

УНИВЕРЗИТЕТ У КРАГУЈЕВЦУ
ФАКУЛТЕТ МЕДИЦИНСКИХ НАУКА
У КРАГУЈЕВЦУ

Универзитет у Крагујевцу

Факултет медицинских наука

Наставно-научном Већу Факултета медицинских наука

ПРИМЉЕНО: 29. 05. 2026			
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ЗАХТЕВ ЗА ОДОБРЕЊЕ УЧЕШЋА НА НАУЧНОМ СКУПУ

Поштовани,

Обраћам Вам се са молбом да ми дате сагласност за мој боравак као предаваче по позиву на Конгресу “IACS-NAS · 13th Annual Conference“ (Интернационална академија за кардиоваскуларне науке, Северноамеричка секција), који ће се одржати од 10-12, септембра 2026 у Лујвилу у Кентакију, САД. Наведена сагласност ми је потребна за аплицирање путем конкурса за средства Министарства науке и технолошког развоја и иновација за суфинансирање учешћа истраживача на научним скуповима у иностранству а према званичном позиву МНТР и списку обавезне документације. Уз молбу, прилажем позивно писмо и пријављени сажетак. Унапред се захваљујем на разумевању.

29.05.2026.

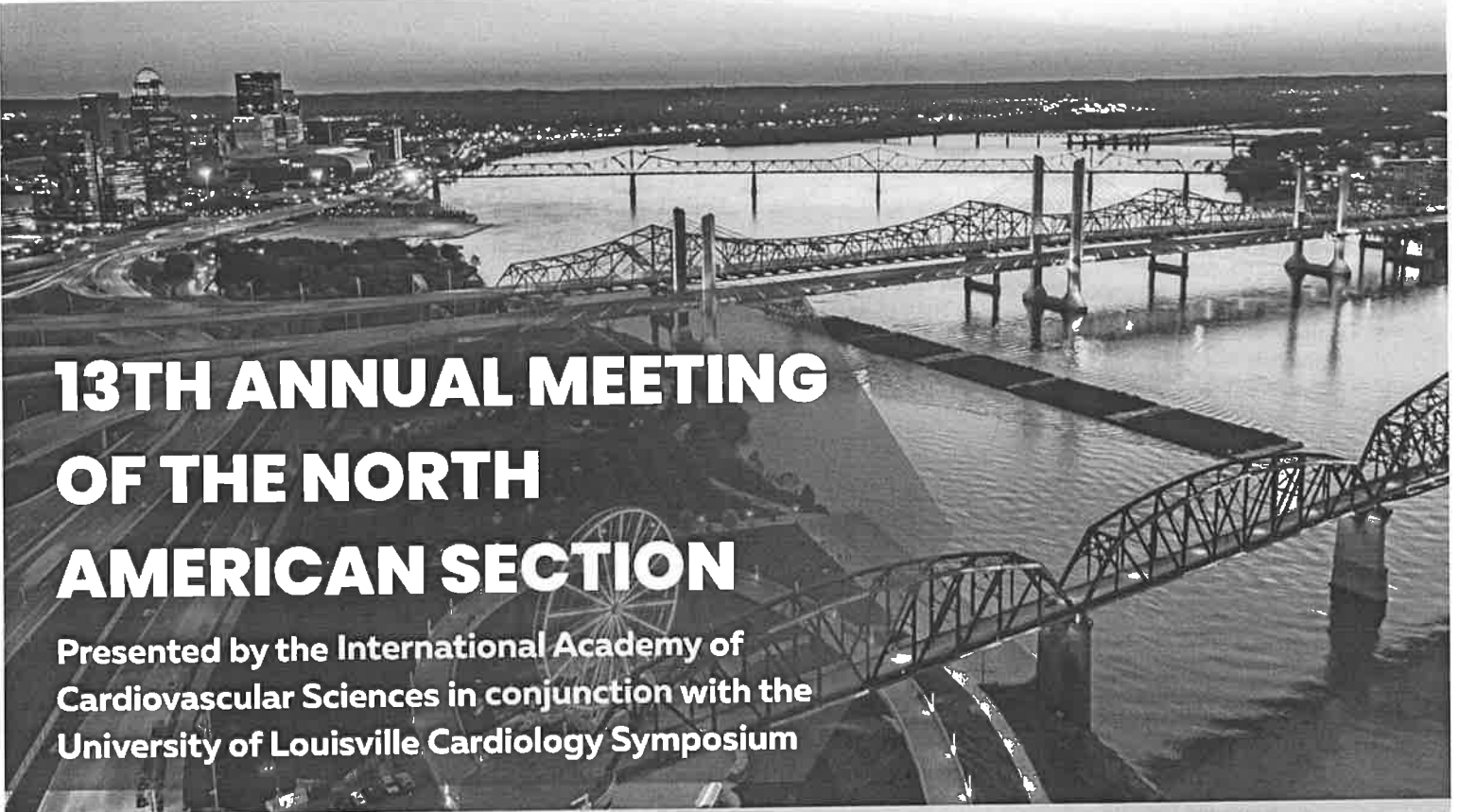
Крагујевац

Проф. др Владимир Јаковљевић

Катедра за физиологију

Факултет медицинских наука у Крагујевцу

Vladimir Jakovlevic



13TH ANNUAL MEETING OF THE NORTH AMERICAN SECTION

Presented by the International Academy of
Cardiovascular Sciences in conjunction with the
University of Louisville Cardiology Symposium

September 10-12, 2026
LOUISVILLE, KENTUCKY

Conference Chair:

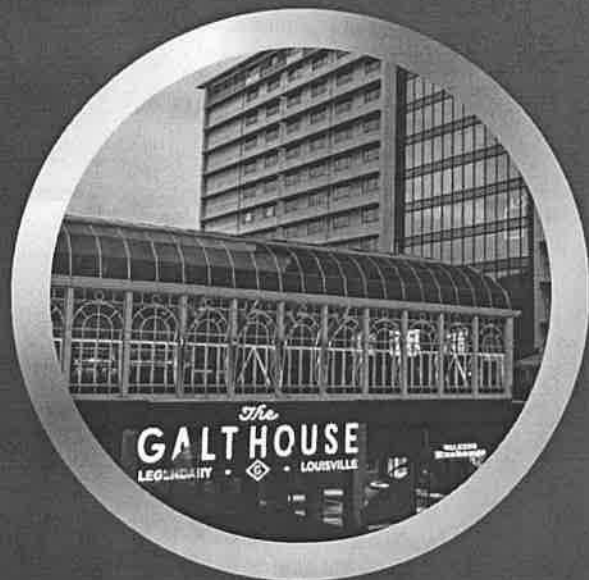
Roberto Bolli, M.D., D.Sc. (Hon), Dr. h. c.

