



DAVID MARK BROWN MD FACS | 5 Feb 2021

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Retina Consultants of Houston, PLLC d/b/a Retina Consultants of Texas
Physician Partner & Director of Research
1995-Present

Newcastle Office (Main Office)
4460 Bissonnet Street, Suite 200, Bellaire, Texas 77401

The Woodlands Office
17350 St. Luke's Way, Suite 120, The Woodlands, Texas 77384

Kingwood Office
350 Kingwood Medical Drive, Suite 200, Kingwood, Texas 77339

Space Center/Pasadena
11460 Space Center Boulevard., Suite 2, Houston, TX 77059

Katy Office
23501 Cinco Ranch Boulevard, Suite G205, Katy, TX 77494

Memorial Office
902 Frostwood Drive, Suite 280, Houston, TX 77024

Northwest Office
21216 NW Freeway, Suite 630, Cypress, TX 77429

Brenham TX Office
2620 Hwy 36 South, Brenham, TX 77833

Lufkin TX Office
2906 Brentwood Drive, Suite 300, Lufkin, TX 75901

BOARD CERTIFICATION

Diplomat, American Board of Ophthalmology 1994
ABO Recertification (2005-2014) & (2015-2024)

LICENSURE

Texas License #H5425
DEA#: BB1702213

Mylan v. Regeneron
IPR2021-00881
U.S. Pat. 9,254,338
Exhibit 2083

EDUCATION & TRAINING

- 1993-1995 **University of Iowa Hospitals & Clinics**
Medical Retina & Vitreoretinal Surgery Fellowship
- 1990-1993 **University of Iowa Hospitals & Clinics**
Ophthalmology Residency
- 1989-1990 **Baylor College of Medicine**
Medical/Surgical Internship
- 1984-1988 **Baylor College of Medicine**
Doctorate of Medicine with "High Honors"
- 1981-1984 **Houston Baptist University**
Bachelor of Science summa cum laude (4.0/4.0 GPA)

ACADEMIC APPOINTMENTS

Clinical Professor of Ophthalmology, Department of Ophthalmology
Baylor College of Medicine, Houston, Texas

Vice-Chair of Ophthalmology for Research, Department of Ophthalmology,
The Methodist Hospital, Weill Cornell College of Medicine, Houston, Texas

Associate Clinical Professor of Ophthalmology, The Methodist Hospital,
Weill Cornell Medical College, Houston, Texas

NASA- Research and Clinical Advisory Panel-Space Associated Neuro-ophthalmic Syndrome
NASA Johnson Space Center, Houston, Texas

ACADEMIC & RESEARCH HONORS

- American Academy of Ophthalmology Senior Achievement Award 2014**
American Society of Retina Specialists (ASRS) Senior Honor Award 2010
American Society of Retina Specialists (ASRS) Honor Award 2008
Academy of Ophthalmology Honor Award 2000
Heed-Knapp Ophthalmic Foundation Fellowship 1994-1995
Ronald G. Michels Foundation Fellowship Award 1994
(presented to most outstanding U.S. Retina fellow)
Heed Ophthalmic Foundation Thomas Heed Fellowship 1993-1994
PJ Leinfelder Award (most outstanding research in residency) 1991-1992

ELECTED HONORARY SOCIETIES & LISTS

- Club Jules Gonin Society (2018)**
RETINA HALL OF FAME (charter inductee- 2017)
Texas Monthly "Super Doc" (2009-2019)
"Best Doctors In America" (2007-2019)
Macula Society (2008-present)
Retina Society (2006-present)
Ronald G. Michels Fellowship Society (1994)
Society of Thomas Heed Fellows (1993)
Alpha Omega Alpha Medical Honor Society (1985)

PROFESSIONAL ORGANIZATIONS & SOCIETIES

Fellow, American Academy of Ophthalmology
Diplomate, American Board of Ophthalmology
Harris County Ophthalmology Society
Harris County Medical Society
Iowa Eye Association
Fellow, American College of Surgeons
Association for Research in Vision (ARVO)
American Society of Retina Specialists
American Society of Cataract & Refractive Surgery
American Diabetes Association
Juvenile Diabetes Research Foundation
Texas Ophthalmologic Association
American Medical Association

