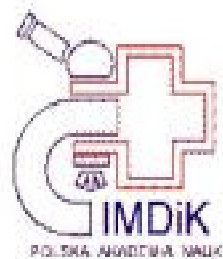


# International Conference „Advances in Pneumology“



**Leipzig 12 – 14 June 2009**  
**NH Hotel**



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**Prof. Dr. Fabian**  
Mayor of the City of Leipzig

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## Welcome to Leipzig

Welcome to this year's conference of „Advances in Pneumology“ in the historic city of Leipzig. Leipzig was founded in the 7th – 9th century. At the beginning it was a Slavic settlement near the confluence of the rivers Elster and Parthe and thus it has never given up on having close acquaintance with its neighbors, particularly in the east. Many names of the surrounding towns and villages cannot deny its Slavic lineage. The city was first mentioned in 1015 as "urbs Libzi" in the chronicle's of bishop Thietmar from Merseburg. Around 1165 Margrave Otto the Rich grants Leipzig its town charter and market rights.

Since then, Leipzig has had an important influence on European commercial and intellectual life for centuries, and its sights are all part of the Leipzig experience. The city's most winning period was during the first 3 decades of the last century when over 700 000 people lived here, and in which cultural life as well as business flourished. During the Second World War and the following decades it suffered heavily. Meanwhile, with a population of about half a million, historical buildings and shopping arcades have been lovingly restored, and visitors can enjoy the newly constructed and restored buildings in the city centre.

“Advances in Pneumology” will be the latest in a long line of important medical events in our city. Leipzig has also a long lived history of scientific research marked by numerous high awards. The most well known Nobel Prize awardee working in Leipzig was Werner Heisenberg (1901 – 1976) who got awarded the Nobel Prize for the creation of quantum mechanics, the application of which had, inter alia, led to the discovery of the allotropic forms of hydrogen. Another awardee was Wilhelm Ostwald (1853 in Riga – 1932) who was awarded in recognition of his work on catalysis and for his investigations in the fundamental principles governing chemical equilibria and rates of reaction.

Today Leipzig has, besides it's university and the associated institutes many other research institutions, among those are the Max-Planck-Institutes, the Helmholtz-Zentrum für Umweltforschung (environmental research), the Institut für Troposphärenforschung (tropospheric research), or the Fraunhofer Institut für Zelltherapie und Immunologie (cell research, therapy, immunology).



**Prof. Dr. Fabian**  
Mayor of the City of Leipzig

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As part (oder member) of the City Council I hereby would like to extend a warm welcome to all delegates of this year`s German-Polish conference in pulmonary medicine which we are proud to be held in our city. The City Council is confident that Leipzig will be a memorable experience both scientifically and socially. I would like to remind you that the city is worthwhile to be visited particularly in the summer months. Everybody needs a break from studying and teaching. Many shops of all sorts and traffic free historic center invite you to stroll through the streets or to enjoy yourself in the evening and at night in one of the numerous restaurants, theaters, the Opera, our Gewandhaus (music hall), cabaret and bars. Leipzig not only offers many attractions during the day but also has a vibrant night life which you will have the opportunity to get a glimpse of on Saturday night.



**Prof. Dr. Karsten Güldner**  
(CEO St. George Hospital Group)

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## **Welcome to Leipzig**

It is a pleasure for me to welcome you to the German-Polish Conference “Advance in Pneumology” here in Leipzig, Germany. Our city is an excellent location for the congress. Leipzig is undergoing a tremendous period of change and renovation.

For me as the CEO of the St. George Hospital Group it is a great honor that our institution plays a substantial part in organizing this congress. Our hospital was founded in 1212 under the name “Spital Sente Jorgen” thus looking back on an almost 800 year long history of care services . The hospice, as it was called in the beginning, belonged to a monastery. The main purpose was to treat patients but also to host travelers, pilgrims and homeless people. In 1439, the city of Leipzig acquired the hospice to accommodate the ill, the infectious and the poor, or abandoned newborns. Over the centuries the hospital suffered from various armed conflicts, but finally it was rebuilt at the north-west corner of the city.

Today it is one of the largest medical institutions of the region, offering high tech medicine and state-of-the-art management for the patients suffering from all sorts of diseases. The St. George Hospital Group (Wunsch Prof. Güldner) has various branches, affiliated bodies and institutes located throughout the city and in its vicinity. Part of it is the Robert-Koch-Hospital, the largest and oldest hospital in the area for patients with pulmonary diseases of any kind. Here, patients with pulmonary diseases are diagnosed and treated, but it also has a research facility which keeps us up-to-date of the most recent and modern scientific knowledge in this field. Intensive collaboration efforts with research institutions such as the Fraunhofer Gesellschaft, the University of Leipzig, the Herzzentrum (heart center), the University of Bonn, and among others internationally with the Trum Tower Hospital in Nanjing underline our claim to be ambiguous and to offer the best patient care available not only today but also in the time to come.



**Prof. Dr. Karsten Güldner**  
(CEO St. George Hospital Group)

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Considering the broad spectrum of scientific and educational activities in pulmonary medicine, I am convinced that Leipzig is the right place to hold a scientific conference like the “Advances in Pneumology”. The exchange of knowledge, the chance to meet other pulmonologists and researchers in the field either in the scientific sessions but also during the breaks or on social events is an integral part of today’s activities in clinical and scientific medicine. As Saxony - with its largest city Leipzig – shares a common boarder with Poland it is just rational to meet here.

I hereby wish our Polish guests as well as the German participants but also all other scientist coming even from other continents to have an inspiring meeting with lots of new insights but also relaxing moments in our historic city.



**Prof. Dr. Adrian Gillissen**  
(Congress Chair)

**Prof. Mieczyslaw Pokorski**  
(Medical Research Center)



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## Welcome address from the congress chairs

This time the annual Polish-German congress "Advances in Pneumology" meets in Leipzig which, as the largest city of Saxony, has close commercial and scientific ties to Poland and other east European countries since centuries. Therefore, we are proud to be selected to host the year's congress. We will aim to highlight the most relevant issues in the diagnosis, treatment and management of the whole spectrum of pulmonary diseases, and to present the latest developments in basic and clinical research.

As Swedish born Svante Pääbo, director of the Marx-Planck-Institut für evolutionäre Anthropologie (Institute for Evolutionary Anthropology) in Leipzig said in 2001\*: "I find it striking that 10 years ago a geneticist had do endorse the idea that not only the environment but also genes shape human development. Today one feels compelled to stress that there is a large environmental component to common diseases, behavior, and personality traits ! ...". In pulmonary medicine, we know from the research in allergy and immunology for quite a time that only genetic susceptibility combined with environmental exposure cause diseases like asthma. At this meeting, not only the gene-environment interaction but also the effects on pathophysiology and the interaction of extra-pulmonary diseases with the lung will be addressed in detail.

