

Monica M Ray, MD
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Education and Training

Case Western Reserve University Hospital	<i>Cleveland, OH</i>	
Administrative Chief Resident		2020-2021
Ophthalmology Residency		2018-2021
Beaumont Hospital Dearborn	<i>Dearborn, MI</i>	
Chief Resident		2017-2018
Transitional Year Residency		2017-2018
Wayne State University School of Medicine	<i>Detroit, Michigan</i>	<i>2013-2017</i>
Doctor of Medicine, June 2017		
University of Michigan	<i>Ann Arbor, Michigan</i>	<i>2009-2013</i>
Bachelor of Science, 2013		
Major: Biochemistry; Minor: Mathematics		

Awards and Honors

Ohio Ophthalmologic Society	<i>Columbus, OH/Washington D.C</i>	
- Advocacy Ambassador Scholarship to attend Mid-Year Forum		2020
Beaumont Hospital Dearborn	<i>Dearborn, MI</i>	
- Excellence in resident teaching		2018
Wayne State University School of Medicine	<i>Detroit, MI</i>	
- Robert C. Fraser, M.D. Scholarship; dedication to teaching and ophthalmology		2015-2017
- Kresge Eye Institute Summer Externship Research Program		2014

Research

Case Western Reserve University		
Department of Ophthalmology		
Faruk Orge, MD		
Fundus Imaging and Clinical Findings in Treatment Requiring Retinopathy of Prematurity		2020
- Compiling a database of pre and post treatment stitched fundus photos of patients with retinopathy of prematurity		
- Data collection in progress		
Mark Prendes, MD		
Meibography in chalazion patients; a quantitative comparison of treatment modalities		2020
- Comparison of meibomian gland architecture in patients treated with steroids versus incision and curettage		
- Data collection in progress		

Department of Pathology
Marta Couce, MD

Orbital biopsies; a review of demographics, diagnoses and outcomes over 20 years 2019
- Completed and submitted IRB
- Chart Review in progress

Kresge Eye Institute

Bret Hughes MD. 2016

Effect of Prostaglandin vs. Brimonidine mono-therapy on visual field progression
- Chart Review and Data Analysis of glaucoma patients and their visual field progression.
- Poster presentation at the Association for Research in Vision and Ophthalmology annual meeting 2017

Mark McDermott, MD.

2016

The effects of chemotherapy medications on limbal stem cells and annular keratitis
- Chart review of patients to assess and quantify disease severity

Fu Shin Yu, PhD.

2014

Corneal wound healing under diabetic conditions.
- Designed experiment protocol for de-epithelialization of bovine cornea and synthesis of high sugar vs. control media to monitor variance in re-epithelialization
- Poster Presentation at Medical Student Research Symposium

University of Michigan Kellogg Eye Institute

Debra Thompson, PhD.

2011-2013

Regulation of Human RPE65 gene expression in the retinal pigment epithelium
- Assessed expression of RPE65 gene modulators in wild type vs. knock out mice
- Poster presentation at the Association for Research in Vision and Ophthalmology annual meeting 2012

Presentations

Ray, MM *Pediatric Intra-orbital Tumors; Can't Miss Diagnoses and Management.* Case Western Reserve University Department of Ophthalmology Grand Rounds, Cleveland OH. December 2019.

Ray, MM *Non-Accidental Trauma in an Infant,* Cleveland Ophthalmological Society Trauma Symposium, Cleveland, OH. October 2019.

Ray, MM *Atypical Optic Neuritis; Diagnosis and Management;* Case Western Reserve University joint Neurology Ophthalmology rounds, Cleveland, OH August 2019.

Ray, MM *Orbital and ocular trauma in the emergency department;* Case Western Reserve University Department of Emergency Medicine. Cleveland, OH December 2018.

