

Draft Preview of Abstract 850526

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European Respiratory Society 2014 International Congress

Abstract Number: 850526**Contact/Presenting Author:** Prof. Inna Kostyuk**Date of Birth** (dd/mm/yyyy): 24/05/1976Is the presenting author a Medical Doctor (MD)? **Yes****ERS Membership Number:** 244337**Other Memberships:**

None Indicated

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Abstract Group: 6.2. Occupational and Environmental Health**Keyword 1:** Immunology **Keyword 2:** Inflammation **Keyword 3:** Occupation**PRESENTATION TYPE:** Yes, I would prefer to present my abstract, if accepted, as a poster.You have only applied for the grants and/or sponsorships displayed below:**ERS Travel Grants for the Best Abstracts on COPD:** Yes, please consider me for grant.

Sponsorship might make me possible to contribute a novel and (I hope) beneficial approach to prevention of at least dust-associated COPD and potentially fatal cardiovascular complications. I started dissertation researches using my own private funds. Thus, if my work is appreciated this will let me use this money in further additional study of interleukin-33, NO synthetases etc. genetic polymorphisms and other researches. Anyway I'll do my best to get to know truth ;)

SY, Oleksiy

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SY, Oleksiy

Ukraine

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General Conflicts of Interests: The Presenting Author has no, real or perceived conflicts of interest that relate to this abstract.

Tobacco-Industry related conflict of interests: I have **NO** relationship of any kind with the tobacco industry (since 1/1/2000) nor will have a link to the tobacco industry before the event to which I have been invited by the ERS to participate in

Title: Immunological issues of occupational chronic obstructive pulmonary disease in combination with arterial hypertension

Prof. Valeriy Kapustnik, occdis@hnmu.org.ua, MD¹, Prof. Inna Kostyuk, occdis@hnmu.org.ua, MD¹ and Dr. Oleksiy Kalmykov, koleksiy@medscience.info, MD¹. ¹Department of Internal and Occupational Diseases, Kharkiv National Medical University, Kharkiv, Ukraine, 61022.

Body: Background: One of actual practical and scientific problems in pulmonology and occupational medicine is often development of occupational bronchitis and its rapid transformation into chronic obstructive pulmonary disease (COPD).

Aims and objectives: The study is dedicated to investigation of immune homeostasis and cytokine system in occupational COPD in combination with arterial hypertension (AH) and assessment of immune inflammation role in the development and progression of associated pathology.

Results: Peculiarities of clinical course of COPD in the relation to presence of combined AH and patients profession were revealed. The disease influence on life quality of dust professions workers from machinebuilding industry was established. It was proved that one of mechanisms of COPD clinical manifestation is the disbalance in immune system. It included the moderate depression of non-specific (phagocytosis activity, nitro blue tetrazolium test, natural killers CD16) and cellular (decrease of T-lymphocytes CD3, increase of lymphocyte migration inhibition

reaction) components of immune system on the background of activation of humoral (increase of IgM, IgG), and in cytokine component – increase of TNF α , IL-4 with decrease of IFN γ levels.

Conclusions:The presence of associated AH in patients with COPD is accompanied by the activation of immunoinflammatory process with boost of humoral answer at the background of cellular immunodepression and more expressed dysbalance in cytokine system. Immunoinflammatory changes are also connected with working conditions and define the peculiarities of clinical manifestation of COPD in different professional groups.

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