

# International Student Congress

## ISC 2017

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**May 25th – May 27th, 2017**

**Graz, Austria**

**ISBN 978-3-9504088-0-5**

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**WELCOME - VITAJ - FOGADTATÁS - 欢迎- BIENVENIDO - ΚΑΛΩΣ ὉΡΙΞΕΣ** - მისასალმებელი **ÜDVÖZLET BUN**  
**VENIT - ДОбРЕ дошли - ACCUEIL - VELKOMMEN - BENVENUTO - WILKOMMEN - SERVUS - WELCOME - VITAJ**  
**- FOGADTATÁS - 欢迎- BIENVENIDO - ΚΑΛΩΣ ὉΡΙΞΕΣ** მისასალმებელი - **ÜDVÖZLET BUN VENIT - ДОбРЕ**  
**дошли - ACCUEIL - VELKOMMEN BENVENUTO - -WILKOMMEN - SERVUS - WELCOME - VITAJ - FOGADTATÁS**  
**- 欢迎BIENVENIDO - ΚΑΛΩΣ ὉΡΙΞΕΣ** - მისასალმებელი - **ÜDVÖZLET BUN VENIT - ДОбРЕ дошли ACCUEIL -**  
**VELKOMMEN - BENVENUTO - -WILKOMMEN - SERVUS - WELCOME - VITAJ FOGADTATÁS - 欢迎- BIENVENIDO**  
**- ΚΑΛΩΣ ὉΡΙΞΕΣ** - მისასალმებელი - **ÜDVÖZLET BUN VENIT ДОбРЕ дошли - ACCUEIL - VELKOMMEN -**  
**BENVENUTO - -WILKOMMEN – SERVUS – WELCOME - VITAJ - FOGADTATÁS - 欢迎- BIENVENIDO - ΚΑΛΩΣ**  
**ὉΡΙΞΕΣ** - მისასალმებელი **ÜDVÖZLET BUN VENIT - ДОбРЕ дошли - ACCUEIL - VELKOMMEN - BENVENUTO - -**  
**WILKOMMEN - SERVUS - WELCOME - VITAJ - FOGADTATÁS - 欢迎- BIENVENIDO - ΚΑΛΩΣ ὉΡΙΞΕΣ**  
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**VITAJ - FOGADTATÁS - 欢迎BIENVENIDO - ΚΑΛΩΣ ὉΡΙΞΕΣ** - მისასალმებელი - **ÜDVÖZLET BUN VENIT -**  
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**FOGADTATÁS - 欢迎- BIENVENIDO - ΚΑΛΩΣ ὉΡΙΞΕΣ** - მისასალმებელი - **ÜDVÖZLET BUN VENIT ДОбРЕ**  
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**- VELKOMMEN BENVENUTO - -WILKOMMEN - SERVUS - WELCOME - VITAJ - FOGADTATÁS - 欢迎- ΚΑΛΩΣ**

**WELCOME**

**TO GRAZ !**

**ENJOY THE**

**ISC 2017**





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## **Modulation of the immune response in the oral cavity in atopic disease**

**Ludmila Kryvenko, Amir Shaker Tarawneh, Rozana Nazaryan, Vitaliy Gargin**

Kharkiv National Medical University, Ukraine

Many aspects of asthma, allergic rhinitis and atopic dermatitis remain unexplored including their clinical manifestations in oral cavity.

The aim of our study was to determine the effect of nitric oxide synthase in the inflammatory process of soft tissues in the oral cavity of experimental animals in the modulation of atopic disease.

We modeled atopic process in young animals (rabbits). Obtained specimens of oral cavity were examined histologically and immunohistochemistry was performed.

Histological investigation of slides realized in detection that atopic modeling process is implemented by complex of pathological changes of oral mucosa with the presence of intraepithelial lymphocytes, eosinophils, focal erosive lesions, signs of proliferation of the basal cell layer, moderate development of papillomatous changes. Such histological picture can be interpreted as the development of inflammatory, degenerative, dyscirculatory process. It was found that such changes are accompanied by disturbance of nitric oxide synthase metabolism. The last is characterized by increased activity of inducible nitric oxide synthase more than twice, increased the activity of endothelial nitric oxide synthase in the extravascular space. Inflammatory infiltrate is represented by B-lymphocytes, activated macrophages, eosinophils in the lamina propria and epithelium that is indicated by a sharp increasing in the immunoreactivity of CD23 and CD20 in atopic process.

The obtained results can be used as a basis for the development of preventive measures in patients with atopic diseases, based on the correction of disturbance of nitric oxide metabolism.

