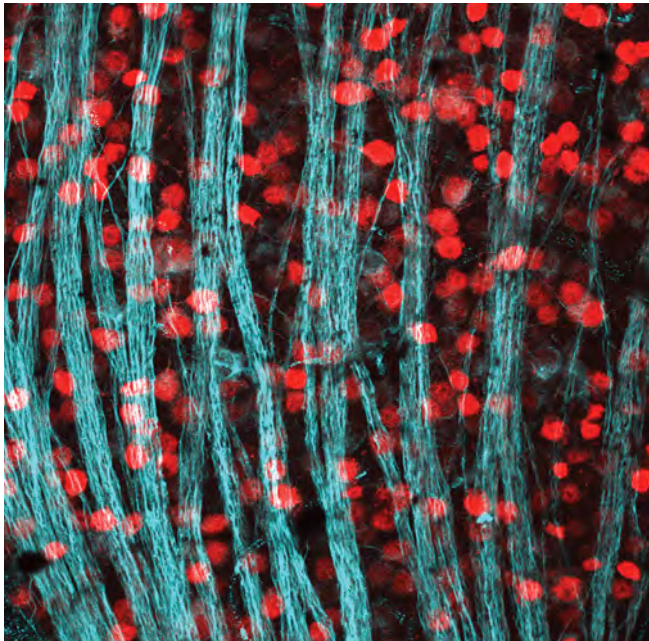
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Retinal ganglion cells labeled with mCherry fluorescent protein (red) and co-stained with an antibody that labels their axons (teal). Photo provided by Anna La Torre, Ph.D.

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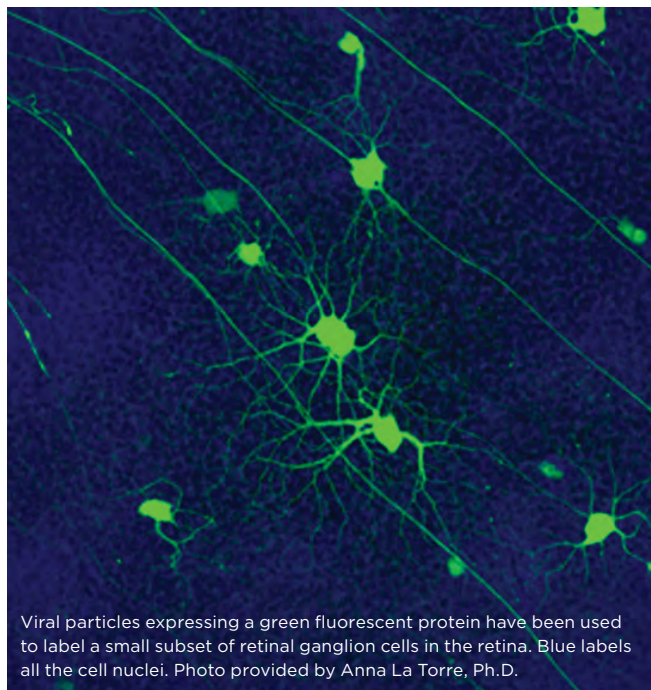
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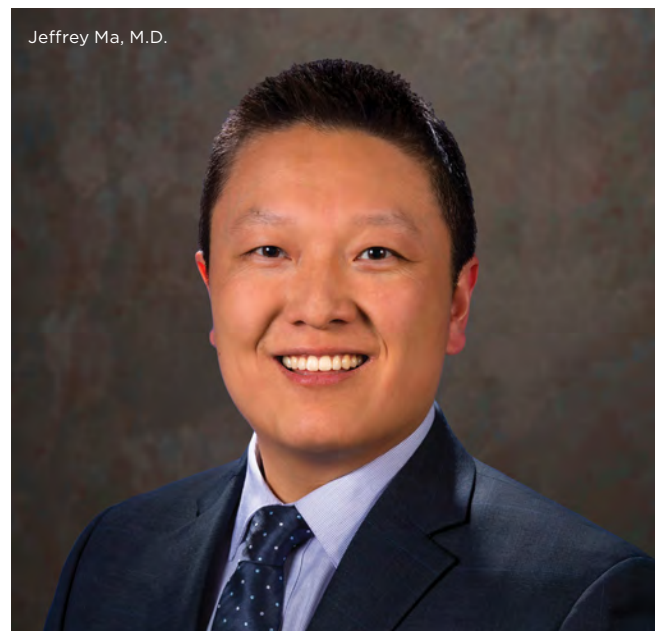
