

Jagiellonian Medical Research Centre



**NITRIC OXIDE
IN
CARDIOVASCULAR SYSTEM
From Basic Research To Clinics**

22nd–25th May 1994, Cracow, Poland

22nd May (Sunday)

- 14.00 - 17.00 Registration at your hotel
- 17.30 "Get together party"
 at the foyer of the Słowacki City Theatre
- 18.45 The ceremony of opening
 of the 2nd JMRC Symposium
- 19.00 Opera by Krzysztof Penderecki "Król Ubu"



23rd May (Monday)

Chairmen: L. Ceremużyński, R.J. Gryglewski, A. Szczeklik (Poland)

8.30 - 9.15 Sir John R. Vane (UK):
Regulatory mechanisms of vascular endothelium - state-of-art lecture

9.15 - 9.45 Coffee break

Session I

Nitric Oxide and Prostanoids

Chairmen: J. Botting (UK), K. Ceremużyńska (Poland), C. Thiemermann (UK)

9.45 - 10.10 M. Mulvany (Denmark):
Regulatory mechanisms of vasoconstriction

10.10 - 10.35 J. McGiff (USA):
The position of NO among endogenous vasodilators

10.35 - 11.00 R.J. Gryglewski, J. Świąć (Poland):
In vivo interactions between endothelial mediators

11.00 - 11.15 Coffee break

11.15 - 11.35 M. Balazy (USA):
Interactions between NO/L-arginine and eicosanoid/arachidonate pathways

11.35 - 11.55 J. Quilley (USA):
Relative contributions of NO, prostanoids and cytochrome P 450 derived arachidonate metabolites to the vasodilator action of bradykinin.

11.55 - 12.15 T. Świerkosz (UK):
Relationship between different isoforms of nitric oxide synthase and cyclooxygenase in various cell types

12.15 - 13.30 Lunch

Session II

Nitric Oxide in Heart

Chairmen: J. McGiff (USA), J. Martin (UK), A. Szczeklik (Poland)

13.30 - 13.55 J.F. Martin (UK):
Induction of NO synthase in human heart and vasculature

13.55 - 14.20 H. Vapataalo (Finland):
NO-donors in cardiology

14.20 - 14.40 A. Sagach (Ukraine):
Role of NO in myocardial and skeletal muscle functional hyperaemia

14.40 - 15.00 A. Beręsewicz (Poland):
Beneficial and deleterious effects of NO in ischaemic reperfused rat heart

15.00 - 15.20 S. Chłopicki (Poland):
NO as a mediator of reactive hyperaemia in guinea-pig heart

24th May (Tuesday)

Chairmen: W. Karczewski, A. Koj (Poland)

- 9.00 - 9.45 S. Moncada (UK):
Nitric oxide - state-of-art lecture
- 9.45 - 10.00 Coffee break

Session III

Nitric Oxide and Vasomotion

Chairmen: R. Botting (UK), A. Herman (Belgium), M. Mulvany (Denmark)

- 10.00 - 10.25 H. Drexler (Germany):
NO and human coronary circulation
- 10.25 - 10.50 G. Rubanyi (USA):
Sexual steroid hormones and NO
- 10.50 - 11.15 R. Sprague (USA):
Determinants of NO synthesis in the pulmonary circulation: the role of shear stress
- 11.15 - 11.30 Coffee break

Session IV

Nitric Oxide, Thrombosis and Atherosclerosis

Chairmen: M. Radomski (UK), H. Sinzinger (Austria), A. Trzebski (Poland)

- 11.30 - 11.55 M. Radomski (UK):
Regulation of vascular haemostasis and thrombosis by NO
- 11.55 - 12.20 R. Korbut (Poland):
NO-donors and prostacyclin as fibrinolytic agents
- 12.20 - 12.45 H. Sinzinger, M. Rodrigues, N. Leitinger, W. Rogatti (Austria):
The effect of NO and monocytes/macrophages on LDL oxidation
- 12.45 - 13.05 Aldona Dembińska-Kieć (Poland):
Effects of NO on LDL catabolism in macrophages and lymphocytes
- 13.05 - 13.30 F. Numano, Y. Kishi (Japan):
NO in atherosclerosis
- 13.30 - 15.00 Lunch

Session V

Nitric Oxide in Vascular Shock

Chairmen: A. Koj (Poland), G. Rubanyi (USA), P. Vallance (UK)

- 15.00 - 15.25 C. Thiemeermann (UK):
Role of NO in circulatory shock
- 15.25 - 15.45 D. Rees (UK):
Induction of NO synthase in vivo. Insight into endotoxic shock
- 15.45 - 16.10 P. Vallance (UK):
Pharmacology of NO synthase inhibition

25th May (Wednesday)

Chairmen: R.J. Gryglewski, A. Szczeklik (Poland)

- 9.00 - 9.45 B. Furchgott (USA):
Superoxide anions and nitric oxide - state-of-art lecture
- 9.45 - 10.00 Coffee break

Session VI

Pharmacology of Nitric Oxide

Chairmen: R. Andersson (Sweden), R.J. Gryglewski (Poland), F. Numano (Japan)

- 10.00 - 10.25 M. Feelisch (Germany):
Cardiovascular pharmacology of NO-donors
- 10.25 - 10.40 S. Pedersen, G. Karup (Denmark):
Oxatriazol derivates - a new group of NO-donors
- 10.40 - 11.05 T. Corell (Denmark):
Pharmacology of oxatriazol derivates in blood, cardiovascular and respiratory systems
- 11.05 - 11.30 Coffee break

Session VII

Nitric Oxide: Varia

Chairmen: M. Feelisch (Germany), S. Konturek, B. Lewartowski (Poland)

- 11.30 - 11.55 T. Malinski (USA):
The kinetic of NO and superoxide release - implication for heart and lung transplantation
- 11.55 - 12.20 A. Szczeklik (Poland):
Eicosanoids, NO and other mediators in asthma
- 12.20 - 12.45 A. Lonigro (USA):
Contribution of NO and non-NO EDRFs to relaxation of coronary and hepatic blood vessels
- 12.45 - 13.00 I.I. Stepuro (Belarus):
Oxidation of hemoglobin ferro-forms by sodium nitrite. Interactions of hemoglobin ferro- and ferri-forms with NO and its redox-activated forms
- 13.00 - 14.30 Lunch
- 14.30 - 14.55 S. Konturek (Poland):
NO and other mediators in adaptive changes of gastric blood flow
- 14.55 - 15.20 A.G. Herman (Belgium):
NO and NANC nerves
- 15.20 - 15.40 A. Zembowicz, W. Radziszewski (Poland):
Ebselen and its derivates: a new class of NO synthase inhibitors
- 15.40 - 16.00 J. Bereta (Poland):
Regulation of induction of NO synthase
- 16.00 - 16.20 Closing remarks
- 19.00 Farewell party at the mediaeval courtyard of the University Nowodworski Medical College

Wawelskie, od strony Karzimuena