Although the aim of this meeting is to present scientific data and to learn from these, it also is, to intensify existing relations and to build new ones. In a globalized world bilateral as well as multilateral connections and the cooperation of centers of excellence are an essential part of our scientific forthcoming in Poland as well as in Germany.

Aside from the congress, you should take some time to explore the many faces of Leipzig and experience the city's numerous historic venous, enjoy its atmosphere of hospitality and enchanting music, explore the inner city shops and malls including the huge railway station which is the second largest in the world (besides Chicago) also having a big shopping mall. Parks, tree-lined alleys, two lakes in the southern border of the city, latest achievements in art and old as well as new architecture invites you for leisure, making it overall a memorable scientific and social experience.

To all participants and colleagues of the meeting, we the organizers wish you a warm welcome to Leipzig in June 2009.

*\*Cited from: Nigel Calder, Magic Universe, Oxford University Press 2003*

## General Information

### Conference Hotel

NH Hotel Leipzig

Address: Fuggerstrasse 2, D-04158 Leipzig, Germany

Phone: x49-(0)341-52510

Fax: x49-(0)341-5251300

www.nh-hotels.com (search for Leipzig Messe)

E-mail: reservation.nhleipzigmesse@nh-hotels.com



### Travel information

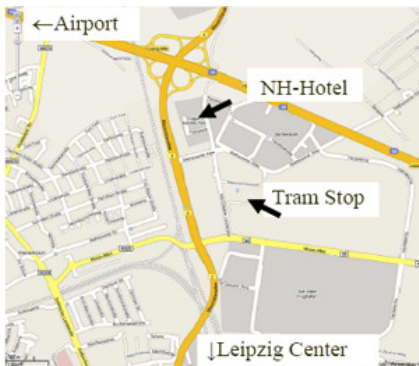
Car: Close hotel location to motorway A14

Air: Connections to Leipzig airport are scarce. Look for: Lufthansa, German-wings (only via Cologne, Stuttgart)

Train: Good (speed) train connections from Frankfurt, Munich, Berlin, Dresden

### Directions

The congress will be held in the NH-Hotel where room capacity is available for all participants. The hotel is located at the northern border of the city of Leipzig close to the motorway A14 (Dresden-Halle) and route B2 within sight of Leipzig-Messe (=trade fair).



Ms. Bertram/Ms. Gerhardt  
Tel.: +49 (0)341 5251189

### By car:

A14 → Leipzig Center (Zentrum) → Leipzig Messe → on Seehausener Allee turn left (street lights) into Alte Dübener Landstrasse → after 700 m turn left into Pelzgasse (sign: "NH-Hotel") to Fuggerstrasse

### From Leipzig Airport:

Take taxi cap (ca. 15-25 EUR)

### Arriving by train from main railway station

Take a taxi cap (ca. 15-25 EUR), or Street tram which leaves in front of the railway station on platform 1 (Line A19 "Neue Messe") → exit last stop ("Leipzig Messe") → ca. 800 m walking distance to north on Dübener Landstrasse (see above).



## **Organizer**

### **Prof. Dr. M. Pokorski**

Department of Respiratory Research, Medical Research Center, Polish Academy of Sciences, Warsaw, Poland



### **Prof. Dr. med. K. Rasche**

Kliniken St. Antonius, Akademisches Lehrkrankenhaus der Heinrich-Heine-

Universität Düsseldorf, Zentrum für Innere Medizin (ZIM), Schwerpunkt

Pneumologie/Allergologie Schlaf- und Beatmungsmedizin Klinik, Wuppertal, Germany



**Kliniken St. Antonius**

## **Congress chair**

Prof. Dr. med. Adrian Gillissen

St. Georg Medical Center, Robert-Koch-Hospital, Leipzig, Germany



## **Start/End of Conference**

Saturday, June 13, 09:00 - Sunday, June 14, 16:00

## **Registration fee**

Registration fee - 100 Euros - includes: participation & conference materials. Registration fee excludes: hotel and travel expenditures.

Late payment after the May 15 deadline - 130 Euros.

Payments on the spot will be possible only in cash.

Optional: publication of full papers, one per registrant, at a cost of 150 Euros per paper. Publication charge to be transferred after paper's acceptance.

## **Certificate of Attendance and CME credits**

The congress will be certified by the Physician's Society of Saxony, through which CME credits will be available. Certificate of Attendance will be given after the meeting.

## **Media Center**

Authors are asked to transfer their lecture files on the laptop computer in the lecture halls as early as they can. Power point (Microsoft) for Windows XP is advisable.

## **Congress bureau**

St. Georg Medical Center, Robert-Koch-Hospital, Nikolai-Rumjanzew-Str. 100, D-04207 Leipzig

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Fax: +49 (0)341 4231203

# Conference Program

Saturday, 13.06.2009

## Lecture Room 1

### Neuronal regulation and cough I

Chair: M. Prokosky, K. Rasche

08.00-08.08

#### **CORTICAL CONTROL OF HERING-BREUER REFLEX IN ANESTHETIZED RATS**

- 2 V. G. Aleksandrov, V. A. Mercuriev, T. G. Ivanova, A. A. Tarasevich, N. P. Aleksandrova

08.10-08.18

#### **DIFFERENTIAL ACTIVATION OF THE VAGAL NOCICEPTIVE SUBTYPES IN THE ESOPHAGUS BY TRPA1 AGONISTS**

- 16 M. Brozmanova, F. Ru, L. Surdenikova, T. E. Taylor-Clark, M. Tatar, M. Kollarik

08.20-08.28

#### **THE TRPA1 AGONISTS EVOKE COUGH IN THE GUINEA PIG**

- 16 M. Brozmanova, M. Tatar, M. Kollarik

08.30-08.38

#### **COUGH REFLEX SENSITIVITY IN VARIOUS PHENOTYPES OF CHILDHOOD ASTHMA**

- 40 M. Jesenak, E. Babusikova, M. Petrikova, T. Turcan, Z. Rennerova, Z. Michnova, Z. Havlicekova, M. P. Villa, P. Banovcin

08.40-08.48

#### **DISTINCTION BETWEEN COUGH AND NON-COUGH SOUNDS BY SPECTRAL AND COMPLEXITY ANALYSIS IN PATIENTS SUFFERING FROM RESPIRATORY DISEASES**

- 53 J. Martinek, A. Bencova, M. Tatar, M. Vrabec, T. Zatko, M. Javorka

08.50-08.58

#### **INFLUENCE OF XANTHINE DERIVATIVES ON COUGH AND AIRWAY REACTIVITY IN GUINEA PIGS**

- 56 J. Mokry, G. Nosalova, D. Mokra

09.00-09.08

#### **RESPIRATORY AND SEROLOGICAL MARKERS OF DIABETIC NEUROPATHY IN CHILDREN**

- 21 M. Čiljaková, J. Vojtková, P. Ďurdík, S. Varechová, Z. Michnová, P. Bánovčín

