Stanford



Michael Marmor, MD

Professor of Ophthalmology, Emeritus

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Ophthalmology
- Member, Bio-X

ADMINISTRATIVE APPOINTMENTS

- Chairman, Dept. of Ophthalmology, Stanford University School of Medicine, (1984-1992)

HONORS AND AWARDS

- Honorary Professor, Xian Medical University (1988)
- Research Award, Alcon Research Institute (1989)
- Senior Honor Award, American Academy of Ophthalmology (1996)
- Susruta Lecturer, West Virginia University (1999)
- Green Lecturer, Macula Society (2007)
- Lifetime Achievement Honor Award, American Academy of Ophthalmology (2009)
- Award of Merit in Retina Research, Retina Research Foundation (2011)
- Bonner Book Award, Wayne State University (2013)
- Keeler Lecturer, Royal College of Ophthalmologists, UK (2015)

PROFESSIONAL EDUCATION

- fellowship, National Institute of Mental Health , neurophysiology (1970)
- MD, Harvard Medical School , Medicine (1966)
- AB, Harvard College , Mathematics (1962)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My laboratory research interests are in several areas. Regarding the physiology and pathophysiology of retina and pigment epithelium (RPE), studies have focused on mechanisms that control fluid movement across the RPE, and the adhesion between retina and RPE. We have also studied the modification of retinal ischemic damage, laser action upon the RPE and drug effects upon retina and RPE. Recent collaborative work has been considering means of replacing Bruch's membrane or RPE in diseased eyes, and the development of a retinal prosthesis.

Clinical investigations cover several areas. We are studying electrophysiological tests of retinal and RPE function, including non-photic responses (induced by drugs) and newer electroretinographic techniques such as multifocal ERG recording. Unusual dystrophies, toxic retinopathies and clinical problems in the area of medical retinal disorders are evaluated as appropriate. The pathophysiology of central serous chorioretinopathy has been studied. Our research programs bear directly on blinding disorders such as age-related macular degeneration, vascular disease (including diabetes), retinal detachment, retinitis pigmentosa, macular dystrophies and toxic retinopathies.

Another major area of interest is the relationship between human vision and art, music, history, literature and sport. The role and implications of vision in art have been studied in depth.

Publications

PUBLICATIONS

- **Re: Marmor et al.: Special AAO Report: recommendations on screening for hydroxychloroquine retinopathy (2025 Revision) (Ophthalmology. 2026;133:439-450) REPLY** *OPHTHALMOLOGY*
  Marmor, M. F., Ahn, S., Ehlers, J. P., Melles, R. B., Mieler, W. F., Sarraf, D., Yusuf, I. H., Daly, M., Amer Acad Ophthalmology
  2026; 133 (11): e170-e171
- **Reply.** *Ophthalmology*
  Marmor, M. F., Ahn, S. J., Ehlers, J. P., Melles, R. B., Mieler, W. F., Sarraf, D., Yusuf, I. H.
  2026
- **Re: Marmor et al.: Recommendations on screening for hydroxychloroquine retinopathy (2025 Revision) (Ophthalmology. 2026;133:439-450) REPLY** *OPHTHALMOLOGY*
  Marmor, M. F., Ahn, S., Ehlers, J. P., Melles, R. B., Mieler, W. F., Sarraf, D., Yusuf, I. H.
  2026; 133 (7): e86-e87
- **Children exposed to hydroxychloroquine in utero show no signs of retinal toxicity at age 5.** *Lupus science & medicine*
  Izmirly, P. M., Masson, M., Carlucci, P. M., Costedoat-Chalumeau, N., Zahr, N., Kim, M. Y., Buyon, J. P., Marmor, M. F.
  2026; 13 (1)
- **REPLY.** *Ophthalmology*
  Marmor, M. F., Ahn, S. J., Ehlers, J. P., Melles, R. B., Mieler, W. F., Sarraf, D., Yusuf, I. H.
  2026
- **A New Visual Field for Hydroxychloroquine Screening.** *Ophthalmology. Retina*
  Marmor, M. F.
  2026; 10 (3): 221-222
- **Special Report: Recommendations on Screening for Hydroxychloroquine Retinopathy (2026 Revision).** *Ophthalmology*
  Marmor, M. F., Ahn, S. J., Ehlers, J. P., Melles, R. B., Mieler, W. F., Sarraf, D., Yusuf, I. H., American Academy of Ophthalmology
  2025
- **Comment on: The Relationship of Hydroxychloroquine Retinopathy Progression to Stage at Cessation of Therapy.** *American journal of ophthalmology*
  Marmor, M. F.
  2025
- **Lupus review is misleading about risk of hydroxychloroquine retinal toxicity.** *Survey of ophthalmology*
  Marmor, M. F.
  2024
- **Risk Factors for Hydroxychloroquine Retinopathy and Its Subtypes.** *JAMA network open*
  Jorge, A. M., Melles, R. B., Marmor, M. F., Zhou, B., Zhang, Y., Choi, H. K.
  2024; 7 (5): e2410677
- **Questioning accelerated hydroxychloroquine retinopathy.** *Documenta ophthalmologica. Advances in ophthalmology*