*Professor of Medicine and Physiology
Director, Institute of Molecular Cardiology
Distinguished University Scholar
Legacy Foundation of Kentuckiana
Distinguished Chair in Cardiology
University of Louisville Medical Center*

Conference Co-Chair:

**Dinesh Kalra, M.D., M.B.A., FACC, FAHA,
FSCCT, FSCMR**

*Professor of Medicine
Chief, Division of Cardiovascular Medicine
Endowed Chair, Cardiovascular Innovations
Director of Advanced Cardiac Imaging, Lipid Clinic &
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University of Louisville Medical Center*



The Galt House Hotel



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International Academy of Cardiovascular Sciences North American Section

13th Annual Meeting, September 10-12, 2026
The Galt House Hotel, North 4th Street, Louisville, KY
E-mail: iacs.uoflcardiology@louisville.edu

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January 20, 2026

Vladimir Jakovljevic, MD, PhD
Professor of Medical Physiology
President, IACS-Europe
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Kragujevac, Serbia
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Dear Vladimir,

On behalf of the Scientific Advisory Committee, thank you again for agreeing to speak at the 13th Annual Meeting of the International Academy of Cardiovascular Sciences - North American Section (IACS-NAS) to be held on September 10-12, 2026 at the Galt House in Louisville, KY in conjunction with the University of Louisville Cardiology Symposium.

