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Smoking and Lung Cancer: Cellular and Molecular Differences between Smokers and Never-Smokers

Guest Editors:

Prof. Dr. Piotr Kusnierczyk

Ludwik Hirszfeld Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, ul. Rudolfa Weigla 12, 53-114 Wrocław, Poland

Prof. Dr. Piotr Dziegiel

Department of Histology and Embryology, Department of Human Morphology and Embryology, Wrocław Medical University, Chatubińskiego 6a St, 50-368 Wrocław, Poland

Deadline for manuscript submissions:

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Message from the Guest Editors

Dear Colleagues,

Lung cancer epidemiologic trends reflect the past trends of cigarette smoking to a great extent. Although lung cancer is strongly associated with cigarette smoking, nevertheless only about 15% of smokers get lung cancer, and also some never-smokers develop this malignancy. The proportion of never-smokers among Asian patients is higher than in Caucasians. Other environmental factors include air pollution: occupational; second-hand tobacco smoke; smoke from domestic combustion for heating; radon in uranium miners. There are significant histopathological differences between smokers and never-smokers. Expression of many genes is different in smoking versus never-smoking lung cancer patients. Polymorphisms of several genes have been found to be risk factors in never or light smokers, but tended to be protective in heavy smokers. There are also differences in de novo gene mutations and their frequencies in smokers and never-smokers bearing lung cancer.



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Special Issue



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6-145 Jackson Hall, 321 Church St
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Copenhagen, Copenhagen,
Denmark

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Contact Us

Cells Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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