BRIEF CURRICULUM VITAE

JOSÉ CUNHA-VAZ, M.D., Ph.D.

Born November 5, 1938, Coimbra, Portugal
Married. Three children.
1962- M.D., University of Coimbra, Portugal
1965- Ph.D., University of London, United Kingdom
1967- Doctor, Medical Science, University of Coimbra, Portugal.
Certified of American and Portuguese Boards of Ophthalmology
F.A.A.O. - Fellow of the American Academy of Ophthalmology
F.C. Ophth. - Fellow of the College of Ophthalmologists - U.K.

Appointments (present)

- President of the Board of Administration of AIBILI (Association for Innovation and Biomedical Research on Light and Image)
- Coordinator, Diabetic Retinopathy and Retinal Vascular Diseases Section, EVICR.net
- Editor-in-Chief of Ophthalmologica

Past Appointments (more relevant)

- 1972-2008: Professor of Ophthalmology and Head of Department of Ophthalmology, University of Coimbra, Portugal
- 1994-2007: President, Institute of Biomedical Research on Light and Image
- 1984-1986: Professor of Ophthalmology, Director of Lions of Illinois Eye Institute, Chicago, USA
- 1978-1981: Professor of Ophthalmology, Director of Retina Service, University of Illinois at Chicago, USA
- 1963-1966: Research Associate at Institute of Ophthalmology /Moorfields, London, U.K.

Honors and Awards

University of Coimbra Prize for Medicine (1962); National Research Prize of Instituto de Alta Cultura(1965); International Research Scholar, Research to Prevent Blindness (1978); Honor Award of the American Academy of Ophthalmology (1992); Diaz Caneja Prize and Lecture, Valladolid, Spain (1993); Commend of the Order of Public Instruction, Portugal (1993); Member of Academia Ophthalmologica Internationalis - Chair XLIV (1995); Bial Medicine Prize Honours (1996); Pioneer of Refractive Surgery Award (1998); Henkind Memorial Lecture (Macula Society - 1998); Alcon Research Institute Award (1998), Academia Portuguesa de Medicina - Chair XLVIII (2000); European Academy of Ophthalmology – Chair VII (2002); Helmholtz Gold Medal (European Society of Ophthalmology - 2007); Order of Henry the Navigator, (Portugal - 2007); Eva Kohner Award (European Association of Diabetic Eye Comlications – 2008); Ophthalmology Lifetime Achievements Award (Mediterranean Retina – 2008); Golden Medal of Distinguished Services (Ministry of Health of Portugal – 2009).

International Societies

European Academy of Ophthalmology (Secretary General); European Society of Retinal Specialists (Past-President); European Society for Cataract and Refractive Surgeon (Past President); European University Professors of Ophthalmology (Past President); International Society of Ocular Fluorometry (Past President); European Association for the Study of Diabetes (EASD); Club Jules Gonin; Macula Society; International Intraocular Implant Club; European Ophthalmic Pathology Society (Emeritus); Spanish Society of Ophthalmology (Emeritus); PAN-American Association of Ophthalmology (Lifetime member).

Research

P. I. for research grants from Instituto de Alta Cultura, Fundação Gulbenkian, Instituto Nacional de Investigação Científica, Junta Nacional de Investigação Científica e Tecnológica, Kroc Foundation, Research to Prevent Blindness, American Diabetes Association, National Institute of Health (National Eye Institute), European Union (Leader of a Concerted Action), Fundação para a Ciência e Tecnologia.

Investigator in more than 50 clinical trials / research projects in AIBILI since 1994.

Publications

Author and co-author of more than 450 articles, chapters and books.

6 Key publications:

- Cunha-Vaz, J.G., Shakib, M., Ashton, N.: Studies on the permeability of the blood-ocular barrier.
 I. On the existence, development and site of a blood-retinal barrier. Br. J. Ophthalmol. 1966, 50:411-453.
- Shakib, M., Cunha-Vaz, J.G.: Studies on the permeability of the blood-retinal barrier. IV. Junctional complexes of the retinal vessels and their role on their permeability. Exp. Eye Res. 1966, 5:229-234.
- Cunha-Vaz, J.G., Maurice, D.M.: The active transport of fluorescein by retinal vessels and the retina. J. Physiol. 1967, 191:467-486.
- Cunha-Vaz, J.G., Faria de Abreu, J.R., Campos, A.J., Figo, G.: Early breakdown of the bloodretinal barrier in diabetes. Br. J. Ophthalmol. 1975, 59:649-656.
- Lobo, C., Bernardes, R., Cunha-Vaz, J.G.: Mapping retinal fluorescein leakage with confocal scanning laser fluorometry of the human vitreous. Arch. Ophthalmol. 1999, 117:631-637.
- Lobo, C.L. Bernardes, R.C., Figueira, J.P., Faria de Abreu, J.R., Cunha-Vaz, J.G.: Three-year follow-up of blood retinal barrier and retinal thickness alterations in patients with type 2 diabetes mellitus and mild nonproliferative retinopathy. Arch. Ophthalmol. 2004, 122: 211-217.

Major Scientific Contributions

1965 –	Effect of histamine on ocular vessels Identification of Blood-Retinal Barrier	(Arch. Ophthalmol., 73, 211, 1965)
1966 –	Morphological basis of Blood-Retinal Barrier First identification of tight junctions in Retinal (later confirmed in brain vessels too)	vessels (Exp. Eye Research 5, 229, 1966)
1967 –	First demonstration of an active transport syste retinal vessels and retinal pigment epithelium	
1967–	Morphological characterization of mechanisms breakdown of Blood-Retinal Barrier	of (J. Path. Bacteriol., 93, 645, 1967)
1975 –	Introduction of Vitreous Fluorofotometry	(Br. J. Ophthalmol., 59, 649, 1975)
1980 –	Role of breakdown of Blood-Retinal Barrier in Retinal Diseases (The Blood-R	etinal Barriers, Plenum Press, 1980)
1983 –	Introduction of a commercial Ocular fluorometer- the Fluorotron Master (A	Arch. Ophthalmol., 101, 1753, 1983)

1984 –	The role of breakdown of Blood-Retinal Barrier in cystoid macular edema (Surv. Ophthalmol. 28, 485, 1984)
1985 –	Demonstration of increased vascular permeability in the initial stages of diabetic retinal disease (Diabetes, 34, 53, 1985)
1990 –	Demonstration of reabsorptive flux for organic lesions in retinal vessels using a new microperfusion technique (IOVS, 31, 471, 1990)
1999 –	Mapping retinal fluorescein leakage with confocal scanning laser fluorofotometry of the(Arch. Ophthalmol., 117, 681, 1990) human vitreous (IEEE TBE, 52, 106,2005)
2002 -	Introduction of the concept of Multimodal Macula Mapping(Surv. Ophthalmol. 47, 580, 2002)
2004 -	Characterization of different phenotypes of nonproliferative retinopathy in diabetes type 2(Arch.Ophthalmol., 122, 211, 2004)
2007 -	Identification of predictive factors for the development of diabetic macular edema (IOVS, 117,3, 2007)
2009 -	Microaneurysm Turnover is a biomarker for diabetic retinopathy progression to clinically cignificant macular edema: findings for type 2 diabetics with nonproliferative retinopathy. (Ophthalmologica, 223:292-297)