09.10-09.18

**REFLEX INFLUENCE OF CAROTID BARORECEPTOR INACTIVATION ON RESPIRATORY RESISTANCE IN HUMANS**

45 J. J. Klawe, M. Tafil-Klawe, A. Lewandowski, P. Zalewski

**Neuronal regulation and cough II**

Chair: J. Plevkova, M. Tafil-Klawe

09.20-09.28

**ONCONEURONAL AND ANTI-NEURONAL ANTIBODIES IN PATIENTS WITH NEOPLASTIC AND NON-NEOPLASTIC PULMONARY PATHOLOGIES AND SUSPECTED FOR PARANEOPLASTIC NEUROLOGICAL SYNDROME**

20 S. Michalak, S. Cofta, A. Piątek, J. Rybacka, E. Wysocka, W. Kozubski

09.30-09.09.38

**EXPIRATION REFLEX FROM THE VOCAL FOLDS IN GUINEA PIGS WITH EXPERIMENTAL ALLERGIC RHINITIS**

65 J. Plevkova, I. Poliaček, M. Adamkov, K. Svirlochova, J. Jakus, M. Tatar

09.40-09.48

**C-FOS LIKE IMMUNOREACTIVITY IN THE TRIGEMINAL NUCLEAR COMPLEX FOLLOWING NOXIOUS CHEMICAL STIMULATION OF NASAL MUCOSA IN GUINEA PIGS**

65 J. Plevkova, J. Antosiewics, M. Adamkov, I. Poliaček, J. Jakus, K. Svirlochova, M. Tatar

09.50-09.58

**EXCITABILITY AND RHYTHMICITY OF TRACHEOBRONCHIAL COUGH IS ALTERED BY ASPIRATION REFLEX IN CATS**

75 I. Poliaček, J. Jakuš, M. Šimera, H. Baráni, N. Višňovcová, E. Halašová, Z. Tomori

**10.00 – 10.30 Coffee Brake**

10.30-10.38

**PROVOCATION OF ASPIRATION REFLEXES AND THEIR EFFECTS ON THE PATTERN OF COUGH AND REFLEX APNEA IN CATS**

81 I. Poliaček, Z. Tomori, M. Šimera, H. Baráni, N. Višňovcová, E. Halašová, V. Donič, J. Jakuš

10.40-10.48

**IMPAIRMENT OF THE BAROREFLEX CONTROL OF HUMAN RESPIRATORY RESISTNCE WITH AGE**

78 M. Tafil-Klawe, J. J. Klawe, P. Zalewski, A. Lewandowski

## Exhaled breath

Chair: P. Pääkkö, A. Gillissen

*10.50-10.58*

### **EXHALED NITRIC OXIDE - CIRCADIAN VARIATION IN HEALTHY SUBJECTS**

5 M. Antosova, A. Bencova, A. Psenkova, D. Herle, E. Rozborilova

*11.00-11.08*

### **EXHALED NITRIC OXIDE, CARBON MONOXIDE, AND OTHER CHARACTERISTICS OF ASTHMATIC CHILDREN**

11 P. Banovcin, M. Jesenak, Z. Michnova, E. Babusikova, S. Nosal, J. Mikler, J. Fabry, M. Barreto

*11.10-11.18*

### **EARLY DETECTION OF HYPOTHYREOSIS AND MONITORING OF MEDICATION USING DIFFERENTIAL MOBILITY SPECTROMETRY (DMS)**

12 G. Becher, A. Kikowatz, S. Dietze, W. Steinhaeuser, E. Beck

*11.20-11.28*

### **ION MOBILITY SPECTROMETRY FOR METABOLIC PROFILING OF EXHALED BREATH**

10 M. Jünger, W. Vautz, A. Bunkowski, M. Westhoff, P. Litterst, B. Bödeker, J. I. Baumbach

*11.30-11.38*

### **LEUKOTRIENE B<sub>4</sub>, 8-iso-PROSTAGLANDIN F<sub>2α</sub> AND pH IN EXHALED BREATH CONDENSATE FROM ASYMPTOMATIC SMOKERS**

37 F. Hoffmeyer, V. Harth, J. Bünger, T. Brüning and M. Raulf-Heimsoth

*11.40-11.48*

### **H<sub>2</sub>O<sub>2</sub> RELEASE AND ACID-BASE STATUS IN EXHALED BREATH CONDENSATE OF YOUNG AND HEALTHY SUBJECTS AT REST AND MAXIMAL EXERCISE**