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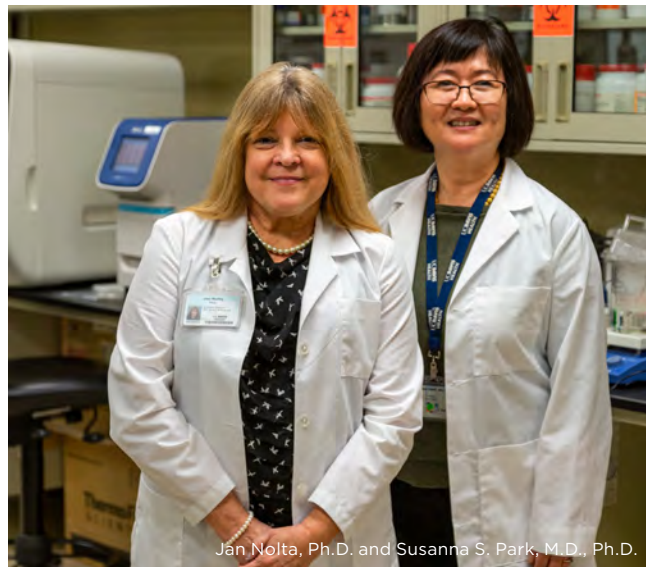
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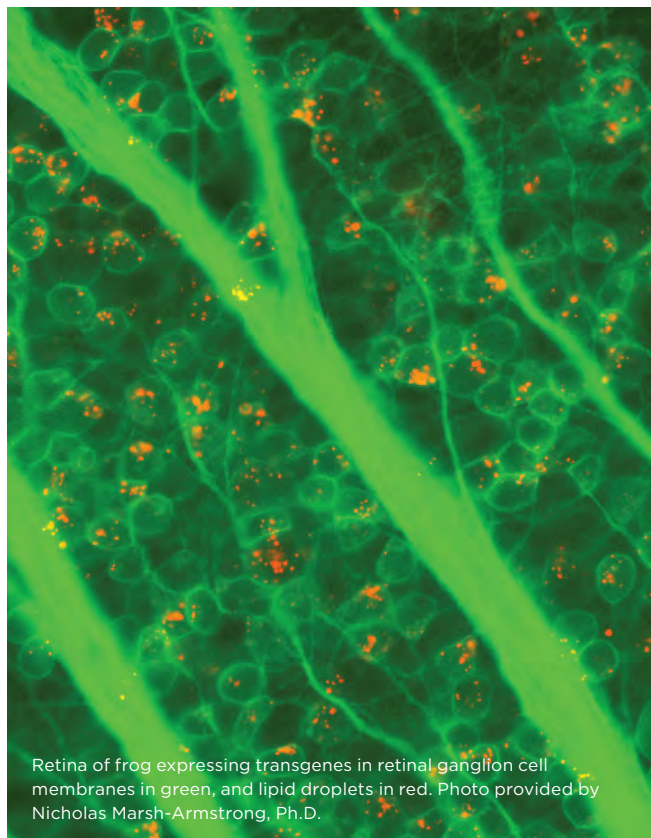
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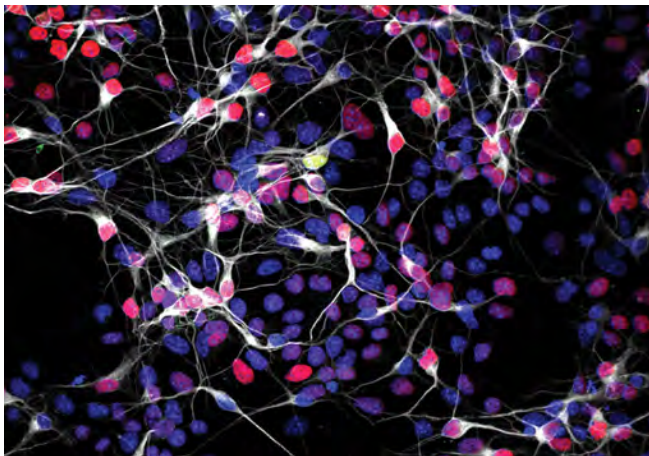
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Neurons in culture and transfected with RNA (green and red) and co-stained with an antibody to label developing neurons (white) as well as DAPI to label DNA (blue). Photo provided by Anna La Torre, Ph.D.

