

BIOGRAPHICAL SKETCH

NAME Gerald J. Chader	POSITION TITLE Chief Scientific Officer, Doheny Retina Institute		
ERA COMMONS USER NAME Jerry			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
1) SUNY, Buffalo, NY	B.A.	1955-59	Chemistry
2) Univ. Louisville Med School	Ph.D.	1962-77	Biochemistry
3) Univ. Louisville Med. School	Postdoc	1266-67	Biochemistry
4) Harvard Med. School	Postdoc Andelot Fellow	1967-69	Biochemistry

A. Positions and Honors

Positions and Employment:

1959-60	High School Science Teacher, Buffalo, NY
1960-62	Research Assistant, Army medical Research Laboratory, Ft. Knox, KY
1962-66	Graduate Student, Univ. Louisville Medical School, KY
1966-67	Postdoctoral Fellow, Univ. Louisville, KY
1967-69	Andelot Fellow, Harvard Medical School, MA
1969-71	Instructor, Howe Laboratory, Harvard medical School, MA
1969-71	Tutor, Dept. Biochemistry & Mol Biology, Prince House, Harvard University, MA
1971-82	Research Chemist, National Eye Institute, NIH, Bethesda, MD
1982-85	Chief, Laboratory of Vision Research, NEI, NIH, Bethesda, MD
1984-96	Senior Executive Service, NIH
1984-89	Chief, Lab of Retinal Cell & Molecular Biology, NEI, NIH
1989-92	Director, NEI Intramural program, NIH
1992-96	Chief, Lab of Retinal Cell & Molecular Biology
1996-2004	Chief Scientific Officer, The Foundation Fighting Blindness, Owings Mills, MD
2004-Present	Chief Scientific Officer, Doheny Retina Institute, Los Angeles, CA

Honors:

New York State Regent's Full Tuition Scholarship, SUNY Buffalo
 Phi Kappa Phi National Honorary Society
 Phi Lambda Upsilon National Honorary Chemical Society
 DHHS Senior Executive Service Award - 1985
 Alcon Research Institute Award, Alcon Foundation, Ft. Worth, TX - 1986 and 1991
 Friedenwald Research Award, Assoc. Research Vision & Ophthalmology - 1988
 Koplowitz Medal, Georgetown University - 1992
 Co-Editor, Progress in Retinal Research - 1982-date
 Editor, Investigative Ophthalmology & Visual Science, 1997-2002
 Honorary Doctorate, M.D., (honoris causa) University of Lund, Sweden - 1993
 Honorary Doctorate, Ph.D., University of Pennsylvania - 2002

B. Selected Peer-Reviewed Publication (selected from 337 total publications)

1. Cellular immune responses to retinal antigens in Retinitis Pigmentosa. Graefes Arch Clin Exp Ophthalmol 1992; 230:119-23
- 2) Albin, A, Noonan, DM, Melchiori A, Gentleman, S. and Chader, GJ. Laminin-induced retinoblastoma cell

differentiation: involvement of a 100 kDa cell-surface laminin-binding protein. *Proc Natl Acad Sci USA* 1992; 89: 482-487.

- 3) Steele, FR, Chader, GJ, Johnson, LV, and Tombran-Tink. Pigment-epithelium-derived factor (PEDF): Neurotrophic activity and identification as a unique member of the serine protease inhibitor (SERPIN) gene family. *Proc Natl Acad Sci USA* 1993; 90:1526-30.
 - 4) Becerra, SP, Palmer, I, Kumar A, Notaro V and Chader GJ Overexpression of fetal Pigment Epithelium-Derived Factor in *E. coli*: a functionally active neurotrophic factor. *J Biol Chem* 1993; 268:23148-56.
 - 5) Wong P, Borst DE, Tenniswood M, Chader, GJ and van Veen T. Increased TRPM-2/clusterin mRNA during the time of retinal degeneration in mouse models of Retinitis Pigmentosa. *Biochem Cell Biol* 1994; 72:439-46.
 - 6) An early decrease in interphotoreceptor retinoid-binding protein gene expression in Abyssinian cats homozygous for hereditary rod-cone degeneration. *Cell Tissue Res* 1994; 278:291-98.
 - 7) Kutty, RK, Kutty G, Wiggert, B, Chader GJ and Organisciak DT Increased expression of heme oxygenase-1 in the retina by intense visible light.: suppression by the antioxidant dimethylurea. *Proc. Natl Acad Sci USA* 1995; 92:1177-1181.
 - 8) Expression, secretion and age-related downregulation of pigment epithelium-derived factor (PEDF), a serpin with neurotrophic activity. *J. Neurosci* 1995;15:4992-5003.
 - 9) Lee J, Jiao, X, Hejtmancik, JF, Kaiser-Kupfer M and Chader, GJ. Identification, isolation and characterization of a 32 kDa fatty acid-binding protein mutation from lymphocytes in humans with Bietti's crystalline dystrophy (BCD). *Mol Genetics Metab* 1998; 65: 143-53
 - 10) Chader, GJ PEDF; raising both hopes and questions in controlling angiogenesis. *Proc Natl Acad Sci* 2001; 98:2122-24.
 - 11) Lee, J, Jiao, X., Hejtmancik JF, Kaiser-Kupfer M, Markello, TC, Guo, J and Chader GJ. The metabolism of fatty acids in human Bietti's crystalline dystrophy. *Invest Ophthalmol. Vis Sci* 2001; 42: 1707-14.
 - 12) Wong P, Ulyanova T, Bennett, S, Arnold, J, Kutty, R, van Veen T, Darrow, R, Chader GJ. Expression of multiple forms of clusterin during light-induced retinal degeneration. *Curr Eye Res* 2001; 23:157-65.
 - 13) Chader, GJ. Animal models in research on retinal degenerations: past progress and future hope. *Vision Res* 2002; 42:393-99.
 - 14) Davis, V, Chan, C-c, Schoen, T, Chader, GJ and Korach K. An estrogen receptor repressor induces cataract formation in transgenic mice. *Proc Natl Acad Sci* 2002; 99:9727-32.
 - 15) Visudyne Roundtable participants. Guidelines for using Verteporfin (Visudyne) in photodynamic therapy to treat choroidal neovascularization due to age-related macular degeneration. And other causes. *Retina* 2002;22:6-18.
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