Marmor, M. F.
2024

- **Most paintings by Turner and Monet show stylistic evolution, not changes in pollution.** *Proceedings of the National Academy of Sciences of the United States of America*
  Marmor, M. F.
  2023; 120 (16): e2302177120
- **Hydroxychloroquine Dose and Risk for Incident Retinopathy : A Cohort Study.** *Annals of internal medicine*
  Melles, R. B., Jorge, A. M., Marmor, M. F., Zhou, B., Conell, C., Niu, J., McCormick, N., Zhang, Y., Choi, H. K.
  2023
- **Rapid Macular Thinning is an Early Indicator of Hydroxychloroquine Retinal Toxicity.** *Ophthalmology*
  Melles, R. B., Marmor, M. F.
  2022
- **Risk Factors for Hydroxychloroquine Retinopathy and Its Subtypes - Prospective Adjudication Analysis of 4,899 Incident Users**
  Jorge, A., Melles, R., Conell, C., Lu, N., Marmor, M., Young, L., McCormick, N., Zhang, Y., Choi, H. K.
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- **Collaboration for the Management of Hydroxychloroquine.** *Ophthalmology*
  Rosenbaum, J. T., Costenbader, K. H., Desmarais, J., Ginzler, E. M., Fett, N., Goodman, S. M., O'Dell, J. R., Schmajuk, G., Werth, V. P., Melles, R. B., Marmor, M. F.
  2021
- **ACR, AAD, RDS, and AAO 2020 Joint Statement on Hydroxychloroquine Use with Respect to Retinal Toxicity.** *Arthritis & rheumatology (Hoboken, N.J.)*
  Rosenbaum, J. T., Costenbader, K. H., Desmarais, J., Ginzler, E. M., Fett, N., Goodman, S. M., O'Dell, J. R., Schmajuk, G., Werth, V. P., Melles, R. B., Marmor, M. F.
  2021
- **An Examination of the Propositus of Enhanced S-Cone Syndrome 30 Years After Diagnosis.** *JAMA ophthalmology*
  Marmor, M. F.
  2020
- **The Eyes of the Angel of Death: Ophthalmic experiments of Josef Mengele.** *Survey of ophthalmology*
  Halioua, B., Marmor, M. F.
  2020
- **Night Blindness in a Healthy Middle-Class Child** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
  Marmor, M. F.
  2020; 51 (5): 286–88
- **COVID-19 and Chloroquine/Hydroxychloroquine: is there Ophthalmological Concern?** *American journal of ophthalmology*
  Marmor, M. F.
  2020
- **TOPOGRAPHIC OPTICAL COHERENCE TOMOGRAPHY SEGMENTATION SHOWS LIMITED ELLIPSOID ZONE RECOVERY IN MILD HYDROXYCHLOROQUINE RETINOPATHY.** *Retinal cases & brief reports*
  de Sisternes, L., Pham, B. H., Durbin, M., Marmor, M. F.
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- **Sequential Retinal Thickness Analysis Shows Hydroxychloroquine Damage Before Other Screening Techniques.** *Retinal cases & brief reports*
  Marmor, M. F., Durbin, M. n., de Sisternes, L. n., Pham, B. H.
  2020; Publish Ahead of Print
- **COVID-19 and Chloroquine/Hydroxychloroquine: Is There Ophthalmological Concern?** *American journal of ophthalmology*
  Marmor, M. F.
  2020

