

Lavrentiadou Sophia



I am an associate professor in Physiology, in the School of Veterinary Medicine, AUTh. After graduating from the School of Biology, AUTh, I pursued my PhD in Biochemistry in the School of Medicine, Boston University, USA, where I studied the transcriptional regulation of apolipoprotein genes and their structure-function. As a post-doctoral fellow in the School of Medicine, University of California, Davis, where I conducted research on the role of ceramides in apoptosis. I teach Physiology and perform research on the modulation of signaling cascades by the redox status in the reproductive and nervous systems, both in vivo and in vitro. I am a member of the Laboratory for Neurodegenerative Diseases, in the Center for Interdisciplinary Research and Innovation, AUTh. I supervise Ph.D. and MSc candidates, and three postdoctoral fellows. We have developed a primary cell culture system and a brain-organoid system to study molecular mechanisms in AD. We also study the role of microRNAs and antioxidants in sperm physiology. I am reviewer for several scientific journals and a guest editor in the International Journal of Molecular Sciences. I have co-authored 29 research and review articles and translated in Greek Chapters of "Cunningham's Textbook of Physiology".