

## ROBERT E. MARC, PHD

Distinguished Professor of Ophthalmology  
University of Utah School of Medicine, John A. Moran Eye Center

## CONTACT

University of Utah  
John A. Moran Eye Center, 65 Mario Capecchi Dr, Salt Lake City, UT 84132  
[robert.marc@hsc.utah.edu](mailto:robert.marc@hsc.utah.edu) ◇ (801) 585-6500

## EDUCATION

1971 BSc Honors, Univ Texas El Paso ◇ 1975 PhD, Univ Texas Houston ◇ 1977 NIH Fellow UCLA

## MENTORS

Ed Haller, Austin HS, El Paso, Texas ◇ Rev Ernest K Banner, SSJE ◇ Jerry D Hunter, PhD, Univ Texas El Paso ◇ Harry G Sperling, PhD, Univ Texas Houston ◇ William K Stell, PhD MD, UCLA

## CURRENT TITLES

Professor of Ophthalmology & Visual Sciences, Univ Utah School of Medicine  
CEO Signature Immunologics, Inc.  
Director of Research, John A. Moran Eye Center

## CURRENT AWARDS (ANNUAL FUNDING ≈ \$2M)

NIH EY02576 (2016) ◇ NIH EY015128 (2017) ◇ NIH EY014800 (2016) ◇ NSF 0941717 (2013)

## SELECTED HONORS

University of Utah Distinguished Professor ◇ University of Utah Distinguished Mentor  
Calvin & JeNeal Hatch Presidential Endowed Chair in Ophthalmology

**TEACHING** 35 y graduate level teaching, 8 PhDs, 9 postdoctoral fellows, 2 current fellows

## SELECTED CAREER HIGHLIGHTS

2012 Marclab immunoglobulin library exceeds 50 molecular targets  
2011 Experimental optogenetics therapy for retinitis pigmentosa initiated  
2009 First retinal connectome built  
2003 Characterization of neural remodeling processes in retinal degenerations  
2002 First comprehensive molecular mapping of ganglion cells  
1999 First channel permeation mapping technology published  
1996 Signature Immunologics Inc established  
1995 Channel permeation activity probes developed  
1995 Computational molecular phenotyping technology published  
1975 First mapping of vertebrate color mosaics published

> 50 INVITED LECTURES ◇ > 90 PUBLICATIONS (Science, Nature, PNAS, PLoS Biology)

## SELECTED PUBLICATIONS

Marc et al. 2012 [Building retinal connectomes](#). *Current Opinion in Neurobiology*  
Anderson et al. 2009 [A computational framework for ... neural circuitry](#). *PLoS Biology*  
Marc & Jones 2002 [Molecular phenotyping of retinal ganglion cells](#). *J Neurosci*  
Marc & Liu 1984 [Horizontal cell synapses onto glycine-accumulating interplexiform cells](#). *Nature*  
Marc & Sperling 1977 [The chromatic organization of primate cones](#). *Science*