- **The rapid N-wave as a potentially useful measure of the photopic negative response.** *Documenta ophthalmologica. Advances in ophthalmology*
  Pham, B. H., Goldberg, J. L., Marmor, M. F.
  2020
- **The 2016 American Academy of Ophthalmology Recommendations for Hydroxychloroquine Dosing Give Accurate Advice for All Patients.** *Ophthalmology. Retina*
  Marmor, M. F.
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- **SEQUENTIAL CHANGES IN HYDROXYCHLOROQUINE RETINOPATHY UP TO 20 YEARS AFTER STOPPING THE DRUG Implications for Mild Versus Severe Toxicity** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Pham, B. H., Marmor, M. F.
  2019; 39 (3): 492–501
- **Night Blindness, Ring Scotoma, and a Nonrecordable Electroretinogram in an Elderly Woman** *JAMA OPHTHALMOLOGY*
  Grassi, M. A., Maker, M. P., Marmor, M. F.
  2019; 137 (1): 109–10
- **Leonardo da Vinci Probably Did Not Have Strabismus.** *JAMA ophthalmology*
  Marmor, M. F.
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- **Transplantation of Mature Photoreceptors in Rodents With Retinal Degeneration.** *Translational vision science & technology*
  Lorach, H. n., Kang, S. n., Bhuckory, M. B., Trouillet, A. n., Dalal, R. n., Marmor, M. n., Palanker, D. n.
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- **SEQUENTIAL CHANGES IN HYDROXYCHLOROQUINE RETINOPATHY UP TO 20 YEARS AFTER STOPPING THE DRUG: Implications for Mild Versus Severe Toxicity.** *Retina (Philadelphia, Pa.)*
  Pham, B. H., Marmor, M. F.
  2018
- **Unilateral retinitis pigmentosa in children** *JOURNAL OF AAPOS*
  Mercado, C. L., Pham, B. H., Beres, S., Marmor, M. F., Lambert, S. R.
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- **Night Blindness, Ring Scotoma, and a Nonrecordable Electroretinogram in an Elderly Woman.** *JAMA ophthalmology*
  Grassi, M. A., Maker, M. P., Marmor, M. F.
  2018
- **Baseline Retinal Examinations in Patients With Systemic Lupus Erythematosus Newly Initiating Hydroxychloroquine Treatment in a US Medicaid Systemic Lupus Erythematosus Population, 2000-2010** *ARTHRITIS CARE & RESEARCH*
  Lin, T., Marmor, M. F., Barbhaiya, M., Guan, H., Chen, S. K., Feldman, C. H., Costenbader, K. H.
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  Marmor, M. F., Zeitz, C.
  2018; 137 (1): 57–62
- **Clinical display of mfERG data** *DOCUMENTA OPHTHALMOLOGICA*
  Marmor, M. F., Cabael, L.
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- **Riggs-type dominant congenital stationary night blindness: ERG findings, a new GNAT1 mutation and a systemic association.** *Documenta ophthalmologica. Advances in ophthalmology*
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- **Clinical display of mfERG data.** *Documenta ophthalmologica. Advances in ophthalmology*
  Marmor, M. F., Cabael, L.

2018

- **Sharp decline in hydroxychloroquine dosing-analysis of 17,797 initiators from 2007 to 2016** *CLINICAL RHEUMATOLOGY*
  Melles, R. B., Jorge, A. M., Marmor, M. F., Zhang, Y., Choi, H. K.
  2018; 37 (7): 1853–59
- **Hydroxychloroquine During Cancer Therapy.** *Retinal cases & brief reports*
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  2018
- **DIFFUSE CHORIORETINOPATHY WITHOUT SEROUS DETACHMENT ASSOCIATED WITH CARDIAC TRANSPLANTATION.** *Retinal cases & brief reports*
  Marmor, M. F.
  2018
- **A Novel Heterozygous Missense Mutation in GNAT1 Leads to Autosomal Dominant Riggs Type of Congenital Stationary Night Blindness** *BIOMED RESEARCH INTERNATIONAL*
  Zeitz, C., Mejecase, C., Stevenard, M., Michiels, C., Audo, I., Marmor, M. F.
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- **Modern management of antimalarial usage and retinopathy.** *Journal of current ophthalmology*
  Marmor, M. F.
  2017; 29 (3): 143–44
- **Modern management of antimalarial usage and retinopathy** *JOURNAL OF CURRENT OPHTHALMOLOGY*
  Marmor, M. F.
  2017; 29 (3): 143–44
- **ERG and other discriminators between advanced hydroxychloroquine retinopathy and retinitis pigmentosa** *DOCUMENTA OPHTHALMOLOGICA*
  Nair, A. A., Marmor, M. F.
  2017; 134 (3): 175-183
- **Re: Marmor et al.: American Academy of Ophthalmology Statement: Recommendations on screening for chloroquine and hydroxychloroquine retinopathy (2016 Revision). (Ophthalmology 2016;123:1386-1394) Reply** *OPHTHALMOLOGY*
  Marmor, M. F., Lai, T. Y. Y., Kellner, U., Melles, R. B., Mieler, W. F.
  2017; 124 (3): E29–E30
- **Hydroxychloroquine Screening Alert: Change is in the Wind** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*
  Marmor, M. F.
  2017; 48 (2): 96–98
- **The Demise of the Bull's Eye (Screening for Hydroxychloroquine Retinopathy)** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Marmor, M. F.
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- **The Prevalence of Hydroxychloroquine Retinopathy and Toxic Dosing, and the Role of the Ophthalmologist in Reducing Both** *AMERICAN JOURNAL OF OPHTHALMOLOGY*
  Melles, R. B., Marmor, M. F.
  2016; 170: 240
- **Retinal remodeling in human retinitis pigmentosa** *EXPERIMENTAL EYE RESEARCH*
  Jones, B. W., Pfeiffer, R. L., Ferrell, W. D., Watt, C. B., Marmor, M., Marc, R. E.
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- **Update on Screening Recommendations for Hydroxychloroquine Retinopathy** *JAMA OPHTHALMOLOGY*
  Kim, J. E., Marmor, M. F.
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- **Recommendations on Screening for Chloroquine and Hydroxychloroquine Retinopathy (2016 Revision)** *OPHTHALMOLOGY*

