



14th EFLM SYMPOSIUM FOR BALKAN REGION

Neighbouring Countries: The Same Professional Aim



Programme



Hyatt Regency Beograd, Belgrade, Serbia

May 23–25, 2018

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EUROPEAN FEDERATION OF CLINICAL CHEMISTRY
AND LABORATORY MEDICINE



AUSPICES

14th EFLM Symposium for Balkan Region

*is organized under the Auspices of the
International Federation of Clinical Chemistry (IFCC)*



MEETING ORGANIZERS

Society of Medical Biochemists of Serbia
European Federation of Clinical Chemistry
and Laboratory Medicine (EFLM)

PRINCIPAL SPONSORS

MINISTRY OF EDUCATION, SCIENCE AND
TECHNOLOGICAL DEVELOPMENT OF SERBIA

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Dear colleagues and friends,

The Society of Medical Biochemists of Serbia has the pleasure to welcome you to the 14th EFLM Symposium for Balkan Region being held under the title **»Neighbouring Countries: The Same Professional Aim«**. European Federation for Clinical Chemistry and Laboratory Medicine (EFLM) appointed Belgrade (Serbia) and the Society of Medical Biochemists of Serbia as the organizer of educational symposia for clinical chemists in the Balkan region and as a result of these decision twelve symposia have been organized thus far very successfully. The 14th EFLM Symposium for Balkan Region is organized under the Auspices of the International Federation of Clinical Chemistry (IFCC), Ministry of Education, Science and Technological Development of Serbia and Ministry of Health of Serbia.

The Society of Medical Biochemists of Serbia as a member of the IFCC and EFLM greatly appreciates the role it has in the continuing development of our discipline according to the IFCC and EFLM mission and the Strategic Plan.

The 14th EFLM Symposium for Balkan Region is organized on May 23 to 25th, during XXI Serbian Congress of Medical Biochemistry and Laboratory Medicine with participation of the European and domestic specialists in field of: Actual achievements in Clinical Chemistry and Laboratory Medicine.

On behalf of the Society of Medical Biochemists of Serbia and the European Federation of Clinical Chemistry and Laboratory Medicine (EFLM), we would like to welcome all our distinguished lecturers and thank them for their participation in the 14th EFLM Symposium for Balkan Region. Their presence gives very high recognition and prestige to this Meeting, which will influence the development of clinical chemistry and laboratory medicine in the Balkan region.

Special thanks are addressed to the participants, whose presence is the main stimulus and only reward for those of us who have worked hard in organizing this meeting. We would like to thank all the industrial companies and local representatives participating in the exhibitions and sponsoring the organization of the Symposium.

We hope that the EFLM Symposium in Belgrade will continue its successful progress like in previous years, striving to focus on the new data in the field of laboratory medicine.

To all of you, we wish that you may enjoy these days of science, friendship and hospitality. We hope you will have a happy and pleasant stay in Belgrade.

Symposium President

A handwritten signature in black ink, which appears to read "N. Majkić-Singh". The signature is fluid and cursive.

Prof. Dr Nada Majkić-Singh

December 11, 2017

PROGRAMME

14th EFLM Symposium for Balkan Region NEIGHBOURING COUNTRIES: THE SAME PROFESSIONAL AIM

WEDNESDAY, MAY 23, 2018

First Part

Chairs: *Nada Majkić-Singh, Ana-Maria Šimundić,
Zorica Šumarac*

Introduction: EFLM Symposium for Balkan Region

14:30–16:30 *Lectures*

Coordinators: *Zorica Šumarac and Ana-Maria Šimundić*

LABORATORY MEDICINE: YESTERDAY, TODAY AND TOMORROW

Ana-Maria Šimundić (Zagreb, Croatia)

EXCHANGING PRACTICE IN LABORATORY MEDICINE: PRESENTATION OF THE EFLM PROJECT »EFLMLABX«

Evgenija Homšak (Maribor, Slovenia)