52 E. Marek, J. Volke, P. Platen, K. Mückenhoff, W. Marek

*11.50-11.58*

### **VARIABILITY OF HYDROGEN PEROXIDE AND pH IN EXHALED BREATH CONDENSATE IN COPD**

31 M. Pradhan-Drews, G. Vacca, A. Gillissen

*12.00-12.08*

### **TIME SERIES OF BREATH ANALYSIS WITH ION MOBILITY SPECTROMETRY (IMS) IN OBSTRUCTIVE SLEEP APNEA**

84 M. Westhoff, P. Litterst, A. Bunkowski, B. Bödeker, W. Vautz, J. I. Baumbach

### **Smoking, COPD and Dyspnoea I**

*Chair:* R. Siekmeier, J. Pollack

*12.10-12.45*

63 **Special Lecture:** P. Pääkkö

#### **COMMON NEOPLASMA OF LUNG AND MORPHOLOGICAL VARIANTS**

*12.50-12.58*

#### **INFLUENCE OF SMOKING AND BODY WEIGHT ON ADIPOKINES IN MIDDLE AGED WOMEN**

15 S. Bergmann, R. Siekmeier

### **13.00 – 14.00 Lunch Break**

### **Smoking, COPD and Dyspnoea II**

*Chair:* A. Reznick, R. Siekmeier

*14.00-14.08*

#### **TOBACCO ABUSE AND PHYSICAL ACTIVITY AMONG MEDICAL STUDENTS**

30 A. Gawlikowska-Sroka, E. Dzieciołowska-Baran, J. Szczurowski, E. Kamieńska, F. Czerwiński

*14.10-14.18*

#### **LONG-TERM TREATMENT WITH INDACATEROL ONCE DAILY IMPROVES LUNG FUNCTION AND REDUCES EXACERBATION RATES IN COPD**

31 A. Gillissen

*14.20-14.28*

#### **RELATIONSHIP BETWEEN AIRWAY INFLAMMATION AND REMODELING IN PATIENTS WITH ASTHMA AND COPD**

33 K. Gorska, R. Krenke, J. Kosciuch, P. Korczynski, M. Zukowska, J. Domagała-Kulawik, M. Maskey-Warzechowska, R. Chazan

*14.30-14.38*

#### **RELATIONSHIP BETWEEN AIRWAY WALL THICKNESS ASSESSED BY HRCT AND LUNG FUNCTION IN PATIENTS WITH ASTHMA AND COPD**

48 J. Kosciuch, R. Krenke, K. Gorska, M. Zukowska, M. Maskey-Warzechowska, R. Chazan

14.40-14.48

**SECOND HAND SMOKING EXPOSURE DURING INFANCY  
CONTRIBUTE TO INDIVIDUAL SUSCEPTIBILITY FOR COPD  
DEVELOPMENT**

31 D. Beyer, A. Gillissen

14.50-14.58

**CARDIOVASCULAR COMORBIDITIES IN COPD PATIENTS**

34 M. Grabicki, I. Brodnicka, H. Batura-Gabryel, A. Bobkiewicz, B. Kuznar-Kaminska,  
B. Brajer

15.00-15.08

**DYSPNEA IN PATIENTS WITH END-STAGE LUNG DISEASES  
REFERRED FOR LUNG TRANSPLANTATION**

39 D. Jastrzębski, K. Kowalski, D. Ziora, R. Rauer, J. Wyrwol, A. Margas, W.  
Lutogniowska, B. Książek, M. Maksymiak, A. Krzywiecki, J. Kozielski

73 15.10-15.18

**RELEVANCE OF THE  $\beta_2$ -RECEPTOR GENPOLYMORPHISM IN COPD**

K. Schwabe

**Oxidants and Antioxidants I**

*Chair:* M. Pokorski, N. Prabhakar

15.20-15.45

41 **Special Lecture:** U. Juergens

**NEW INSIGHTS FOR 1.8-CINEOL AS CO-MEDICATION IN COPD**

15.50-15.58

**COULD THE CONCENTRATION OF MATRIX METALLOPROTEINASE-9  
IN THE SERUM OF COPD PATIENTS CORRELATE WITH THE STAGE  
OF DISEASE?**

51 B. Brajer, B. Kuźnar-Kamińska, H. Batura-Gabryel, A. Nowicka, M. Grabicki, A.  
Szczepanik

16.00-16.08

**INFLUENCE OF IRON CHELATION ON THE HYPOXIC VENTILATORY  
RESPONSE *IN VIVO***

4 J. Antosiewicz, M. Pokorski

**16.10 – 16.30 Coffee Break**

16.30-16.38

**ASSOCIATIONS OF OXIDATIVE STRESS AND GST-T1 GENE WITH CHILDHOOD ASTHMA BRONCHIALE**

6 E. Babusikova, M. Jesenak, P. Kirschnerova, P. Banovcin, D. Dobrota

16.40-16.48

**ENDOTHELIUM-DERIVED MARKERS AND ANTIOXIDANT STATUS IN THE BLOOD OF OBSTRUCTIVE SLEEP APNEA MALES**

20 S. Cofta, E. Wysocka, S. Michalak, T. Piorunek, H. Batura-Gabryel, L. Torliński

16.50-16.58

**EFFECTS OF LONG-TERM OXYGENATION TREATMENTS ON  $\alpha$ -KETOGLUTARATE DEHYDROGENASE ACTIVITY AND OXIDATIVE MODIFICATIONS IN MITOCHONDRIA OF GUINEA PIG HEART**

44 P. Kaplan, Z. Tatarkova, I. Engler, A. Calkovska, D. Mokra, A. Drgova, M. Kovalska, J. Lehotsky, D. Dobrota

17.00-17.25

**PLASTICITY OF ACUTE O<sub>2</sub> SENSING BY INTERMITTENT HYPOXIA**

67 N. R. Prabhakar

17.30-17.38

**OXIDATIVE STRESS AND IRON METABOLISM: IS THERE A COMMON LINK REGARDING THE HYPOXIC VENTILATORY RESPONSE?**

70 A. Rekawek, J. Antosiewicz, M. Pozdzik, M. Pokorski

17.40-18.00

**THE EFFECT OF CIGARETTE SMOKE BORNE REACTIVE NITROGEN SPECIES ON SALIVARY A-AMYLASE ACTIVITY AND PROTEIN MODIFICATIONS**

83 D. Weiner, E.V. Khankin, Y. Levy, A. Z. Reznick

**18.05 End of Session  
20.00 Dinner Pary SPIZZ**

Saturday, 13.06.2009

## Lecture Room 2

### Clinical Studies I

Chair: U. Demkov, J. Mokry

- 85 08.00-08.25  
**Special Lecture: R. Wiewroth**  
**LUNG CANCER**
- 9 08.30-08.38  
**DISPOSITIONAL OPTIMISM AND COPING WITH PAIN**  
K. Bargiel-Matusiewicz
- 36 08.40-08.48  
**ALTERATION OF CARDIAC AUTONOMIC CONTROL IN ADOLESCENTS WITH PRIMARY HYPERTENSION**  
Z. Havlíčková, I. Tonhajzerová, A. Jurko Jr., M. Jeseňák, P. Ďurdík, S. Nosál, K. Zeleňák, M. Antošová, P. Bánovčín
- 82 08.50-08.58  
**RESPIRATORY SINUS ARRHYTHMIA IS REDUCED IN ADOLESCENT MAJOR DEPRESSIVE DISORDER**  
I. Tonhajzerova, I. Ondrejka, M. Javorka, P. Adamik, Z. Turianikova, V. Kerna, K. Javorka
- 71 09.00-09.08  
**STATISTICAL ANALYSIS OF EXACERBATIONS IN COPD TRIALS**  
H. Schmidt, A. Gillissen, T. Glaab
- 39 09.10-09.18  
**IS PULMONARY TUBERCULOSIS (TB) A FREQUENT COMPLICATION OF IDIOPATHIC PULMONARY FIBROSIS (IPF)?**  
G. Kaczmarczyk, D. Jastrzębski, D. Ziora, J. Kozielski
- 58 09.20-09.28  
**DERMATOMYOSITIS MASQUERADING AS PULMONARY EMBOLISM**  
R. M. Mróz, M. Korniluk, E. Chyczewska
- 09.30-09.38  
**FLOW CYTOMETRY VS. IMMUNOHISTOCHEMISTRY IN DETERMINING CD4+/CD8+ CELLS RATIO IN BAL FROM PATIENTS WITH INTERSTITIAL LUNG DISEASES**
-



77 A. Szpechcinski, P. Kopinski, A. Rozy, P. Jagus, M. Kedzior, M. Krawczyk,  
D. Giedronowicz, M. Szolkowska, J. Chorostowska-Wynimko

09.40-09.48

**ANGIOGENIC ACTIVITY OF SERA FROM INTERSTITIAL LUNG DISEASE PATIENTS IN RELATION TO CLINICAL, RADIOLOGICAL, AND FUNCTIONAL CHANGES**

