

Third Laureate Fundamental Research



• **Research Work Title:** Role of oxidative stress and antioxidants on Ca²⁺ signaling and molecular pathways through TRPM2 cation channels in dorsal root ganglion cells

• **Researcher:** Prof. Dr. Mustafa Nazırođlu

• **Nationality:** Turkey

• **Field:** Medicine, Physiology

• **Position:** Head of Department and Director of Neuroscience Research Center.

• **Scientific Affiliation:** Cation channels, oxidative stress, Ca²⁺ signaling, pain and dorsal root ganglion cells

Abstract:

Prof. Dr. Mustafa Nazırođlu reported firstly in literature that antioxidant such as selenium, vitamin C and vitamin E induced protective effects on wireless (2.45 GHz) internet, insecticides, diabetes and antidepressant drugs-induced kidney, brain, testis and liver oxidative injury in experimental animals and humans. He also discovered that glutathione and N-acetyl cysteine important role on inhibition of transient receptor potential melastatin 2 (TRPM2) cation channels activated by oxidative stress and ADP-ribose.

Biography:

Prof. Dr. Mustafa Nazırođlu has received his PhD (Physiology) in Firat University during the period of 1992-1996. Currently, he is working as Head of Department of Biophysics in Suleyman Demirel University (SDU), Medical Faculty. He has successfully completed his administrative responsibilities as Head of department, Head of Congress organization committee, director of Neuroscience Research Center in SDU. As chair of congress, he organized 1st, 2nd and 3rd biennale International Congress in Cell Membrane and Oxidative Stress: Focus on Calcium Signaling and TRP channels between 2010-2006, Isparta, Turkey. (www.cmos.org.tr). He is also serving in organization committee of TEMA14- Congress (2011), Hubei, China. He is serving as an editor of several reputed journals like 'Biological Trace Element Research', 'Cell Membranes and Free Radical Research', 'Turkish Journal of Medical Sciences'. He is also review editor in Frontiers in Membrane Physiology and Biophysics. He authored 125 international research articles and 1313 citation in SCI and 5 international book chapters. He is a member of Cell Membranes and Free Radical Society (Head of the society), Turkish Physiological Society and International Brain Research Organization (IBRO). He has honored as 'Young Investigative Scientist Award (2001), UC-Berkeley, USA, Alexander von Humboldt (AvH) Research fellowship owner (2005-2002), RWTH-Aachen, Germany, Encouragement Award of Scientific and Tech. Res. Council (TUBITAK), Ankara, Turkey (2006), Howard Huges Medical Institute (USA) support (2009).