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Dr. Sara Thomasy hosts Drs. Cameron Whittaker and Kelly Caruso who travelled from their clinic in Sydney, Australia to teach the first ever canine Descemet's stripping endothelial keratoplasty lab. Also pictured are trainees Drs. Ann Cooper and Soohyun.

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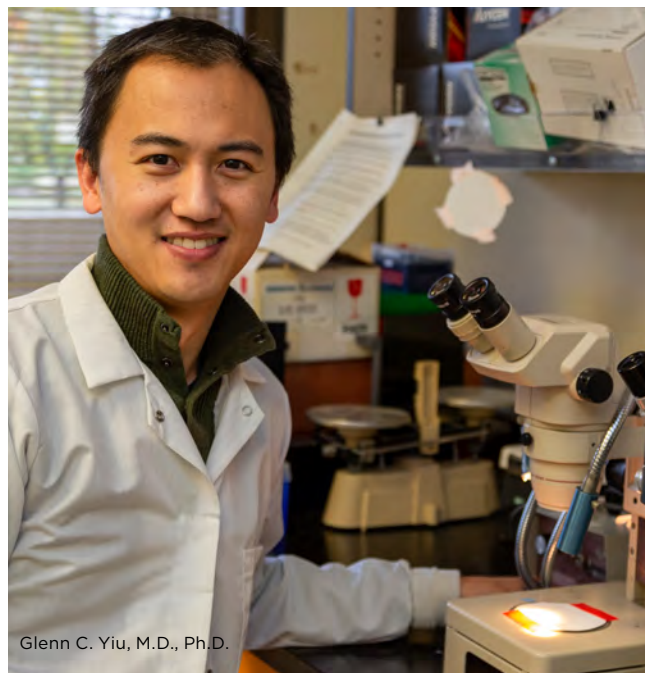