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de Sisternes, L., Hu, J., Rubin, D. L., Marmor, M. F.
2016; 134 (5): 511-519

- **Analysis of Inner and Outer Retinal Thickness in Patients Using Hydroxychloroquine Prior to Development of Retinopathy.** *JAMA ophthalmology*
de Sisternes, L., Hu, J., Rubin, D. L., Marmor, M. F.
2016; 134 (5): 511-519

- **Vision, eye disease, and art: 2015 Keeler Lecture** *EYE*
Marmor, M. F.
2016; 30 (2): 287-303

- **A Critical Review of the Effects of Hydroxychloroquine and Chloroquine on the Eye** *CLINICAL REVIEWS IN ALLERGY & IMMUNOLOGY*
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2015; 49 (3): 317-326

- **Rapid Onset of Retinal Toxicity From High-Dose Hydroxychloroquine Given for Cancer Therapy.** *American journal of ophthalmology*
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- **Rapid Onset of Retinal Toxicity From High-Dose Hydroxychloroquine Given for Cancer Therapy.** *American journal of ophthalmology*
Leung, L. B., Neal, J. W., Wakelee, H. A., Sequist, L. V., Marmor, M. F.
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2015; 122 (6): 1252-1256

- **Topographic OCT Segmentation of Inner and Outer Retina in Progressive Hydroxychloroquine Retinopathy**
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- **Localization of Damage in Progressive Hydroxychloroquine Retinopathy On and Off the Drug: Inner Versus Outer Retina, Parafovea Versus Peripheral Fovea** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*
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- **ISCEV Standard for full-field clinical electroretinography (2015 update)** *DOCUMENTA OPHTHALMOLOGICA*
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- **Pericentral Retinopathy and Racial Differences in Hydroxychloroquine Toxicity** *OPHTHALMOLOGY*
Melles, R. B., Marmor, M. F.
2015; 122 (1): 110-116

- **The Risk of Toxic Retinopathy in Patients on Long-term Hydroxychloroquine Therapy** *JAMA OPHTHALMOLOGY*
Melles, R. B., Marmor, M. F.
2014; 132 (12): 1453-1460

- **Effect of Disease Stage on Progression of Hydroxychloroquine Retinopathy** *JAMA OPHTHALMOLOGY*
Marmor, M. F., Hu, J.
2014; 132 (9): 1105-1112

- **Vision Loss and Hearing Loss in Painting and Musical Composition** *OPHTHALMOLOGY*
  Marmor, M. F.
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- **RETINAL TOXICITIES OF CANCER THERAPY DRUGS Biologics, Small Molecule Inhibitors, and Chemotherapies** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*
  Liu, C. Y., Francis, J. H., Brodie, S. E., Marr, B., Pulido, J. S., Marmor, M. F., Abramson, D. H.
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- **Disparity between Visual Fields and Optical Coherence Tomography in Hydroxychloroquine Retinopathy** *OPHTHALMOLOGY*
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- **Automated Segmentation and Quantification of Retinal Layers in Patients with Hydroxychloroquine Toxicity**
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- **The Progression of Hydroxychloroquine Retinopathy Depends on the Severity of Disease**
  Marmor, M. F., Hu, J.
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- **Fundus Autofluorescence Is Not the Best Early Screen for Hydroxychloroquine Toxicity** *JAMA OPHTHALMOLOGY*
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- **Value of red targets and pattern deviation plots in visual field screening for hydroxychloroquine retinopathy.** *JAMA ophthalmology*
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  Lavinsky, D., Chalberg, T. W., Mandel, Y., Huie, P., Dalal, R., Marmor, M., Palanker, D.
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- **Comparison of Screening Procedures in Hydroxychloroquine Toxicity** *ARCHIVES OF OPHTHALMOLOGY*
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