

Join us for an informal science talk

Monday, March 28th at 4:00 pm

Zoom Online Presentation

Meeting ID: 988 7007 8264 Passcode: 039073

## "Leveraging a donor eye repository to elucidate the molecular mechanisms underlying age-related macular degeneration"



Margaret M. DeAngelis, PhD

Professor and Ira G. Ross and  
Elizabeth Olmsted Ross  
Endowed Chair

Department of Ophthalmology and  
Ira G. Ross Eye Institute

Age-related macular degeneration (AMD) is a progressive neurodegenerative disease that is the world's leading cause of blindness in the aging population. There are no cures for this debilitating condition, which impairs and individuals' ability to drive, read and recognize faces. Although the clinical stages and forms of AMD have been elucidated, more specific prognostic tools are required to determine when patients with early and intermediate AMD will progress into the advanced stages of AMD. Given that it is still unknown if pathogenic changes in AMD are localized to specific ocular tissues or systemic, one must take into consideration that potential biomarkers identified in the peripheral blood and/or other non-ophthalmic human tissues as "disease associated" may not reflect the disease mechanism occurring in the neural retina and/or retinal pigment epithelium (RPE). Therefore, a first step in uncovering disease mechanism in AMD, may be to directly study the human tissue the disease affects, while complementing this with other systems biological approaches to develop appropriate preventive and therapeutic strategies.



Free and open to the public

[coe-gem@buffalo.edu](mailto:coe-gem@buffalo.edu) | [buffalo.edu/gem](http://buffalo.edu/gem)