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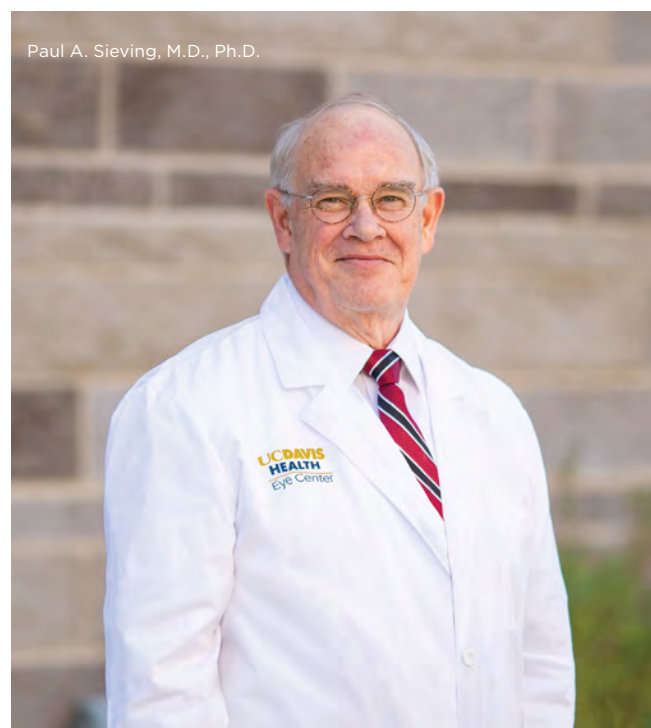
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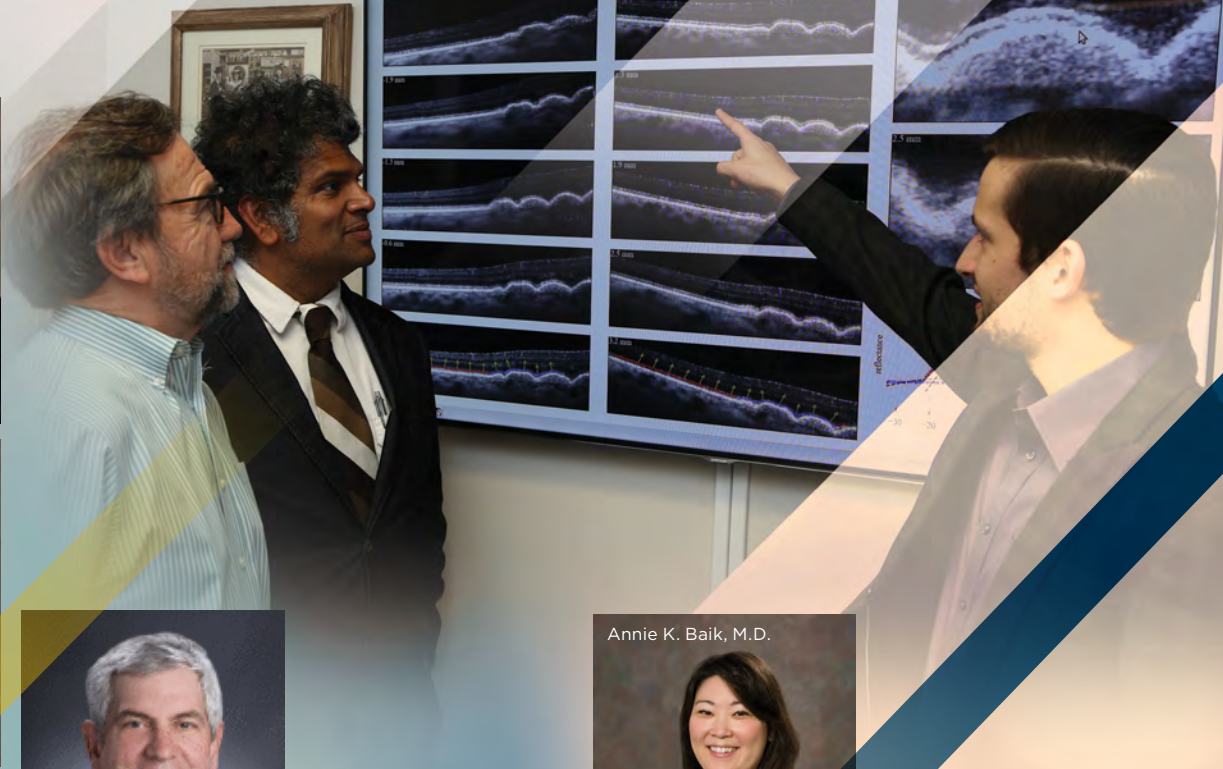
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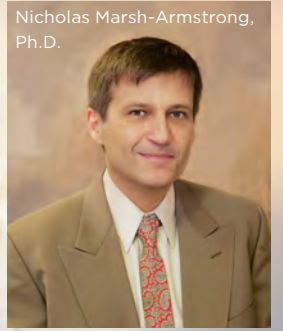
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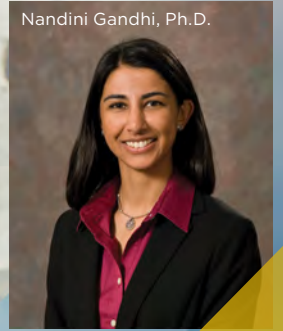
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