

Program of the 16th conference “Advances in Pneumology” 9th - 10th December 2022 in Berlin-Germany

<p><u>Conference location:</u> Adina Hotel Berlin Mitte Platz vor dem Neuen Tor 6, 10115 Berlin</p>
<p>1st day of conference Friday 09th December 2022</p>
<p><u>Conference opening 8.30 am – 9.00 am</u></p>
<p><u>Welcome remarks:</u> Prof. Dr. med. Kurt Rasche (GER) and Prof. Dr. med. Mieczyslaw Pokorski (PL)</p> <p><u>Keynote talk:</u> Prof. Dr. med. Torsten Bauer (GER) – Screening for Lung Cancer in the Future</p>
<p><u>Ist session 9.00 am - 11.00 am (8 speeches à 15 min)</u> Lung Function, Cough Chairmen: Mariana Brozmanova (SK) and Adam Hołownia (PL)</p>
<ol style="list-style-type: none"> 1) Vera van Kampen (GER). ATS/ERS spirometry quality criteria in real life. Results of two occupational field studies 2) Vera van Kampen (GER). Serial fractional exhaled nitric oxide measurements may help to identify immunologic occupational asthma in cases with complex exposures 3) Kirsten Sucker (GER). Basic principles of instruments and methods in olfactometry and its strengths and weaknesses - a review 4) Jana Plevkova (SK). Low versus high diversity airway microbiome and its effect on airway defensive reflexes 5) Jana Plevkova (SK). Modulation of cough reflex by female sex hormones and antioestrogens 6) Mariana Brozmanova (SK). The prospect for sodium voltage-gated channel inhibitors to relieve the pathological cough 7) Jozef Mažerik (SK). Effects of trpv4 channel blocker on airway inflammation and airway resistance in experimentally induced model of allergic asthma 8) Joanna Roślan (PL). Marker of nanoparticulate carbon black-induced DNA damage in type ii lung epithelial cells (a549 cell line)
<p>11.00 am – 11.15 am coffee break</p>
<p><u>IInd session 11.15 am - 1.00 pm (7 speeches à 15 min)</u> Respiratory Pathophysiology Chairmen: E.M. Marek (GER) and Kurt Rasche (GER)</p>
<ol style="list-style-type: none"> 9) Maciej Roślan (PL). Cigarette smoke toxicity in human alveolar epithelial cells 10) Agata Niechoda (PL). Air pollution particulate matter differentially activate monocyte and macrophage pathways of inflammation and cancer 11) Artur Nahorecki (PL). Elevated level of serum ENA-78 indicates a link between obstructive sleep apnea and atherosclerosis 12) Karina Gojny (PL). Effects of simulated high-altitude conditions on respiratory tract function in the youth 13) Eike M. Marek (GER). Influence of different face masks on breathing mechanics at rest and during exercise. 14) Kurt Rasche (GER). No gender-specific differences in comorbidities in patients with copd and alpha-1-antitrypsine deficiency 15) Josef Yayan (GER). Risk factors for depression in patients with chronic obstructive pulmonary disease

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<p>1.00 pm – 2 pm lunch break</p>
<p>Keynote talk 2 pm – 2.30 pm</p>
<p>Prof. Dr. med. Nikolaus Netzer (GER) – Human HIF triggered metabolism - possible impact on longer space and commercial flights under moderate hypoxia</p>
<p>IIIrd session 2.30 pm – 4.30 pm (8 speeches à 15 min)</p>
<p>Respiratory infections in the COVID-19 Era</p>
<p>Chairmen: Per Otto Schüller (GER) and Giovanni Barassi (IT)</p>
<p>16) Barassi Giovanni (IT). Integrated rehabilitation thermal protocol in post-COVID patients</p> <p>17) Per Otto Schüller (GER). Effects of complementary intermittent hypoxia-hyperoxia therapy in patients with long COVID</p> <p>18) Eike M. Marek (GER). Influence of environmental conditions on mask microclimate and subjective perception of different mask types for protection against SARS-COV-2</p> <p>19) Edyta Zawłocka (PL). Influenza in children under and over 2 years of age</p> <p>20) Ruediger Siekmeier (GER). Role of wearables in cardiopulmonary diagnostics and treatment.</p> <p>21) Agnieszka Woźniak-Kosek (PL). Use of antigen tests to detect SARS-CoV-2 infection in patients treated at the Military Institute of Medicine National Research Institute in Warsaw</p> <p>22) Agnieszka Woźniak-Kosek (PL). Detection of SARS-CoV-2 and other specific pathogens from respiratory routes in samples collected from patients treated at the Military Institute of Medicine National Research Institute using molecular biology methods</p> <p>23) Daria Springer (PL). Imaging and laboratory diagnostics result as predictors of the disease in COVID-19 patients</p>
<p>4.30 – 4.45 coffee break</p>
<p>IVth session 4.45 pm – 6.30 pm (7 speeches à 15 min)</p>
<p>Breathing Regulation, Sleep Apnea, Airway Obstruction.</p>
<p>Chairmen: Camilo Di Giulio (IT) and Jana Plevkova (SK)</p>
<p>24) Mieczysław Pokorski (PL). TASK channels in carotid body glomus cells in the rat model of chronic intermittent hypoxia</p> <p>25) Camillo Di Giulio (IT). Aging and Carotid Body</p> <p>26) Alicja Płóciniczak (PL). The different influence of glycemia disturbances on oxidative stress parameters in mild and moderate obstructive sleep apnea males</p> <p>27) Matúš Dohál (SK). Epidemiology and incidence of nontuberculous mycobacterial infection in Slovakia, 2016 - 2021: a nationwide population-based study</p> <p>28) Karina Gojny (PL). Effects of environmental exposure on fractional exhaled nitric oxide in the youth</p> <p>29) Ivan Zila (SK). Heart rate variability in rats subjected to LPS-induced lung injury</p> <p>30) Maros Kolomaznik (SK). Effect of N-acetylcysteine combined with exogenous surfactant in double-hit model of lung injury in rats</p>

