



**International Workshop of
The Physiological Society
15th Symposium of The Jagiellonian
Medical Research Centre**

**Endothelium: The Determinant of
Cardiovascular Health and Disease**

Chairs: L. Poston (UK), S. Chłopicki (Poland)



9th-12th May 2007, Kraków, Poland

**Venue: Polish Academy of Arts and Sciences (PAU)
17 Sławkowska**

The Physiological Society:

David Eisner
Ian McGrath
Prem Kumar
Ole Petersen
Lucilla Poston

The JMRC Council:

Stefan Chłopicki
Ryszard J. Gryglewski
John C. McGiff
Aleksander Koj
Andrzej Szczeklik

Wednesday, 9th May
Opening ceremony
Venue: Manggha Centre, 26 Konopnickiej

Welcome addresses:

18.00–18.10 **Ian McGrath (UK)** – Chairman of the

Executive of The Physiological Society

18.10–18.20 **Jack McGiff (USA)**– Overseas Honorary

President of the JMRC

18.20–19.10 **Opening Lecture**

Geoffrey Burnstock (UK)

Dual Control of Vascular Tone and Remodelling by

Endothelial Cells and Perivascular Nerves

19.10–19.30 **Concertino**

19.30–21.30 **Get-Together-Party**

Thursday, 10th May
Venue: PAU, 17 Sławkowska

Major Endothelial Mediators - part one

Chairs: A. Szczeklik (Poland), S. Chłopicki (Poland)

8.45–9.00 **Andrzej Białas**

Polish Academy of Arts and Sciences: 1872 - 2007

9.00–9.40 **Ryszard Gryglewski (Poland)**

*Prostacyclin – from the Discovery to Current Understanding
of its Regulatory Function*

9.40–10.20 **David Webb (UK)**

*Endothelin- from Discovery, through Physiological
Understanding, to Clinical Use*

10.20–11.00 **Ajay Shah (UK)**

*Reactive Oxygen Species in the Regulation of Endothelial
Phenotype*

11.00–11.30 *Tea/Coffee Break*

Major Endothelial Mediators - part two
Chairs: L. Poston (UK), N. Abraham (USA)

11.30–12.10 **Michal Laniado-Schwartzman (USA)**
*The Role of Cytochrome P450–Derived Eicosanoids in
Endothelial Dysfunction*

12.10–12.50 **Józef Dulak (Poland)**
*Heme Oxygenase-1 in Endothelial Function and
Dysfunction*

12.50–13.30 **Karolina Kublickiene (Sweden)**
Gender and the Endothelium

13.30–14.30 *lunch*

14.30–16.00 Poster Session

16.30–19.00 Laboratory Demonstrations

Venue: Pugets' Palace, 13 Starowiślna

Evening Lecture

20.00–20.40 **Tadeusz Maliński (USA)**

Nanomedicine for the Heart and Paintings of Old Masters

20.40–22.00 **Workshop Dinner**

Friday, 11th May
Venue: PAU, 17 Sławkowska

Endothelial Regulation of Cardiovascular System -part one

Chairs: R. Gryglewski (Poland), J. McGiff (USA)

9.00–9.40 **Patrick J. Pagano (USA)**

*The Vascular Adventitia: Crossroad for Oxidative Stress and
Inflammation?*

9.40–10.20 **Cor de Wit (Germany)**

*The Endothelium as a Communication Channel: Signalling
through Gap Junctions*

10.20–11.00 **Ramaroson Andriantsitohaina (France)**

*Microparticles are Vectors of Paradoxical Biological
Informations on the Endothelium*

11.00–11.30 Tea/Coffee Break

Endothelial Regulation of Cardiovascular System - part two

Chairs: Z. Żukowska (USA), P. Minuz (Italy)

11.30–12.10 **Lucilla Poston (UK)**

Developmental Programming of Endothelial Dysfunction

12.10–12.50 **Frank Stassen (Netherlands)**

Infections and Atherosclerosis: an Alternative View on an Outdated Hypothesis

12.50–13.30 **Zbigniew Darzynkiewicz (USA)**

Assessment of DNA Damage Induced by Exogenous Agents and Endogenous Oxidants in Endothelium in Relation to Cell Cycle and Apoptosis

13.30–14.30 lunch

14.30–16.00 **Poster Session**

16.30–19.00 **Laboratory Demonstrations**

Venue: Historical Museum, 35 Market Square

Evening Lecture

20.00–20.40 **Andrzej Szczeklik (Poland)**

Symbiosis of Art and Science in Medicine

20.40–22.00 **Glass-of-Wine Reception**

Saturday, 12th May

Venue: PAU, 17 Sławkowska

Endothelial Dysfunction in Cardiovascular Diseases

Chairs: A. Trzebski (Poland), T. Kunicki (USA)

9.00–9.40 **Meinrad Gawaz (Germany)**

Role of Platelets in Atherogenesis. Current Concepts and Therapeutic Perspectives

9.40–10.20 **Caroline Wheeler Jones (UK)**

Protease - Activated Receptors as Key Regulators of Endothelial Prostanoid Synthesis

10.20–10.50 Tea/Coffee Break

10.50–11.30 **Johann Bauersachs (Germany)**

Endothelial Dysfunction in Heart Failure

11.30–12.10 **Stefan Chłopicki (Poland)**

Endothelial Dysfunction in Atherosclerosis

Closing lecture

Chairs: L. Poston (UK), S. Chłopicki (Poland)

12.10–13.00 **William Aird (USA)**

Endothelial Cell Heterogeneity

13.00–13.20 closing notes, best posters presentations, poster prize

13.20–14.00 – lunch and departure

Lectures: Allotted time for each lecture: 30 min plus 5-10 min discussion. Opening and closing lecture: 45 min

Posters: Poster session will be held at the PAU's interior yard in the venue

Laboratory demonstrations for international workshop participants:

1. *Assessment of endothelial function in vascular preparations*

Department of Experimental Pharmacology, Chair of Pharmacology Jagiellonian University Medical College (S. Chłopicki, L. Drelicharz)

2. *Assessment of endothelial function in cultured cells*

Department of Medical Biotechnology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University (J. Dulak, A. Józkowicz)

3. *Detection of NO in vivo and in vitro using ESR*

Department of Biophysics, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University (B. Fink, W. Froncisz)

4. *Assessment of endothelial function in patients*

Department of Medicine, Jagiellonian University Medical College (A. Szczeklik, J. Dropinski, B. Domagała)

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