89 T. M. Zielonka, U. Demkow, J. Kus, M. Filewska, K. Zycinska, B. Bialas, E. Radzikowska, P. Remiszewski, J. Szopinski, A. Soszka, K.A. Wardyn, E. Skopinska-Rozewska

09.50.09.58

**DIAGNOSTIC UTILITY OF SELECTED PLEURAL FLUID AND SERUM MARKERS IN THE DIFFERENTIATION BETWEEN MALIGNANT AND NON-MALIGNANT PLEURAL EFFUSIONS**

46 P. Korczyński, R. Krenke, A. Safianowska, K. Górská , B. M. Abou Chaz, M. Maskey-Warzęchowska, A. Kondracka, J. Nasiłowski, R. Chazan

**10.00-10.30 Coffee Break**

**Clinical Studies II**

*Chair:* K. Zycinska, H. Frohnhofen

10.30-10.55

72 **Special Lecture:** J. Schreiber

**BRONCHOPULMONARY MANIFESTATIONS OF MALIGNANT HEMATOLOGICAL DISORDERS**

11.00-11.08

**REAL-TIME PCR ASSESSMENT OF PLASMA DNA LEVELS IN NON-SMALL CELL LUNG CANCER VS. CHRONIC RESPIRATORY INFLAMMATORY DISEASES AND HEALTHY CONTROLS**

77 A. Szpechcinski, M. Chabowski, J. Zaleska, M. Dancewicz, P. Kopinski, A. Rudnicka, E. Puscinska, J. Kowalewski, T. Orłowski, J. Chorostowska-Wynimko

11.10-11.18

**DEFECTS IN NASAL CAVITY STRUCTURE: THE OCCURRENCE OF DEVIATION OF THE NASAL SEPTUM IN CHILDREN, ADOLESCENTS, AND ADULTS IN WESTERN POMERANIA PROVINCE OF POLAND**

80 I. Teul, S. Baran, W. Zbislawski

11.20-11.28

**CORRELATION BETWEEN HELICOBACTER PYLORI**

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**INFECTIO N AND PULMONARY WEGENER'S  
GRANULOMATOSIS ACTIVITY**

91 K. Zycinska, K. A. Wardyn, Z. Zycinski, T. M. Zielonka

*11.30-11.38*

**CO-TRIMOXAZOLE AND PREVENTION OF RELAPSES IN PR3-  
ANCA POSITIVE VASCULITIS WITH PULMONARY  
INVOLVEMENT**

91 K. Zycinska, K. A. Wardyn, T. M. Zielonka, R. Krupa, M. Straburzynski

*11.40-11.48*

**CLINICAL IMPLICATION OF SERUM THROMBOMODULIN IN  
PR3-ANCA ASSOCIATED VASCULITIS WITH PULMONARY  
INVOLVEMENT**

91 K. Zycinska, K. A. Wardyn, T. M. Zielonka, R. Krupa, M. Straburzynski

**Sleep disorder, Ventilation and Aerosol Therapy I**

Chair: K. Rasche, Z. Tomori

*11.50-12.05*

69 **Special Lecture:** K. Rasche, M. Orth

**SLEEP AND BREATHING IN IDIOPATHIC PULMONARY  
FIBROSIS**

*12.10-12.18*

**SNORING: A PLACE OF LARYNGOLOGIST IN DIAGNOSING AND  
TREATING ITS CAUSES**

26 E. Dzieciołowska-Baran, A. Gawlikowska-Sroka, F. Czerwinski

*12.20-12.28*

**FEASIBILITY OF THE EPWORTH SLEEPINESS SCALE (ESS) IN A  
SAMPLE OF GERIATRIC PATIENTS**

29 H. Frohnhofen, V. Willmann, H. C. Heuer, A. Firat

*12.30-12.38*

**IMPACT OF TYPE OF TREATMENT FOR SLEEP APNEA ON  
ACTIVITIES OF DAILY LIVING IN A SAMPLE OF ELDERLY  
PATIENTS WITH SEVERE SLEEP APNEA**

29 H. Frohnhofen, H. C. Heuer, A. Firat

*12.40-12.48*

**ACCEPTANCE OF NCPAP THERAPY IN PATIENTS OF A  
GERIATRIC REHABILITATION UNIT**

29 H. Frohnhofen, B. Höltnann

12.50-12.58

**SEVERE NOCTURNAL CARDIAC ARRHYTHMIAS CAUSED BY SLEEP APNEA-INDUCED HYPOXEMIA IN ADULT MALES**

81 E. Szabóová, Z. Tomori, P. Szabó, S. Grešová, V. Donič

**13.00 – 14.00 Lunch Break**

**Sleep disorder, Ventilation and Aerosol Therapy II**

Chair: T. Zielonka, A. Fischer

14.00-14.08

**OPTIMISATION OF AEROSOL THERAPY BY INDIVIDUALIZED CONTROLLED BREATHING: EFFECTS IN INHALATION STUDIES AND PATIENT CARE**

27 A. Fischer, G. Scheuch, R. Siekmeier

14.10-14.18

**TREATMENT OF SYSTEMIC DISEASES BY INHALATION OF BIOMOLECULE AEROSOLS**

74 R. Siekmeier, G. Scheuch

14.20-14.28

**CENTRAL AND COMPLEX SLEEP APNEA WITH NORMAL BNP. PREVALENCE DATA AND EFFECT OF ADAPTIVE SERVOVENTILATION**

84 M. Westhoff, P. Litterst

14.30-14.38

**INFLUENCE OF ADAPTIVE SERVOVENTILATION ON BNP IN SLEEP APNEA PATIENTS WITH MILD SYSTOLIC AND DIASTOLIC HEART FAILURE**

84 M. Westhoff, P. Litterst

14.40-14.48

**INFLUENCE OF SLEEP APNEA SYNDROME ON ADIPOCYTE BIOMARKERS IN MALES WITH ELEVATED BODY MASS INDEX**

87 E. Wysocka, S. Dziegielewska, S. Cofta, J. Goździk, L. Torliński, H. Batura-Gabryel

## Cells, Genes and their Proteins I

Chair: M. Tatar, B. Pyrzak

14.50-14.58

### TREG CELLS IN BRONCHOALVEOLAR LAVAGE FLUID AND INDUCED SPUTUM OF PATIENTS WITH ACTIVE PULMONARY SARCOIDOSIS AND HYPERSENSITIVITY PNEUMONITIS

47 M. Korniluk, R M. Mroz, A. Stasiak-Barmuta, E. Chyczewska

15.00-15.08

### THE INFLUENCE OF PSYCHOLOGICAL STATUS ON THE OCCURRENCE OF RESPIRATORY TRACT INFECTIONS

8 S. Baran

15.10-15.18

### INCREASED PRO-INFLAMMATORY ACTIVITY AND IMPAIRMENT OF HUMAN MONOCYTE DIFFERENTIATION INDUCED BY *IN VITRO* EXPOSURE TO CIGARETTE SMOKE

