

V CONGRESS OF THE SERBIAN GENETIC SOCIETY

BOOK OF ABSTRACTS

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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-18 Poster

Toll like receptors 2 and 4 polymorphisms in chronic otitis media

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Toll like receptors (TLRs) are the pattern recognition receptors, important for the innate immune system, the first line of defense against bacterial infections which are the main cause of otitis media (OM). Our aim was to investigate the association of TLR4 (Thr399Ile and Asp299Gly) and TLR2 (Arg753Gln) most common polymorphisms with OM prevalence as well as with morphologic changes of middle ear during chronic otitis media. We had 111 controls and 186 patients divided into three groups of COM: nonsuppurative OM, suppurative OM and cholesteatoma. Frequencies of the genotypes of the TLR 2 gene polymorphism were significantly different between men and women having nonsuppurative OM ($p=0.03$).

Keywords: chronic otitis media, gene, polymorphism, TLR2, TLR4