PROFESSIONAL ORGANIZATIONS & SOCIETIES-LEADERSHIP ROLES

American Society of Retina Specialists - Board of Directors 2014-present
American Society of Retina Specialists - Practice Management Chair 2014-17
American Society of Retina Specialists – Governmental Affairs 2017-present
The Foundation of the ASRS- Board of Directors 2014-present
Macula Society - Credentials Committee 2013-present
Retina Society- Finance Committee- 2018-present
Retina Society - Nominating Committee Chairman 2013-15
Retina Society - Nominating Committee 2011-15
American Society of Cataract & Refractive Surgery- Retina Clinical Committee 2015-present
Methodist Research Institute - Internal Advisory Committee 2004-2012
Diabetic Retinopathy Clinical Research Network - Executive Committee 2005-2007
Diabetic Research Clinical Network (DRCR) - Planning Committee 2004-2005
Methodist Hospital Research Institute SPRINT - Planning Committee 2003-2004
Harris County Ophthalmology Society - President 2002-2003
Harris County Ophthalmology Society - Executive Committee 1997-2003
Iowa Eye Association - President 2002-2003
University of Iowa Center for Macular Degeneration - Advisory Board 2003-present
Juvenile Diabetes Research Foundation - Board of Directors 1998-2002
Houston American Diabetes Association - Medical Advisory Board 2000-2002
Houston Area American Diabetes Association - Board of Directors 1998-2001

PEER REVIEWER

American Journal of Ophthalmology
Archives of Ophthalmology
British Journal of Ophthalmology
EYE
New England Journal of Medicine
OPHTHALMOLOGY
RETINA, The Journal of Retina & Vitreous Diseases
RETINA, Cases & Brief Reports

GOOGLE SCHOLAR/ EXPERTSCAPE RANKINGS

h-index: 45

i10 Index: 74

Citations: 21,892

Expertscape rankings: -based on Pubmed publications past 10 years (www.expertscape.com)

Retinal Vein Occlusion: #3 worldwide, #1 Texas

Macular Degeneration: #13 worldwide, #5 US, #1 Texas

Diabetic Retinopathy: Top 30 Worldwide, #1 Texas

Pub-Med Indexed ORIGINAL PAPERS- Author

- Abraham JR, Wykoff CC, Arepalli S, Lunasco L, Yu HJ, Hu M, Reese J, Srivastava SK, **Brown DM**, Ehlers JP. Aqueous Cytokine Expression and Higher Order OCT Biomarkers: Assessment of the Anatomic-Biologic Bridge in the IMAGINE DME Study. **Am J Ophthalmol.** 2020 Sep 5;222:328-339. PMID: 32896498.

- Fan W, Uji A, Wang K, Falavarjani KG, Wykoff CC, **Brown DM**, Van Hemert J, Sagong M, Sadda SR, Ip M. Severity of Diabetic Macular Edema Correlates with Retinal Vascular Bed Area on Ultra-Wide Field Fluorescein Angiography: DAVE Study. **Retina.** 2020 Jun;40(6):1029-1037 PMID: 31356494.

- Yu HJ, Kaiser PK, Zamora D, Bocanegra M, Cone C, **Brown DM**, Sadda SR, Wykoff CC. Visual Acuity Variability: Comparing Discrepancies between Snellen and ETDRS Measurements among Subjects Entering Prospective Trials. **Ophthalmol Retina.** 2020 Apr 23:S2468-6530(20)30154-8. PMID: 32595096.

- Payne JF, Wykoff CC, Clark WL, Bruce BB, Boyer DS, **Brown DM**; TREX-DME Study Group. Long-term outcomes of treat-and-extend ranibizumab with and without navigated laser for diabetic macular oedema: TREX-DME 3-year results. **Br J Ophthalmol.** 2020 Apr 17:bjophthalmol-2020-316176. PMID: 32303499.

