



**PROCEEDINGS  
OF  
FIRST INTERNATIONAL  
BIOLOGICAL,  
AGRICULTURAL AND LIFE  
SCIENCE CONGRESS**

**NOVEMBER 7-8, 2019**

**LVIV, UKRAINE**



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**In**

**Lviv, Ukraine**

**Organized by**

**Trakya University**

**ISBN # : 978-975-374-250-4**

**Trakya University Publisher No: 221**

## WELCOME NOTES

You are welcome to our BIALIC Congress that is organized by Trakya University. The aim of our congress is to present scientific subjects of a broad interest to the scientific community, by providing an opportunity to present their work as oral or poster presentations that can be of great value for global science arena. Our goal is to bring three communities, namely science, research and private investment together in a friendly environment of Lviv, Ukraine in order to share their interests and ideas and to benefit from the interaction with each other.

In November 2019, it will be held the first edition of the BIALIC Congress, with ambition of the organizers to make it a periodical event. We are proud to announce that in the BIALIC 2019 will take part more than 300 scientists and researchers from all over the world. There were submitted 376 scientific papers, of which 226 will be presented as oral talks and 150 as poster presentations. The full author list of all submitted papers comprises 936.

Our congress is a premier international science, technology and business forum focusing on Agriculture, Biology and Life Science. The technical sessions highlight invited and volunteer speakers. We love our nature and care about the environment. We wanted to make our congress as much greener as possible, using less paper. The participants' posters were submitted via congress web page and will be presented on electronic posters. Abstract book is published in electronic version in the web which will be provided on each participant.

### **Congress Topics:**

Agriculture, Forestry, Life Sciences, Agricultural Engineering, Aquaculture and Biosystems, Animal Science, Biomedical science, Biochemistry and Molecular Biology, Biology, Bioengineering, Biomaterials, Biomechanics, Biophysics, Bioscience, Biotechnology, Botany, Chemistry, Chemical Engineering, Earth Sciences, Environmental Science, Food Science, Genetics and Human Genetics, Medical Science, Machinery, Pharmaceutical Sciences, Physics, Soil Science.

Lviv is not only a very nice, lovely and historical city at the edge of Europe, but located just at the heart of Eastern Europe region. We are much pleased to host all of you in Lviv, Ukraine.

We would like to thank all of you for joining this congress and we would like to give also special thanks to our sponsors and collaborators for giving us a big support to organize this event.

We wish you nice stay in Lviv, Ukraine!

Prof Dr Yalcin KAYA

Head of the Organizing Committee

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**EDITOR OF THE PROCEEDING BOOK**

Prof Dr Yalcin KAYA

## (28108) ENZIMATIC STATUS IN PATIENTS WITH PANCREATITIS ACUTA

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Pancreatitis acuta is an inflammatory condition of the pancreas. It is commonly caused by biliary tract disease or alcohol abuse. Aim of this study was to analyze the enzymatic status of patients with pancreatitis acuta. In the study were included patients with pancreatitis acuta (n=30; females=14 and males=16). Causes of condition were: biliary tract disease in 53.3% of patients; alcohol abuse (20%), and idiopathic reason (13.3%). Serum and urine samples were taken on admission in the hospital, and at 3th, 7th and 10th day during hospitalization. Changes in concentration of: amylase, lipase, ALT, AST, ALP, GGT and LDH in serum, and amylase and lipase in the urine were analyzed by biochemical analyzer COBAS Integra 400 plus. Obtained results have shown significantly ( $P<0.01$ ) higher values of analyzed enzymes on patients' admission in hospital. Concentrations of serum amylase and lipase were 79.15% and 64.68% higher than referent values. In 80% of patients, concentrations of amylase and lipase in urine samples were 32.04% and 70.70% higher than referent. On admission in hospital higher concentrations of ALT (39.66%), were noted in 86.66% of patients; 100% of patients had higher AST values (43.32%); 46.66% had higher ALP values (36.23%). Higher GGT values (60.60%) were noted in 66.66% patients and 60.00% of patients had higher LDH values (15.11%). On 3th day of hospitalization, values of serum amylase and lipase were still significantly higher than referent ( $P<0.01$ ). Normalization in enzyme concentrations was noted from 7th to 10th day after admission. After 10th day of hospitalization, 93.3% of patients had enzymes values in referent range. Biochemical analysis plays important role in diagnosis of pancreatitis acuta, and most commonly used biochemical markers are serum amylase and lipase.

**Keywords:** enzyme, pancreatitis acuta