Ray, MM *Surgical management of an intraorbital tumor.* Lecture at Ophthalmic Plastics Joint Conference; Case Western Reserve University and Cleveland Clinic. Cleveland, OH October 2018

Ray, MM *Cavernous Hemangioma, A review of diagnosis and management with surgical videos.* Case Western Reserve University Department of Ophthalmology Grand Rounds. Cleveland, OH. October 2018

Ray, MM, Zhou, XY, Nassiri, N, Kim, C, Goyal, A, Tannir, J, Shukairy, A, Juzych, MS, Hughes, BA.
Prostaglandin Analog vs. Brimonidine Mono-Therapy in preserving visual field function in glaucomatous

eyes. Abstract/Poster presented at Association for Research in Vision and Ophthalmology, Baltimore, Maryland. May 2017

Ray, MM. *Henry Ford Hospital Ophthalmology Grand rounds.* Grand Rounds Presentation, Henry Ford Hospital System, Detroit, Michigan. July 2016

Ray, MM. *Seeing the Eye; Ocular Imaging in Ophthalmology.* Junior Professor Lecture, Kresge Eye Institute Summer Externship, Detroit, Michigan. June 2016

Ray, MM. *Chemical Burns in the Eye.* Student Presentation, Kresge Eye Institute, Detroit, Michigan. January 2016

Ray, MM. *Ocular Tuberculosis Case Presentation.* Student Presentation, Kresge Eye Institute. Detroit, Michigan. ,January 2016,

Feathers, KL, Strong, CR, Garnai, SJ, **Ray, MM,** Thompson, DA. *Transcriptional Control of the Human RPE65 Promoter.* Abstract/Poster presented at Association for Research in Vision and Ophthalmology, Ft. Lauderdale, Florida. May 2012

Ray, MM, Feathers, KL, Thompson, DA. *Regulation of the Human RPE65 gene expression in the Retinal Pigment Epithelium.* Abstract/Poster presented at University of Michigan REU Summer Research Symposium, Ann Arbor, Michigan. April 2012

Ray, MM, Raeker, M, Russell, M. *Obscurin's participation in the development of Myotendinous Junctions.* Abstract/Poster presented at University of Michigan Undergraduate Research Symposium, 2011, Ann Arbor, Michigan.

Meetings and Courses Attended

Wills Eye Institute Board Review Course	2020
American Society of Ophthalmic Plastic and Reconstructive Surgery, San Francisco, CA	2019
American Academy of Ophthalmology National Meeting, San Francisco, CA	2019
Ophthalmic Pathology Seminar Dr. Ralph Eagle. Cole Eye Institute, Cleveland, OH	2019, 2020
American Academy of Ophthalmology National Meeting, Chicago IL	2018
University of Texas Basic Science Ophthalmology Course. Houston, TX	2018
Association for Research in Vision and Ophthalmology. Baltimore, MD	2017

Activities and Volunteering

Administrative Chief Resident, CWRU Department of Ophthalmology	2020-2021
All administrative duties including scheduling resident clinical duties, ensuring resident experience complies with ACGME outlines, and act as a liaison between the department leadership and residents	
Program Evaluation Committee, Resident Representative	2019-2021
VA Quality Improvement Committee, Resident Representative	2019-2021
Residency Interview Coordinator	2019-2020
Organize interview logistics for 2019 residency interview cycle	
Residency Wellness Director	2019-2020

Organize wellness programs for residents and department wide activities

University Hospital Quality Improvement Committee, Resident Representative 2018-2019

Case Western Reserve Ophthalmology Free Clinic 2018
Staff patients with medical students and teach the basics of eye examination

Down Syndrome Guild of Southeastern Michigan 2013-2019
Organized activities for children with Down Syndrome and their families.

Sight Savers, Financial Coordinator 2014 2013-2017
Conducted monthly vision screenings for underserved populations at local Detroit free clinics.

Ophthalmology Interest Group, President 2016 2013-2017

Genetics Interest Group, President 2014 2013-2017

American Association of Physicians of Indian Origin, Peer Mentor 2014 2013-2017
Provided advice and support to a first year medical student members of AAPI.

Children with Intellectual Disabilities Clinical Initiative Coordinator 2013-2017
Worked with and provided resources for families pertaining to their child's disability

Medical Education Service Opportunity 2011
Medical service trip to Costa Rica

Work Experience

Wayne State University School of Medicine
Curriculum Improvement 2016
Review and curriculum mapping of courses taught in the first two years of medical school

Tour Guide 2013-2015
Tours of Wayne State University School of Medicine for applicants during interviews

University of Michigan
Science Learning Center 2011-2013
Study group leader for Introductory Physics and Genetics courses