ORGANIZATION OF EXTERNAL QUALITY CONTROL IN LABORATORY MEDICINE IN BOSNIA AND HERZEGOVINA

Jozo Ćorić (Sarajevo, BiH)

THE ROLE OF ADIPOSE TISSUE IN THE MAINTENANCE OF ENERGY HOMEOSTASIS

Dragana Puhalo Sladoje (Foča, Republic of Srpska, BiH)

Discussion

16:30–17:00 *Coffee break*

LABORATORY MEDICINE ACHIEVEMENTS IN
NEIGHBOURING COUNTRIES:
THE SAME PROFESSIONAL AIM

Second part

17:00 – 18:30 Lectures

Coordinators

Vesna Spasojević-Kalimanovska and Sonja Kuzmanovska

IODINE INTAKE SURVEY IN MACEDONIA – A 10 YEARS GAP

Sonja Kuzmanovska (Skoplje, Macedonia)

**INTERFERENCES IN LABORATORY ASSAYS:
FACTS AND ATTITUDES**

Najdana Gligorović-Barhanović (Podgorica, Montenegro)

**EUROPEAN FEDERATION OF CLINICAL CHEMISTRY
AND LABORATORY MEDICINE – WORKING GROUP ON
PREANALYTICAL PHASE: RECOMMENDATION FOR
VENOUS BLOOD SAMPLING**

Zorica Šumarac (Belgrade, Serbia)

Discussion

THURSDAY, 26 MAY 2018

POSTER SESSION

(See example for Summary preparation on page 11)

FRIDAY, 25 MAY, 2018

FORUM OF YOUNG SCIENTISTS

First Part

11:30 – 13:30 Lectures

Coordinators

Miron Sopic and Miljan Savković

**ASSOCIATION OF POLYMORPHISM Tmprss6 A736V
MATRIPTASE-2 AND HFE MUTATIONS WITH HEPcidIN-25
AND IRON STATUS IN PATIENTS WITH PRETERMINAL AND
TERMINAL RENAL FAILURE**

Miljan Savković (Belgrade, Serbia)

**ASSOCIATION OF RESISTIN GENE EXPRESSION AND
RESISTIN CONCENTRATION WITH CORONARY ARTERY
DISEASE**

Jelena Munjas (Belgrade, Serbia)

**THE ROLE OF GENETIC FACTORS IN RESISTANCE TO
CLOPIDOGREL THERAPY**

Dragana Bačković (Belgrade, Serbia)

**VITAMIN B12 STATUS IN PATIENTS AT INCREASED RISK
OF DEFICIENCY – THE RELATIONSHIP BETWEEN SERUM
BIOMARKERS AND MORPHOMETRIC PARAMETERS OF
LEUKOCYTES**

Dragana Totošković (Belgrade, Serbia)

Discussion

13:30 – 14:30 Lunch

14:30 – 15:00 Workshop

FORUM OF YOUNG SCIENTISTS

Second part

15:00–17:00 *Lectures*

Coordinators

Duško Mirković and Snežana Jovičić

CHOLESTEROL HOMEOSTASIS AND CARDIOMETABOLIC RISK

Tamara Gojković (Belgrade, Serbia)

PONI ACTIVITY DISTRIBUTION AMONG HDL SUBCLASSES IN RENAL PATHOLOGY

Milica Miljković (Belgrade, Serbia)

NON-ALCOHOLIC FATTY LIVER DISEASE AND QUALITATIVE AND QUANTITATIVE CHARACTERISTICS OF HIGH-DENSITY LIPOPROTEINS

Jelena Janac (Belgrade, Serbia)

THE QUALITATIVE ANALYSIS OF LDL AND HDL CHOLESTEROL IN CRC DEVELOPMENT RISK ASSESSMENT

Milica Stevanović (Belgrade, Serbia)

Discussion

ROUND TABLE DISCUSSION ON PRESENTED TOPICS

GENERAL INFORMATION

Date and Venue

The Scientific program and exhibition of the 14th EFLM Symposium for Balkan Region in Belgrade will be held in Hyatt Regency Beograd hotel, Milentija Popovića 5, 11070 Belgrade, on 23–25 May 2018. On Thursday, 24th May Poster Session will be organized. The Instructions for Abstract in English language will be attached to this Program.