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2nd day of conference Saturday 10th December 2022

Vth session 8.30 am – 10.30 am (8 speeches à 15 min)

Lung fibrosis in Context

Chairmdn: **Kurt Rasche** (GER) and **Dariusz Jastrzębski** (PL)

- 31) Sabine Kespohl** (GER). Diagnostic IgG-test tools for hypersensitivity pneumonitis caused by microbial antigens from metal working fluids
- 32) Kristián Pršo** (SK). LC-MS/MS determination of isoniazid, pyrazinamide, and ethambutol as tool for therapeutic drug monitoring
- 33) Daria Springer** (PL). Factors influencing the decision to quit smoking - analysis considering the motivation of patients
- 34) Dariusz Jastrzębski** (PL). Stress and the development of progressing lung fibrosis
- 35) Marcin Sikora** (PL). Impact of pulmonary function, dyspnea, fatigue, and exercise tolerance on daily physical activity in idiopathic pulmonary fibrosis: a pilot study
- 36) Marcin Sikora** (PL). Determinants of health-related quality of life in interstitial lung diseases
- 37) Maciej Roślan** (PL). Cigarette smoke toxicity in human alveolar epithelial cells
- 38) Michał Zieliński** (PL). Adipokines in interstitial lung diseases

10.30 am – 11.00 am coffee break

VIth session 11.00 am – 1.00 pm (8 speeches à 15 min)

Respiration and Environment

Chairmen: **Verena Liebers** (GER) and **Artur Badyda** (PL)

- 39) Artur Badyda** (PL). Long-term exposure to air pollutants in three Polish agglomerations and risk of hospital admissions due to COPD exacerbations
- 40) Artur Badyda** (PL). Differences in lung function in preadolescent children in two cities with different air pollution levels
- 41) Verena Liebers** (GER). Quantification of endotoxin activity – quality control of two different methods (LAL- and rFC test)
- 42) Sabina Kostorz-Nosal** (PL). Forced oscillation technique in patients with lung diseases: our experience and a literature review
- 43) Thiele Vanessa** (GER). Influence of test method (olfactometer vs. Room) and environmental factors on odor detection thresholds
- 44) Adam Hołownia** (PL). Phosphorylation of p53 protein in lung alveolar epithelial cells (a549) pretreated with cisplatin and exposed to urban dust or carbon nanoparticles
- 45) Hanna M. Winiarska** (PL) The impact of blood oxygen saturation on E- selectin, I-selectin and P-selectin concentrations in blood of non-diabetic obstructive sleep apnea
- 46) Ewa Wysocka** (PL). Sleep architecture and metabolic factors in obstructive sleep apnea

1.00 pm – 2.00 pm lunch break

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VIIth Respiratory Infections

2.00 - 4.15 pm (9 speeches a 15 min)

Chairmen: **August Wrotek (PL)** and **Adam Hołownia (PL)**

- 47) Marcin Piorunek (PL). The lower respiratory infection in humans caused by Pasteurella multocida**
- 48) Małgorzata Kobiałka (PL)** Efficiency of RSV rapid diagnostic tests in hospitalized children
- 49) Małgorzata Kobiałka (PL)** Risk factors of severe respiratory syncytial virus (RSV) infection course in hospitalized children
- 50) August Wrotek (PL)** The estimate of parental quality of life loss due to respiratory syncytial virus (RSV) hospitalization
- 51) Alla Portnychenko (UK).** Features and mechanisms of acute lung injury development on the background of type 2 diabetes: the role of hypoxia
- 52) Vladimir Portnichenko (UK).** phase changes in the pattern of respiration, energy metabolism and lunginjury in experimental pneumonia and its correction
- 53) August Wrotek (PL).** The impact of RSV hospitalization on children’s quality of life
- 54) Edyta Zawłocka (PL).** A clinical course of influenza b in hospitalized children
- 55) Hanna M. Winiarska (PL).** IL-6 and CRP serum concentrations in non-diabetic obstructive sleep apnea patients

The End