- Major JC Jr, Lampen SIR, Wykoff CC, Ou WC, **Brown DM**, Wong TP, Shah AR. The Texas Taco Technique For Internal Limiting Membrane Flap In Large Full-Thickness Macular Holes: A Short-Term Pilot Study. **Retina.** 2020 Mar;40(3):552-556. PMID: 30608347.

- Zhou B, Mitchell TC, Rusakevich AM, **Brown DM**, Wykoff CC. Noncompliance in Prospective Retina Clinical Trials: Analysis of Factors Predicting Loss to Follow-up. **Am J Ophthalmol.** 2020 Feb;210:86-96. Epub 2019 Oct 21. PMID: 31647931.

- Heier JS, Wykoff CC, Waheed NK, Kitchens JW, Patel SS, Vitti R, Perlee L, Chu KW, Leal S, Asmus F, Son V, Schmelter T, **Brown DM**. Intravitreal Combined Aflibercept + Anti-Platelet-Derived Growth Factor Receptor β for Neovascular Age-Related Macular Degeneration: Results of the Phase 2 CAPELLA Trial. **Ophthalmology.** 2020 Feb;127(2):211-220. Epub 2019 Sep 25. PMID: 31791663.

- Liao DS, Grossi FV, El Mehdi D, Gerber MR, **Brown DM**, Heier JS, Wykoff CC, Singerman LJ, Abraham P, Grassmann F, Nuernberg P, Weber BHF, Deschatelets P, Kim RY, Chung CY, Ribeiro RM, Hamdani M, Rosenfeld PJ, Boyer DS, Slakter JS, Francois CG. Complement C3 Inhibitor Pegcetacoplan for Geographic Atrophy Secondary to Age-Related Macular Degeneration: A Randomized Phase 2 Trial. **Ophthalmology.** 2020 Feb;127(2):186-195. Epub 2019 Jul 16. PMID: 31474439.

- Fan W, Nittala MG, Fleming A, Robertson G, Uji A, Wykoff CC, **Brown DM**, van Hemert J, Ip M, Wang K, Falavarjani KG, Singer M, Sagong M, Sadda SR. Relationship Between Retinal Fractal Dimension and Nonperfusion in Diabetic Retinopathy on Ultrawide-Field Fluorescein Angiography. **Am J Ophthalmol.** 2020 Jan;209:99-106. Epub 2019 Aug 29. PMID: 31472160.

- Dugel PU, Koh A, Ogura Y, Jaffe GJ, Schmidt-Erfurth U, **Brown DM**, Gomes AV, Warburton J, Weichselberger A, Holz FG; HAWK and HARRIER Study Investigators. HAWK and HARRIER: Phase 3, Multicenter, Randomized, Double Masked Trials of Brolicizumab for Neovascular Age-Related Macular Degeneration. **Ophthalmology.** 2020 Jan;127(1):72-84. Epub 2019 Apr 12. PMID: 30986442.

