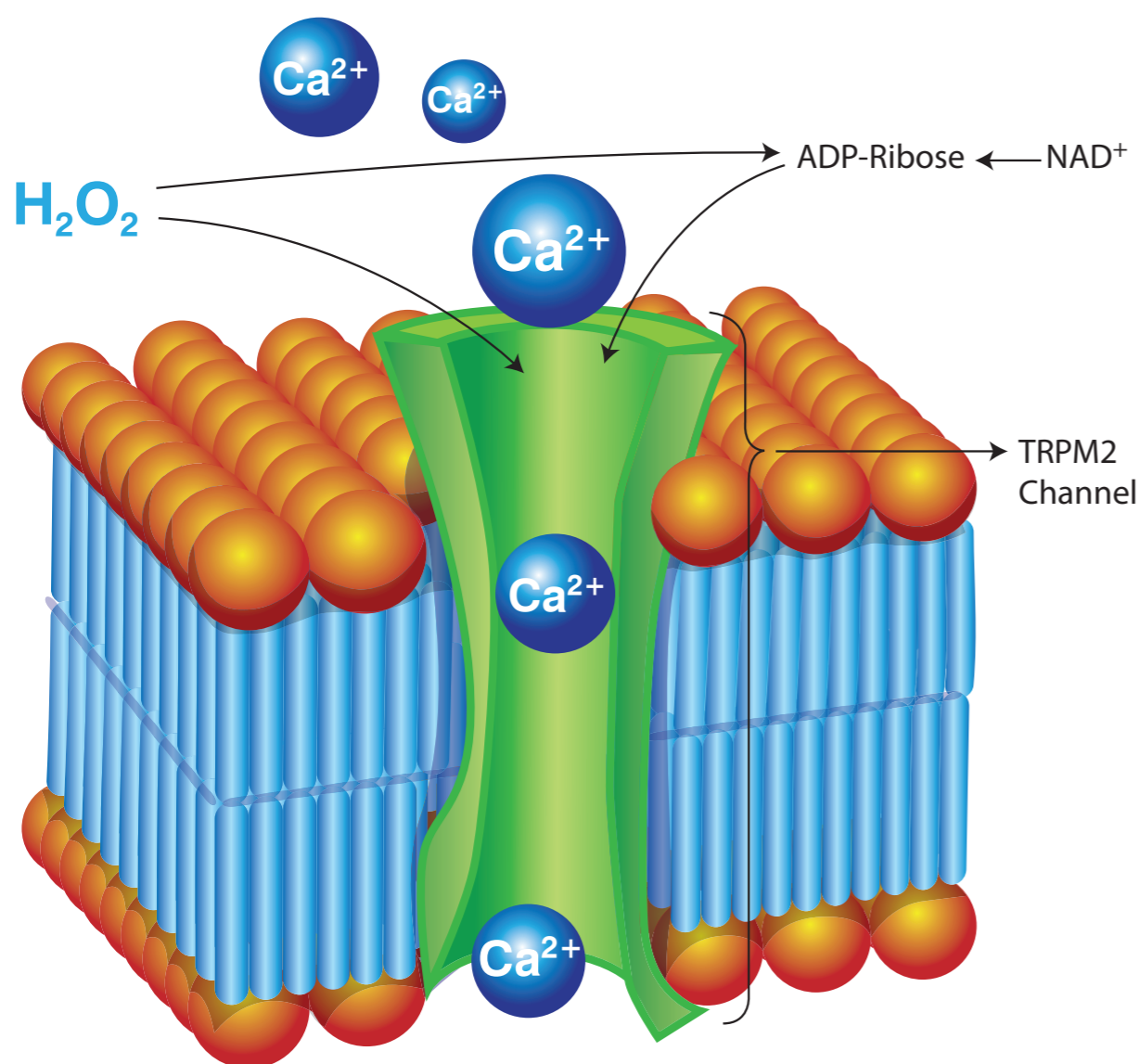




3rd International Congress on Cell Membranes and Oxidative Stress: Focus on Calcium Signaling and TRP Channels

22-27 June 2010



Courses (Limited with 15 people)

COURSE A / Electrophysiology / 12 hours

Educator : **Dr. Simon HEBEISEN** (Bisingen, Switzerland)

- 1-Ca²⁺ Signaling Experiments in Cultured Cells
- 2-Using Patch-Clamp System on Ion Channels Measurements
- 3-EEG Records from Rats

COURSE B / Cell Culture /12 hours

Educators : **Prof. Dr. Sitki ÖZTAŞ** (Isparta, Turkey)
Ilinca IONESCU (Aachen, Germany)

- 1-Freezing, Defrosting, Culturing, Passaging and Preparing for Experiments
- 2-Transfection Method
- 3-PC12, HEK 293, CHO Cells Cell Culturing Processes

COURSE C / Analysing Antioxidant Vitamins / 12 hours

Educator : **Prof. Dr. Mustafa NAZIROĞLU** (Isparta, Turkey)