Registration desk

The registration desk located at the Hotel Hyatt Regency Beograd will be open for the duration of the Symposium from Wednesday, May 23 at 9:00 a.m. to Friday, May 25, 2018 at 6:00 p.m.

Full registration fee 250.00 Euro

Registration fees may be paid in Euros or dinars, by bank transfers or in cash at site (see Registration Form on www.dmbj.org.rs). Registration fee includes participation on XXI Serbian Congress for Medical Biochemistry and Laboratory Medicine with international participation.

The registration fee includes:

- Admission to all scientific sessions
- Admission to exhibition
- Symposium material (programme, abstract book, congress bag, badge, etc.)
- Coffee breaks
- Lunch
- Certificate of attendance

Badges

Badges will be distributed at the registration desk upon arrival. Please attach your badges for admission to all scientific and social activities.

Certificate of participation

The certificate of participation will be issued to those who are properly registered. The certificate of participation will be available at the registration desk and must be picked up just before departure.

Congress language

The official language of the congress will be English.

Visual Equipment

The Meeting hall will be equipped with data video projectors for the speaker's needs.

Exhibition

An exhibition of laboratory equipment and reagents will take place during Meeting.

Internet

The Organizer kindly invites you to visit the Meeting Web pages at www.dmbj.org.rs

Weather

In May Belgrade enjoys a mild climate. The average daily temperature is about 23 °C.

**MONITORING OF TOTAL ANTIOXIDANT STATUS
AND SUPEROXIDE DISMUTASE IN PATIENTS
WITH ACUTE MYOCARDIAL INFARCTION RECEIVING
THROMBOLYTIC THERAPY**

S. Marković, J. Đorđević, N. Majkić-Singh, Z. Vasiljević, D. Mirković

*Institute of Medical Biochemistry, Institute of Cardiovascular Diseases,
Clinical Centre of Serbia, Belgrade, Yugoslavia*

The precise clinical importance of free radicals in acute and chronic myocardial ischaemias has not yet been elucidated. It is believed that free radicals are produced as early as during the occlusions; however this has not yet been confirmed. Superoxide dismutase (SOD, EC 1.15.1.1) is one of the most important enzymes in the antioxidant system. SOD catalyses the transformation of superoxide radicals into hydrogen peroxide which is further metabolized to oxygen and water. Therefore, it is the most important protector against the effects of these radicals. The study concerns the determination of SOD activity in erythrocytes and total antioxidant status (TAS) of plasma obtained from 50 patients with acute myocardial infarction before and 1, 3, 6, 12, 18, 24, 48, 72 hours after thrombolytic therapy using streptase. At the same time other markers of heart disease (CK, LDH) and total protein and albumin were measured. TAS and SOD activities were examined using Randox reagents and centrifugal automated Monarch plus analyzer (Instrumentation Laboratory) at 37 °C and CK, LDH, total protein and albumin using standard biochemical methods. TAS was expressed in mmol/L and SOD in U/gHb. Results showed that SOD activities were significantly lower 1 hour after Streptase administration ($p < 0.05$) and significantly higher levels of TAS were found in patients on thrombolytic therapy ($p < 0.05$) comparing with controls. No significant correlation was found comparing TAS and SOD values with CK and LDH values. During the monitoring decreased total protein and albumin levels were observed. The obtained results indicate the reduction in SOD activity, probably because of hyperproduction of free oxygen radicals. The higher production of free radicals supports the hypothesis which includes these radicals in the pathophysiological mechanism of reperfusion.

SYMPOSIUM SUPPORTERS

The organisation of the 14th Symposium
for Balkan Region supported by:

- European Federation of Clinical Chemistry
and Laboratory Medicine (EFLM)
 - Ministry of Education, Science and
Technological Development of Serbia

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