- Wykoff CC, Nittala MG, Zhou B, Fan W, Velaga SB, Lampen SIR, Rusakevich AM, Ehlers JP, Babiuch A, **Brown DM**, Ip MS, Sadda SR; Intravitreal Aflibercept for Retinal Nonperfusion in Proliferative Diabetic Retinopathy Study Group. Intravitreal Aflibercept for Retinal Nonperfusion in Proliferative Diabetic Retinopathy: Outcomes from the Randomized RECOVERY Trial. **Ophthalmol Retina.** 2019 Dec;3(12):1076-1086. Epub 2019 Jul 24. PMID: 31542339.
- Ehlers JP, Uchida A, Hu M, Figueiredo N, Kaiser PK, Heier JS, **Brown DM**, Boyer DS, Do DV, Gibson A, Saroj N, Srivastava SK. Higher-Order Assessment of OCT in Diabetic Macular Edema from the VISTA Study: Ellipsoid Zone Dynamics and the Retinal Fluid Index. **Ophthalmol Retina.** 2019 Dec;3(12):1056-1066. Epub 2019 Jul 6. PMID: 31473172.
- Fang M, Fan W, Shi Y, Ip MS, Wykoff CC, Wang K, Falavarjani KG, **Brown DM**, van Hemert J, Sadda SR. Classification of Regions of Nonperfusion on Ultra- widefield Fluorescein Angiography in Patients with Diabetic Macular Edema. **Am J Ophthalmol.** 2019 Oct;206:74-81. Epub 2019 Apr 6. PMID: 30959003.
- Feltgen N, Ogura Y, Boscia F, Holz FG, Korobelnik JF, **Brown DM**, Heier JS, Stemper B, Rittenhouse KD, Asmus F, Ahlers C, Vitti R, Saroj N, Mitchell P. Impact of Baseline Retinal Nonperfusion and Macular Retinal Capillary Nonperfusion on Outcomes in the COPERNICUS and GALILEO Studies. **Ophthalmol Retina.** 2019 Jul;3(7):553-560. Epub 2019 Feb 27. PMID: 31277796.
- Payne JF, Wykoff CC, Clark WL, Bruce BB, Boyer DS, **Brown DM**; TREX-DME Study Group. Randomized Trial of Treat and Extend Ranibizumab With and Without Navigated Laser Versus Monthly Dosing for Diabetic Macular Edema: TREX-DME 2-Year Outcomes. **Am J Ophthalmol.** 2019 Jun;202:91-99. Epub 2019 Feb 14. PMID: 30771333.
- Kim RS, Jain RR, **Brown DM**, Bretana ME, Kegley EN, Singer MA, Aragon AV, Scheffler AC. Elevated Choroidal Thickness and Central Serous Chorioretinopathy in the Fellow Eyes of Patients with Circumscribed Choroidal Hemangioma. **Ocul Oncol Pathol.** 2018 Nov;4(6):375-380. Epub 2018 Apr 20. PMID: 30574490.
- Mitchell P, McAllister I, Larsen M, Staurengi G, Korobelnik JF, Boyer DS, Do DV, **Brown DM**, Katz TA, Berliner A, Vitti R, Zeitz O, Metzger C, Lu C, Holz FG. Evaluating the Impact of Intravitreal Aflibercept on Diabetic Retinopathy Progression in the VIVID-DME and VISTA-DME Studies. **Ophthalmol Retina.** 2018 Oct;2(10):988-996. Epub 2018 Mar 31. PMID: 31047501.
- Lampen SIR, Khurana RN, Noronha G, **Brown DM**, Wykoff CC. Suprachoroidal Space Alterations Following Delivery of Triamcinolone Acetonide: Post-Hoc Analysis of the Phase 1/2 HULK Study of Patients With Diabetic Macular Edema. **Ophthalmic Surg Lasers Imaging Retina.** 2018 Sep 1;49(9):692-697. PMID: 30222804.
- Wykoff CC, Khurana RN, Lampen SIR, Noronha G, **Brown DM**, Ou WC, Sadda SR; HULK Study Group. Suprachoroidal Triamcinolone Acetonide for Diabetic Macular Edema: The HULK Trial. **Ophthalmol Retina.** 2018 Aug;2(8):874-877. Epub 2018 May 4. PMID: 31047542.
- Kwon S, Wykoff CC, **Brown DM**, van Hemert J, Fan W, Sadda SR. Changes in retinal ischaemic index correlate with recalcitrant macular oedema in retinal vein occlusion: WAVE study. **Br J Ophthalmol.** 2018 Aug;102(8):1066-1071. Epub 2018 Apr 26. PMID:29699979.
- Brown DM**, Ou WC, Wong TP, Kim RY, Croft DE, Wykoff CC; DAVE Study Group. Targeted Retinal Photocoagulation for Diabetic Macular Edema with Peripheral Retinal Nonperfusion: Three-Year Randomized DAVE Trial. **Ophthalmology.** 2018 May;125(5):683-690. PMID: 29336896.
- Payne JF, Clark WL, Bruce BB, Wykoff CC, **Brown DM**, Menke BM, Iverson SM, Allen KF, Boyer DS; Treat & Extend Protocol in Patients with Diabetic Macular Edema Study Group. Retinopathy Regression with Treat and Extend Ranibizumab for Diabetic Macular Edema. **Ophthalmology.** 2018 May 2. pii: S0161-6420(18)30678-X.PubMed PMID: 29729809.

David M. Brown MD FACS

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