

Symposium on
**The Role of Medical Imaging in Modern Medical
Diagnosis, Treatment, and Basic Science Research**

Organized by
University of Cyprus

In Collaboration¹ with and under the auspices² of

- Cyprus Association of Medical Physics and Biomedical Engineering¹
- Cyprus Radiological Society²

Supported by the
Department of Mechanical and Manufacturing Engineering
University of Cyprus
Hellenic Bank³ (partial support)

Venue
University of Cyprus
University House-Anastasios G. Leventis, Room B108

Date
7 November, 08:00-19:00hrs

Program

- 08:00 **Registration**
- 08:30 **Welcome and Introduction**
C. Constantinides
- 08:40 **Keynote Presentation: The Role of Imaging in Medicine: The Example of Cardiology**
E. Nicolaidis, Medical Director, Nicosia General Hospital
- 09:00 **Session 1: The Role of Imaging Modalities in Modern Medicine**
Chairman: P. Kaplanis
- 09:00 The Importance of Medical Physics in Radiographic Imaging
P. Kaplanis, Department of Medical Physics, Nicosia General Hospital
- 09:20 Principles of Computer Tomography – Applications on Coronary Artery Imaging
M. Hatzicosti, American Heart Institute
- 09:40 Special Techniques in Magnetic Resonance Imaging – Its Role in Early Diagnosis and Treatment
C. Natsiopoulos, Nicosia General Hospital
- 10:00 Single Photon Emission Tomography and Positron Emission Tomography
K. Kouris, Medical Physicist, Nuclear Diagnostics, Limassol
S. Frangos, Nuclear Medicine Physician, Nuclear Diagnostics, Limassol
- 10:20 Novel Imaging Techniques of Angiogenesis with Ultrasound Contrast Agents
M. Averkiou, Department of Mechanical Engineering, University of Cyprus
- 10:40 **Coffee Break**
- 11:00 **Session 2: The Role of Imaging in Basic Science Research – Animal Models, Novel Cellular Tracking, Molecular Probes, and Contrast Agents**
Chairman: P. Georgiades
- 11:00 Modern Medical Imaging: The State of the Art – From Man to Mouse
A. Johnson³, Center for In Vivo Microscopy, Duke University, USA

- 11:30 The Mouse Genome Informatics (MGI) Database: Using the Mouse to Decipher the Genetic Basis of Human Disease
*A. V. Anagnostopoulos*³, The Jackson Laboratory, USA
- 12:00 Enhanced Cellular Tracking Techniques in Transgenic Mouse Models
S. Malas, Cyprus Institute of Neurology and Genetics
- 12:30 Novel Molecular Imaging Systems in Basic Biosciences and Novel Therapeutics
A. Odisseos, Department of Chemistry, University of Cyprus and EPOS-Lasis Research and Development
- 13:00 Tissue-specific Bio-imaging of Gene Expression in Embryos: Therapeutic and Research Implications
P. Georgiades, Department of Biological Sciences, University of Cyprus
- 13:30 **Lunch Break**
- 14:30 Session 3: Imaging Cardiovascular Disease**
Chairman: *S. Constantinides*
- 14:30 Interventional Techniques in Coronary Artery Disease and the Study of Cardiac Function
S. Constantinides, American Heart Institute
- 15:00 Cardiac Surgery and Transplantation – Is There a Role for Imaging?
G. Georgiou, American Heart Institute
- 15:30 **Coffee Break**
- 16:00 Session 4: Imaging of the Muscular and Neurovascular System**
Chairman: *M. Pantziaris*
- 16:00 Multiple Sclerosis and Ischemic Stroke Disease
M. Pantziaris, Cyprus Institute of Neurology and Genetics
- 16:30 Imaging of Muscle Disease
T. Kyriakides, Cyprus Institute of Neurology and Genetics
- 17:00 The Role of Imaging in Oncology and Treatment Planning
S. Malas, Limassol General Hospital

- 17:30 Recent Developments in Endocrinology in Humans and Animals
S. Stavrou, Private Practitioner and Visiting Lecturer, New York University, USA
- 18:00 **Session 5: Round Table Discussion: The Value of Animal Models and Modern Diagnostic Modalities in Addressing Fundamental Clinical and Basic Science Questions for Cardiovascular and Cerebrovascular Disease**
P. Georgiades, S. Malas, A. Anagnostopoulou³, E. Kalokairinou
- 19:00 **Closing**

More info: <http://www.ucy.ac.cy>

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Venue
University Campus

University House-Anastasios G. Leventis
Room B108 (Building no.1 shown on the map, Parking no. 11 & 12)