- 1-Determination of Vitamin A,C,E and β -carotene

<http://www.cmos.org.tr>

Congress Language: English

Prof.Dr. Mustafa NAZIROĞLU

Chairman

e-mail: mnaziroglu@med.sdu.edu.tr

Prof.Dr. James W. Jr. PUTNEY

Vice Chairman

e-mail: putney@niehs.nih.gov

Congress Secretary : A. Cihangir UĞUZ, İ. Suat ÖVEY, Bilal ÇİĞ

Accountant : Ömer Çelik, Mustafa KÜÇÜKAYAZ, Cemil ÖZGÜL

Information Manager : Ercan SÖZBİR

Address :SDÜ Tıp Fakültesi Biyofizik A.D., Isparta / TURKEY

Tel: + 90 246 211 33 36

Fax: +90 246 237 11 65

e-mail: biophysics@med.sdu.edu.tr



Speakers and Subjects

Calcium Signaling in Diseases

1- Natalia Preverskaya (Lille, France)
"Calcium signatures for prostate cancer staging"

2-Loïc Lemonier (Lille, France)
"TRPM8 modulation during prostate cancer"

3-Rosario Rizzuto (Ferrara, Italy)
"Calcium, mitochondria and the control of apoptosis and autophagy"

4-José A. Pariente (Badajoz, Spain)
"Relationship between calcium signaling, reactive oxygen species and apoptosis"

5-Ertugrul Kilic(Istanbul,Turkey)
"Drug delivery proteins and hypoxia in brain"

6-Mohamed Trebak (New York, USA)
"STIM / Orai-mediated calcium entry in the vascular function"

7-Madesh Muniswamy (Philadelphia, USA)
"Is ER Ca²⁺ signaling the portal to mitochondrial dysfunction and vascular stress?"

Interacting Second Messenger Cascades

1-James W. Putney (North Carolina, USA)
"Calcium channels in non-excitabile cells"

2-David I.Yule (New York, USA)
"Regulation of Ca²⁺ release through inositol trisphosphate receptors by cytosolic ATP"

Physiology and Pathology of TRP Channels

1-Indu S. Ambudkar (Bethesda MD, USA)
"Distinct function of TRPC1-SOC channels in salivary epithelial cells "

2-Felix Viana (Alicante, Spain)
"The role of TRPM8 and TRPA1 channels in the transduction of cold temperatures at mammalian nerve endings"

3-Alexander Dietrich (Marburg, Germany)
"Hypoxia induced production of reactive oxygen species and TRPC6-activation in pulmonary arterial smooth muscle and endothelial cells"

4-Peter McNaughton (Cambridge, UK)
"Cold and heat - the Yin and Yang of inflammatory pain"

5-Klaus Groschner (Graz, Austria)
"Novel aspects of TRPC pathophysiology"

6-Vincenzo Di Marzo (Naples, Italy)
"Brain TRPV1 channels: Potential role and cross-talk with CB1 receptors"

7-Mustafa Naziroglu (Isparta, Turkey)
"Molecular roles of TRPM2 channels in pathophysiology of neurological diseases"

Oxidative Stress and Ion Channels

1-Michele Mazzanti (Milano, Italy)
"Chloride current during beta-amyloid oxidative stress generation in microglia"

2-Mitsu Ikura (Toronto, Canada)
"Structural basis for intracellular calcium sensing and regulation"

3-Martyn Mahaut-Smith (Leicester, UK)
"The role of ion channels in platelet activation"

4-Christian Schoneich (Kansas, USA)
"Modulation of SERCA function through redox processes, Bcl-2 and Hsp 70"

5-Joseph Burgoyne (Boston, USA)
"Redox regulation of protein kinases A and G: From detection to functional consequences"

6-Michael Davies (Sydney, Australia)
"Myeloperoxidase, oxidants and damage to ion pumps"

7-Bernard Friguet (Paris, France)
"Oxidized protein degradation and repair in aging and oxidative stress"

8-Neven Zarkovic (Zagreb, Croatia)
"Lipid peroxidation and 4-hydroxynoneal as a second messenger of ROS"

Antioxidants

1-Sergio D. Paredes (Badajoz, Spain)
"Melatonin: Helping cells cope with oxidative disaster"

2-Ahmet Korkmaz (Ankara, Turkey)
"Melatonin in the treatment of breast cancer"

3-Cem Ekmekcioglu (Vienna, Austria)
"Melatonin receptors in human cancer: State of the art and future perspectives"

4-Ozcan Erel (Ankara, Turkey)
"New, easy, applicable tests on analysis of antioxidant and oxidant levels in biological systems"

5- Huseyin Bagci (Antalya, Turkey)
"General problems and ethical resolution advices in molecular and genetic studies"

Electromagnetic field & Radiation and Calcium Signaling

1-Giorgio Aicardi (Bologna, Italy)
"Effect of electromagnetic fields on neuronal voltage-gated calcium channels and synaptic transmission"