66 L. Lerner, R. Katz, A. Z. Reznick, S. Pollack

15.20-15.28

### INTRAOPERATIVE LUNG EDEMA MONITORING BY MICROWAVE REFLECTOMETRY

60 K. Nowak, W. Gross, K. Nicksch, C. Hanusch, M. Helbig, P. Hohenberger, M. M. Gebhard, M. Schaefer

15.30-15.38

### NO ASSOCIATION OF LEPR GLN223ARG POLYMORPHISM WITH LEPTIN, OBESITY, OR METABOLIC DISTURBANCES IN CHILDREN

68 B. Pyrzak, A. Wisniewska, A. Kucharska, U. Demkow, M. Wasik

15.40-15.48

### ASSOCIATION BETWEEN METABOLIC DISTURBANCES AND G-174C POLYMORPHISM OF INTERLEUKIN-6(IL-6) GENE IN OBESE CHILDREN

68 B. Pyrzak, A. Wisniewska, A. Majcher, K. Popko, M. Wasik, U. Demkow

17.45-17.55

### INDUCIBLE NO SYNTHASE INHIBITION IN THE EXPERIMENTAL AIRWAY HYPERREACTIVITY

5 A. Strapkova; M. Antosova

16.00 – 16.30 Coffee Break

## Cells, Genes and their Proteins II

Chair: E. Carmeli, D. Zajac

16.30-16.38

### **EXPRESSION OF SELECTED ACID-RESPONSIVE ION CHANNELS IN THE AFFERENT NEURONS INNERVATING THE ESOPHAGUS**

79 L. Surdenikova, F. Ru, M. Tatar, M. Kollarik

16.40-16.48

### **BIOPROPERTIES OF N-OLEOYL-DOPAMINE**

88 D. Zajac, M. Pokorski

16.50-16.58

### **LUNG SURFACTANT ALTERATIONS IN PULMONARY THROMBOEMBOLISM**

18 A. Calkovska, D. Mokra, V. Calkovsky

17.00-17.08

### **SAFETY OF LABORATORY ANALYZERS FOR INFECTION TESTING: RESULTS OF THE MARKET SURVEILLANCE BY THE BFARM UNTIL END-2007**

74 R. Siekmeier, J. Halbauer, W. Mientus, D. Wetzel

17.10-17.18

### **CHANGES IN SURFACE ACTIVITY OF PULMONARY SURFACTANT BY *IN VITRO* AND *IN VIVO* EXPOSURES TO MECONIUM ASSESSED BY CAPILLARY SURFACTOMETER**

55 D. Mokra, A. Drgova, E. Tribulova, I. Saffova, J. Erneyova, A. Calkovska

17.20-17.28

### **EXPRESSION OF MATRIX METALLOPROTEINASE TYPE 2 IN DIAPHRAGM MUSCLES OF YOUNG RATS**

19 E. Carmeli, M. Maor, E. Kodesh

17.30-17.38

### **EFFECTS OF DIESEL EXHAUST PARTICLES ON THE CHEMOTAXIS BETWEEN MACROPHAGE AND NEUTROPHILE GRANULOCYTES**

13 B. Becher, G. Vacca, R. Dück, U. Juergens, A. Gillissen

17.40-17.48

### **DIVERSE EFFECTS OF MUTATED PAI-1 ON THE BIOLOGICAL ACTIVITY OF LUNG AND PROSTATE CANCER CELLS**

77 J. Chorostowska-Wynimko, M. Kedzior, P. Jagus, R. Struniawski, A. Szpechcinski, B. Gruber, E. Skrzypczak-Jankun, E. Anuszewska, J. Jankun

17.50-17.58

**CIRCULATING ENDOTHELIAL PROGENITOR CELLS ARE INCREASED IN HUMAN SMALL CELL AND NON-SMALL CELL LUNG CANCER AND CORRELATE WITH PROGRESSION OF DISEASE**

60 K. Nowak, N. Rafat, S. Belle, C. Weiß, C. Hanusch, P. Hohenberger, G. Ch. Beck

18.00-18.08

**INSULIN MODULATORY EFFECT ON TCR MEDIATED CALCIUM SIGNALING IN HUMAN LYMPHOCYTES IS BLUNTED IN LONG LASTING DIABETES MELLITUS TYPE 1**

22 U. Demkow, P. Winklewski, O. Potapinska, K. Popko, A. Lipinska, M. Wasik

**18.10 End of Session  
20.00 Dinner Pary SPIZZ**

# Conference Program

Sunday, 14.06.2009

## Lecture Room 1

### Lung function

Chair: W. Marek, N. Aleksandrova

*09.00-09.08*

#### **EFFECTS OF BODY POSITION ON THE VENTILATORY RESPONSE TO HYPERCAPNIA**

23 Zh. A. Donina, G. A. Danilova, N. P. Aleksandrova

*09.10-09.18*

#### **SPIROMETRIC MEASUREMENTS AND ANAEROBIC EFFICIENCY IN CHAMPION CLASS KARATE ATHLETS**

1 W. Adamczyk, M. Tafil-Klawe, P. Ziomanzuk, B. Stankiewicz, M. Cieslicka

*09.20-09.28*

#### **LACK OF CORRELATION BETWEEN RESPIRATORY CHANGES AND COGNITIVE IMPROVEMENT IN ELDERLY WOMEN PARTICIPATING IN PHYSICAL EXERCISE PROGRAM**

90 P. Zlomanczuk, W. Adamczyk, B. Milczarek, K. Dmitruk, G. Chesy, W. Sikorski, T. Zegarski, A. Rakowski, M. Tafil-Klawe

*09.30-09.38*

#### **THE EFFECT OF OXYGEN BREATHING ON INSPIRATORY MUSCLE FATIGUE DEVELOPMENT DURING RESISTIVE LOAD IN CYCLING MEN**

3 M.O. Segizbaeva, N. P. Aleksandrova

*09.40-09.48*

#### **SPIROMETRY IN PRESCHOOL CHILDREN – TIME HAS COME FOR NEW REFERENCE VALUES**

42 H. Kalhoff, R. Breidenbach, H. J. Smith, W. Marek

*09.50-09.58*

#### **TIME FOR NEW REFERENCE VALUES FOR VENTILATORY LUNG FUNCTION**

52 W. Marek, E. Marek, K. Mückenhoff, H. J. Smith, P. Degens, N. Kotschy-Lang, M. Kohlhäufel

10.00-10.08

**LATE CONSEQUENCES OF AIRWAY BURNS ON SPIROMETRY PARAMETERS AND VOICE QUALITY**

- 49 A. J. Krzywiecki, Ł.K. Sikora, M. Misiołek, G. Namysłowski, R. Fira, B. Orecka, D.I. Ziora, D. Jastrzębski, R. Rauer, J. Kozielski

