

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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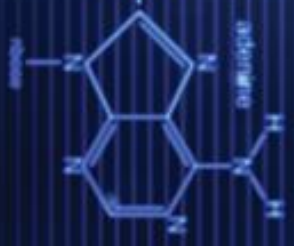
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weak hydrogen bonds

sugar phosphate backbone

deoxyribose

I-22 Poster

Polymorphism rs10757278 in 9p21 region is associated with severe carotid atherosclerosis in sex specific manner: Preliminary results

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Genome wide association studies have recognized the 9p21 rs10757278 polymorphism as a significant independent genetic prognostic marker for coronary artery disease. The aim of this study was to explore possible association of the rs10757278 polymorphism with advanced carotid atherosclerosis (CA) in the population of Serbia. The study group included 147 controls and 428 patients consecutively admitted for carotid endarterectomy. 9p21 rs10757278 polymorphism was genotyped using TaqMan technology on 7500 ABI Real Time PCR. There was no significant association of this polymorphism and CA, either in study group overall or in males. The GG genotype, according to recessive model of inheritance (AA+AG vs. GG), was significantly associated with advanced CA in females only (OR=2.15, 95% CI 1.07-4.29, p=0.03). Preliminary results in this study suggest that rs10757278 GG genotype might be a significant predictive sex-specific marker for advanced CA in the population of Serbia.

Keywords: carotid atherosclerosis, 9p21, polymorphism