

V CONGRESS OF THE SERBIAN GENETIC SOCIETY

BOOK OF ABSTRACTS

KLADOVO, Serbia,
28 September-02 October 201

Publisher

Serbian Genetic Society, Belgrade

www.dgsgenetika.org.rs

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Number of copies printed

350

Printing

Akademski izdanja, Belgrade

ISBN 978-86-87109-10-0

Design: Elda Stanković

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WELCOME TO V CONGRESS OF THE SERBIAN GENETIC SOCIETY!

Dear colleagues,

Welcome to the 5th Congress of the Serbian Genetic Society. The Serbian Genetic Society (SGS) has been founded in 1968 and the first Congress organized by the SGS was held 20 years ago in Vrnjacka Banja. Since then, the Congress of Serbian Genetic Society is held every five years. Over the past 20 years, the Congress has grown from a national to an international meeting. On this occasion we will have participants from 26 countries, so we believe that this conference will successfully provide a platform for regional and international researchers and professionals in genetics to have a productive dialogue and share their views.

The aim of the Congress is to reflect on progress made in genetics, to celebrate the best of contemporary research and to anticipate future developments in the discipline.

The Congress will focus on wide range of topics organized in 8 sessions: Human Genome Variation, Medical Genetics, Genetic Toxicology: From Cell to Ecosystem, Adaptation to Changing Environments, Genetic Diversity, Phylogeny and Conservation, Methodology in Genetic Research, Pre Breeding and Breeding, New Techniques in Breeding. The programme will include 21 plenary lectures, 44 oral and 255 poster presentation and also, a special feature of the Congress will be a roundtable on novel food.

More than 300 participants are expected to attend this year's Congress. Many of the presentations will accordingly be in lecture-like settings, but we hope that there will also be ample opportunities for informal interaction outside the scheduled sessions. We hope that participants will have opportunity not only to attend presentations of cutting-edge research, but also through those interactions to launch new projects and to spend time with co-authors.

The successful organization of the Congress has required the talents, dedication and time of many members of the Scientific and Organizing committees and strong support from sponsors.

I hope that you will find the Congress both pleasant and valuable, and also enjoy the cultural and natural beauty of Kladovo and National park Djerdap.

Yours sincerely,



Branka Vasiljevic
Chair of the Scientific Committee

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weak hydrogen bonds

sugar phosphate backbone

deoxyribose

I-08 Poster

The IL-1 β and IL-1Ra gene polymorphisms and chronic inflammation of the middle ear

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Constitutional polymorphisms in the proinflammatory cytokine genes influence the individual cytokine secretion levels, the course and severity of inflammation. Aim of our study was to investigate the association of IL-1 β +3953 C/T and IL1-Ra86 bp VNTR gene polymorphisms with the development of chronic otitis media (COM) in 144 patients and 103 controls. Frequencies of the alleles and genotypes of the IL-1Ra gene polymorphism were significantly different between the patients and controls (alleles: $p=0.003$; genotypes: $p=0.0001$). Non-carriers of IL-1Ra allele 2 had significantly higher risk for COM occurrence ($p=0.002$; OR=2.98; $\pm 95\%CI$, 1.68-5.26). This allele is a potential protective genetic marker for COM.

Keywords: otitis media, gene, polymorphism, IL-1 β , IL-1Ra