10.10-10.18

**PULMONARY FUNCTION IN PATIENTS WITH PECTUS EXCAVATUM**

- 57 M. Molnár, D. Murgaš, M. Dragula, P. Ďurdík, I. Bacmaňáková, M. Jeseňák

10.20-10.28

**COMPARISON OF FORCED SPIROMETRY AND BODY PLETHYSMOGRAPHY IN METHACHOLINE CHALLENGE TESTS**

- 52 F. Nensa, W. Marek, E. Marek, H. J. Smith, M. Kohlhäufel

10.30-10.38

**QUALITY OF LIFE IN END-STAGE LUNG DISEASE PATIENTS REFERRED FOR LUNG TRANSPLANTATION**

- 39 D. Jastrzębski, W. Lutogniewska, D. Ziora, R. Rauer, B. Książek, M. Maksymiak, K. Kowalski, J. Wyrwol, A. Margas, J. Kozielski

10.40-10.48

**LUNG FUNCTION: OCCUPATIONAL EXPOSURE TO WOOD DUST**

- 8 S. Baran

10.50-10.58

**BIDIRECTIONAL LINK BETWEEN UPPER AND LOWER AIRWAYS IN PATIENTS WITH ALLERGIC RHINITIS**

- 14 A. Bencova, E. Rozborilova, M. Antosova

**11.00 – 11.30 Coffee Break**

**Pediatric diseases and future development II**

Chair: S. Cofta, D. Mokra

11.30-11.38

**THE INFLUENCE OF ALLERGIC DISORDERS ON PHYSICAL DEVELOPMENT**

- 62 R. Pawlinska-Chmara, I. Wronka

11.40-11.48

**IDIOPATHIC PULMONARY HEMOSIDEROSIS IN A 9-YEARS OLD GIRL**

- 43 E. Kamienska, A. Gawlikowska-Sroka, B. Glura, A. Pogorzelski, T. Urasinski



*11.50-11.58*

**SECURING THE AIRWAY IN A CHILD WITH TRACHEAL AGENESIS**

- 59 D. Murgas, M. Ciljak, M. Dragula., K. Matasova, M. Zibolen M., S. Nosal, J. Hamzik

*12.00-12.08*

**ALVEOLAR CAPILLARY DYSPLASIA WITH ANORECTAL ANOMALY: A RARE CAUSE OF PERSISTENT PULMONARY HYPERTENSION IN A NEWBORN**

- 17 Z. Bukovinska, D. Murgas, M. Ciljak, K. Matasova, A. Jurko jr, M. Zibolen

*12.10-12.18*

**ASTHMA, ALLERGY, MOOD DISORDERS, AND NUTRITION**

- 86 A. Wilczyńska-Kwiatek, K. Bargiel-Matusiewicz, Ł. Łapiński

*12.20-12.28*

**CHLAMYDOPHILA PNEUMONIAE INFECTION IN CYSTIC FIBROSIS ADULTS**

- 64 T. Piorunek, J. Goździk, S. Cofta, M. Wal, A. Kuch, E. Wysocka

**12.30 End of conference with fair well snack**

Sunday 14.06.2009

## Lecture Room 2

### Pediatric diseases and future development I

Chair: A. Dubaniewicz, K. Bargiel-Matusiewicz

09.00-09.08

#### **HYPERGLYCEMIA AS A PROGNOSTIC FACTOR IN CHILDREN WITH ACUTE RESPIRATORY FAILURE**

25 P. Durdik, S. Nosal, J. Buchanec, K. Zelenak, V. Zolak, J. Mikler, P. Banovcin

09.10-09.18

#### **PREDICTION OF ATOPY DISEASES IN THE FIRST YEAR OF LIFE BY USING CORD BLOOD IGE LEVELS AND FAMILY HISTORY**

76 A. J. Sybilski, A. Doboszyńska, B. Samoliński, M. Michalczuk

09.20-09.28

#### **INFLUENCE OF PERINATAL FACTORS ON THE LEVELS OF TOTAL AND SPECIFIC CORD BLOOD IgE**

76 A. J. Sybilski, A. Doboszyńska, B. Samoliński, M. Michalczuk

09.30-09.38

#### **QUALITY OF LIFE AND ACTIVITY OF CHILDREN SUFFERING FROM BRONCHIAL ASTHMA**

9 A. Trzcieńska-Green, K. Bargiel-Matusiewicz, A. Wilczynska-Kwiatek

### Cells, Genes and their Proteins III

Chair: B. Becher, K. Nowak

09.40-10.05

7 **Special Lecture:** R. Bals  
**COPD AS A SYSTEMIC DISEASE**

10.10-10.18

#### **MYCOBACTERIAL HEAT SHOCK PROTEINS AS AN AUTOIMMUNOLOGICAL FACTOR IN THE PATHOGENESIS OF SARCOIDOSIS**

24 A. Dubaniewicz

10.20-10.28

#### **HEAT SHOCK PROTEINS IN COPD PATIENTS TREATED WITH FORMOTEROL AND FORMOTEROL/BUDESONIDE**

38 A. Holownia, R. M. Mroz, E. Chyczewska, J. J. Braszko

10.30-10.38

**CYTOSOLIC AND NUCLEAR EXPRESSION OF FKBP51 IN SPUTUM CELLS DURING COPD THERAPY**

58 R. M. Mroz, A. Holownia, E. Chyczewska, J. J Braszko

10.40-10.48

**EFFECT OF FLAVIN 7 ON ALLERGEN INDUCED HYPERREACTIVITY OF AIRWAYS**

28 S. Franova, M. Joskova, E. Novakova, K. Adamicova, M. Sutovska, S. Nosal

10.50-10.58

**EXPRESSION OF ANTI-APOPTOTIC PROTEIN SURVIVIN AND TUMOR SUPPRESSOR P53 PROTEIN IN PATIENTS WITH PULMONARY CARCINOMA**

35 E. Halašová, M. Adamkov, E. Kavcová, T. Matáková, Ľ. Mušák, D. Výbohová, M. Janíčková, D. Mištuna, A. Šingliar

**11.00 – 11.30 Coffee Break**

**Cells, Genes and their Proteins IV**

Chair: M. Pokorski, A. Gillissen

11.30-11.38

**CIRCULATING INFLAMMATORY CYTOKINES IN ADULT CYSTIC FIBROSIS PATIENTS**

32 J. Gozdzik, P. Tomasz, S. Cofta, A. Nowicka

11.40-11.48

**EXPRESSION OF CD152 (CTLA-4) IN CHILDREN WITH AUTOIMMUNE THYROIDITIS IS NOT DEPENDENT ON A/G 49 POLYMORPHISM OF EXON 1 OF THE CTLA-4 GENE**