We have assembled a superb roster of speakers who are leaders in their respective fields (attached). The meeting will feature Plenary Sessions, Keynote Lectures, many symposia covering the most timely and interesting topics in CV research, young investigator/student awards, and an attractive social program. The URL for the conference website is <https://iacs-nas.org/2496-2/>.

At this time, I write to ask you to please email me the title of your presentation at your earliest convenience. The duration of your talk will be 20 minutes, including the Q&A time. Additional details about the specific session time and date will be shared in the future when we finalize the program.

As indicated in my previous email, as an invited speaker you will enjoy complimentary registration, meals, 3 nights of hotel accommodation, and all miscellaneous expenses, although we are unable to cover travel costs.

Rushita Bagchi
Little Rock, AR USA
Sanjiv Dhingra
Winnipeg, MB, Canada
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Houston, TX USA

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Saint John, NB Canada
Ren-Ke Li
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Pomona, CA USA
Srinivas Tipparaju
Tampa, FL USA
Suresh C. Tyagi
Louisville, KY USA

Please let me know if you have any questions. We look forward to your participation in what promises to be an outstanding meeting!

Sincerely,



Roberto Bolli, M.D., D.Sc. (Hon), Dr. h. c.

Conference Chair

Professor of Medicine and Physiology

Distinguished University Scholar

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Director, Institute of Molecular Cardiology

Editor-in-Chief, *Molecular and Cellular Biochemistry*



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Tucson, AZ USA

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Pomona, CA USA
Srinivas Tipparaju
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Suresh C. Tyagi
Louisville, KY USA

Abstract

The effects of hyperbaric oxygenation on cardiac function and redox status in rats with experimental autoimmune myocarditis

Background: Experimental autoimmune myocarditis is an inflammatory cardiac disease with traits of immune-mediated myocardial injury, oxidative stress, and impaired cardiac function. Hyperbaric oxygen therapy, which involves administration of 100% oxygen under increased atmospheric pressure, has been proposed as a strategy to improve tissue oxygenation and modulate inflammatory and oxidative pathways.

Aim: This study investigates the effects of HBOT on cardiac function, oxidative stress, and antioxidant capacity in rats with experimental autoimmune myocarditis.

Methods: Experimental autoimmune myocarditis was induced in 7-week-old Dark Agouti rats (200 ± 20 g) using cardiac myosin and Freund's adjuvant. Animals underwent hyperbaric oxygen therapy at 2.6 ATA for 3 weeks. Oxidative stress markers, antioxidant enzyme activity, and different morphometric parameters were evaluated during both acute (21 days) and chronic (42 days) phases of myocarditis.

Results: Acute myocarditis was associated with increased H_2O_2 and TBARS levels, reduced NO_2 bioavailability, and impaired antioxidant defenses. HBOT significantly restored NO_2 concentrations during the acute phase and prevented the chronic increase in H_2O_2 observed in untreated myocarditis animals. Although TBARS levels were elevated in hyperbaric oxygen therapy treated rats during acute disease, values decreased significantly during the progression to the chronic phase. It also significantly increased catalase and superoxide dismutase activity and preserved reduced glutathione levels, indicating enhanced endogenous antioxidant capacity. Furthermore, hyperbaric oxygen therapy reduced heart weight-to-body weight ratio during acute myocarditis, suggesting attenuation of inflammatory cardiac remodeling.

Conclusion: Hyperbaric oxygen therapy improves redox homeostasis and antioxidant defense mechanisms in experimental autoimmune myocarditis while reducing oxidative remodeling and early cardiac injury. These findings support the potential therapeutic value of HBOT in inflammatory myocardial disease.

Keywords: autoimmune myocarditis, hyperbaric oxygen therapy, oxidative stress, antioxidant defense, cardiac remodeling

