

Prof. Dr. Fernando H. Lopes da Silva

F.H. Lopes da Silva (1935) received his M.D. from the University of Lisbon. After post-graduate studies in London and Utrecht he became member of the research staff of the Institute of Medical Physics (TNO). He got the Ph.D. degree from the University of Utrecht. He was appointed full professor in General Physiology at the Faculty of Sciences at the University of Amsterdam in 1980 (since 2000 he is Emeritus Professor). In 1985, he was elected member of the Netherlands Royal Academy of Arts and Sciences. From 1995 to 2002, he was Scientific Director of the Institute of Epilepsy (Heemstede). Since 2000 he is invited Professor of the Faculty of Medicine of the University of Lisbon and since 2005 he is invited Professor of the Technical University of Lisbon to coordinate the research and teaching in Bio-Medical Engineering.

He has supervised about 64 PhD theses.

He received several honors, among which degrees of Doctor Honoris Causa (Universities of Lisbon and Porto), the Herbert H. Jasper Award of the American Clinical Neurophysiology Society, the degree of grand-officer of the Order of Santiago da Espada of Portugal, and the degree of knight of the order of the "Nederlandse Leeuw".

His research interests are mainly the study of the basic electrophysiology of brain systems, in particular the origin and organization of rhythmic activities of the brain, and the origin of epileptic phenomena. Furthermore he studies the functional organization of neuronal networks in relation to memory, attention and consciousness. He is member of several scientific Societies, but also extra-professional such as the Dutch Society of Medical Polemology, of which he was Vice-President from 2002 to 2006.

Selected 5 publications of the last 2 years:

Meeren H, van Luijtelaar G, Lopes da Silva F, Coenen A. Evolving concepts on the pathophysiology of absence seizures: the cortical focus theory. *Arch Neurol*. 2005 Mar;62(3):371-6.

Parra J, Kalitzin SN, Lopes da Silva FH. Photosensitivity and visually induced seizures. *Curr Opin Neurol*. 2005 Apr;18(2):155-9.

Pfurtscheller G, Brunner C, Schlogl A, Lopes da Silva FH. Mu rhythm (de)synchronization and EEG single-trial classification of different motor imagery tasks. *Neuroimage*. 2006 May 15;31(1):153-9.

de Munck JC, Goncalves SI, Huijboom L, Kuijter JP, Pouwels PJ, Heethaar RM, Lopes da Silva FH. The hemodynamic response of the alpha rhythm: an EEG/fMRI study. *Neuroimage*. 2007 Apr 15;35(3):1142-51.

Tolner EA, Frahm C, Metzger R, Gorter JA, Witte OW, Lopes da Silva FH, Heinemann U. Synaptic responses in superficial layers of medial entorhinal cortex from rats with kainate-induced epilepsy. *Neurobiol Dis*. 2007 May;26(2):419-38.