50 A. M. Kucharska, E. Gorska, M. Wasik, B. Pyrzak, A. Wisniewska, U. Demkow

11.50-11.58

**SYMPATHETIC HYPERACTIVITY INFLUENCES CHEMOSENSOR FUNCTION IN PATIENTS WITH END-STAGE RENAL DISEASE**

54 C. Meyer

12.00-12.08

**ANGIOTENSIN-CONVERTING ENZYME I/D POLYMORPHISM IN CHRONIC OBSTRUCTIVE PULMONARY DISEASE**

61 S. Pabst, B. Theis, A. Gillissen, M. Lennarz, I. Tuleta, G. Nickenig, D. Skowasch, C. Grohé

*12.10-12.18*

**ADAM33 GENE POLYMORPHISMS IN CHRONIC OBSTRUCTIVE  
PULMONARY DISEASE**

61 S. Pabst, C. Pizarro Touron, A. Gillissen, M. Lennarz, I. Tuleta, G. Nickenig, D. Skowasch, C. Grohé

**12.20 End of conference with fair well snack**

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# Conference Party



## Location

**Spizz**  
Markt 9  
04109 Leipzig  
☎ +49 (0)341 9608043

**Starting time** Saturday, June 13<sup>th</sup> 2009, 20:00 h

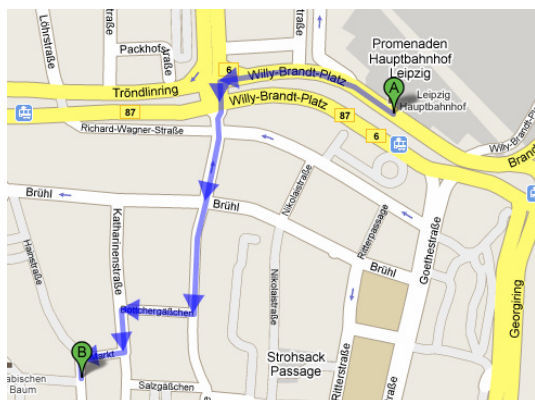
## Entertainment



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## Transfer

Street tram (Line 16) to railway station →



Taxi, we recommend

**Löwentaxi**  
Tel.: 982222

**Leipzig Taxi**  
Tel.: 4884

**Taxi mit der Mütze**  
Tel.: 4233  
Tel.: for free 0800 8004233

## Collaboration

Scientific program is supported by



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A woman is parasailing with three colorful parachutes (yellow, blue, and red) against a clear blue sky. In the bottom right corner, there is a yellow and blue logo for **Formotop**®. Below the name, it reads "Formoterol im Novolizer®" and "12 µg / 6 µg". To the right of the text is a small image of the white Formotop inhaler device.



A woman with blonde hair and blue eyes is looking directly at the camera. She is wearing a white jacket and has her hands clasped in front of her, with red petals falling around them. In the top right corner, there is a dark blue logo for **NYCOMED**. In the bottom right corner, there is a red logo for **Alvesco**® with the text "ciclesonid" below it.

## Formoterol- Therapie mit Format

*Genau was ich brauche!*

- **Einfach**  
60x inhalieren ohne Nachfüllen
- **Sicher**  
Dreifache Inhalationskontrolle
- **Jetzt verordnen**  
Günstige Einstiegspackung

...auch im AOK-Rabattvertrag



Formatris® 6  
60x  
Mikrogramm  
Novolizer®

Formatris® 12  
12x  
Mikrogramm  
Novolizer®

Formatris® 6/12 Mikrogramm Novolizer® Wirkstoff: Formoterol, Zusammensetzung: Arzneilich wirksamer Bestandteil: 1 Einzeldosis mit 5,75 mg / 11,50 mg Pulver enthält 4 µg / 12 µg Formoterolboranhydrat (entspricht einer aus dem Mundstück abgegebene Dosis von 4,18 µg / 12,36 µg Formoterol), sonstiger Bestandteil: Laktose Monohydrat, enthält geringe Menge Milchprotein, Anwendungsgebiete: Dauerbehandlung zur Erleichterung bronchialobstruktiver Symptome und zur Vorbeugung von Belastungsasthma bei Asthmatikern, bei denen eine adäquate Behandlung mit Corticosteroiden allein nicht ausreicht ist, Erleichterung von bronchialobstruktiven Symptomen bei Patienten mit chronisch obstruktiver Atemwegkrankung (COPD), Gegebenenfalls: Überempfindlichkeit (Allergie) gegenüber Formoterol oder inhalierter Laktose, Warnhinweis: Vorsicht ist geboten bei Patienten mit Thyreotoxikose, Phäochromozytom, hypertropher obstruktiver Kardiomyopathie, idiopathischer subakuteller Aortenstenose, schwerer Hypertonie, Anoxymas oder anderen schweren kardiovaskulären Störungen wie ischämischer Herzkrankung, Tachyarrhythmie oder schwerer Herzinsuffizienz sowie bei Patienten mit verlängertem QTc-Intervall ( $> 0,44$  Sek.), Kinder unter 6 Jahren, Schwangerschaft: während der Schwangerschaft, insbesondere im 1. Trimenon und kurz vor der Geburt nur nach eingehender Nutzen-Risiko-Abwägung anwenden, Stillzeit: darf während der Stillzeit nicht verabreicht werden, Nebenwirkungen: Häufig: Kopfschmerzen, Tremor, Palpitationen, gelegentlich: Agitiertheit, Rastlosigkeit, Schlafstörungen, Tachykardie, Arrhythmie, Muskelschwäche, Schläfen: Vorhofflimmern, supraventrikuläre Tachykardie, Extrasystolen, Hypokaliämie, Hyperkaliämie, paradoxe Bronchospasmus, Exanthema, Übelkeit, Pruritus, Sehr selten (inkl. Einzelfälle): Geschmacksstörungen, Benommenheit, Angina Pectoris, Verlängerung QTc-Intervall, Veränderung des Blutdrucks, Hyperglykämie, Erhöhung der Blutspiegel von Insulin, freien Fettsäuren, Glycerin und Ketonkörpern, Übelkeit, Überempfindlichkeitsreaktionen, angioneurotisches Ödem, Bei Kindern unter 12 Jahren: Einzelne Berichte über Übererregbarkeit, hyperaktive Verhaltensausfalligkeiten oder Halluzinationen, Weitere Einzelheiten und Hinweise: s. Fach- und Gebrauchsinformation, Verschreibungspflichtig Stand Juli 2008, MEDA Pharma GmbH & Co. KG, 41352 Bad Honberg, [www.medapharma.de](http://www.medapharma.de)

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