

# Bronchitis X

*'Prevention and Resolution of Lung Disease'*

**19 – 21 June 2019**

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Since the sixties, small interactive meetings featuring leading international researchers in the field of obstructive airway diseases have been held in Groningen under the unassuming title of "Bronchitis". In 2019, we will be celebrating its 10th anniversary by organizing "Bronchitis X".

Bronchitis X with the theme: "Prevention and Resolution of Lung Disease", promises to be as exciting and cutting edge as in previous years. Sessions will focus on structural, immunological, epidemiological, environmental, and (epi)genetic aspects of obstructive lung diseases. There will also be a crossing border session to understand mechanisms underlying lung fibrosis.

These topics will be presented and discussed by renowned researchers in these areas, and there will be an emphasis on discussion and interaction between all participants. In the past, this format has led to stimulating and inspiring discussions, often generating new insights and hypotheses. During the social program, participants will have the opportunity to interact with each other in surroundings conducive to thought and enjoyment. Young researchers will have an opportunity to present new data and interact with experts in the field. We are confident that this meeting will be both fruitful and enjoyable, and we sincerely look forward to seeing you in Groningen.

Abstracts can be submitted from November 1st. For more information about this symposium please go to <http://www.bronchitisx.nl/>.

Maarten van den Berge, dept. Pulmonary diseases  
Reinoud Gosens, dept. Molecular Pharmacology  
Machteld Hylkema, dept. Pathology and Medical Biology (chair)  
Hanneke Oude Elberink, dept. Allergology  
Aline Sprickelman, dept. Pediatric pulmonary diseases

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## Program

### Wednesday 19 June 2019

08.30 – 09.20      Registration and coffee  
09.20 – 09.30      Opening  
                         *M. Joëls (NL)*

### Prevention/Lifestyle/Epidemiology

**Moderators: G.H. Koppelman (NL)/H.M. Boezen (NL)**

09.30 – 09.50      Tobacco control: the power of law and policy?  
                         *B.C.A. Toebes (NL)*  
09.50 – 10.00      Discussion  
  
10.00 – 10.20      Gene by environment interaction in asthma  
                         *F. Martinez (USA)*  
10.20 – 10.30      Discussion  
  
10.30 – 10.50      Genetics of smoking: Impact on smoking behaviours, health consequences and  
                         cessation  
                         *R. Tyndale (CAN)*  
10.50 – 11.00      Discussion

11.00 – 11.45	Coffee break
<b>Moderator: W. Timens (NL)/ J.W. Holloway (UK)</b>	
11.45 – 12.05	Microbiome relevance in asthma and COPD <i>S. Bartel (NL)</i>
12.05 – 12.15	Discussion
12.15 – 12.30	<i>Short communication</i>
12.30 – 12.45	<i>Short communication</i>
12.45 – 13.05	Inhalation technique, how and why? <i>J.W. Kocks (NL)</i>
13.05 – 13.15	Discussion
13.15 – 14.15	Lunch

## **Systems Biology**

**Moderator: M.N. Hylkema (NL)/H.B. Schiller (DE)**

14.15 – 14.35	Single cell sequencing as a new approach to unravel the biology of asthma and asthma remission <i>M.C. Nawijn (NL)</i>
14.35 – 14.45	Discussion
14.45 – 15.05	Epigenetic mechanisms regulating the expression of inflammatory and remodeling genes in the lung <i>A. Faiz (Aus)</i>
15.05 – 15.15	Discussion
15.15 – 15.45	POSTERS – Moderator <i>to be announced</i>
15.45 – 16.15	Tea break
16.15 – 16.35	Epigenetic impact of air pollutants and environmental exposures on asthma and COPD <i>E. Melén (S)</i>
16.35 – 16.45	Discussion
16.45 - 17.00	<i>Short communication</i>
17.00 – 17.15	<i>Short communication</i>
17.15 - 17.35	A systems biology approach to lung disease <i>I. A. Adcock (UK)</i>
17.35 – 17.45	Discussion
17.45 – 17.50	Closure
18.30	Reception <i>This reception is offered to you by the University of Groningen, the Municipality of Groningen and the Province of Groningen</i> Buffet

**Thursday 20 June 2019**

08.00 – 08.30      Registration and coffee

## **Stem cells and lung regeneration**

**Moderator: I.H. Heijink (NL)/ E.L. Rawlins (UK)**

08.30 – 08.50      Stem/Progenitor cell dysfunction in COPD  
                         *M. Ghosh (USA)*

08.50 – 09.00      Discussion

09.00 – 09.15      *Short communication*

09.15 – 09.30      *Short communication*

09.30 – 09.50      Cell-based therapy: rebuilding the lung  
                         *D.E. Wagner (S)*

09.50 – 10.00      Discussion

10.00 – 10.30      Coffee break

**Moderators: R. Gosens (NL)/A. Van der Does (NL)**

10.30 – 10.50      Lung organoids to study cell-cell interaction  
                         *E.L. Rawlins (UK)*

10.50 – 11.00      Discussion

11.00 – 11.20      Regenerative pharmacology  
                         *R. Gosens (NL)*

11.20 – 11.30      Discussion

11.30 – 11.45      *Short communication*

11.45 – 12.00      *Short communication*

12.00 – 12.20      Immune/Epithelial cross-talk in lung disease

12.20 – 12.30      Discussion

12.30 – 13.30      Lunch

13.30 – 17.30      Social Program .....

## Friday 21 June 2019

08.00 – 08.30      Registration and coffee

### Overarching mechanisms/crossing borders

**Moderator: G.G. Brusselle (BE)/B.N. Melgert (NL)**

08.30 – 08.50      Understanding mechanisms underlying fibrosis - overlap between COPD and lung fibrosis?

*M. Kolb (CAN)*

08.50 – 09.00      Discussion

09.00 – 09.20      ECM changes and lung fibrosis

*J.K. Burgess (NL)*

09.20 – 09.30      Discussion

09.30 – 09.50      Early detection of chronic lung disease and exacerbations: biomarkers, imaging and beyond

*G. Jenkins (UK)*

09.50 – 10.00      Discussion

10.00 – 10.30      Coffee break

**Moderator: C.A. Brandsma (NL)/J.K. Burgess (NL)**

10.30 – 11.50      Accelerated aging as a common driving force of lung fibrosis and COPD/Emphysema?

*S. Meiners (DE)*

10.50 – 11.00      Discussion

11.00 – 11.20      Endotypes of asthma COPD towards personalized medicine

*S. Christenson (USA)*

11.20 – 11.50      Discussion

11.50 – 12.30      POSTERS – moderator *to be announced*

12.30 – 13.30      Lunch

## **Innovative therapies**

### **Moderators: P. Wijkstra (NL)/A. Faiz (Aus)**

- 13.30 – 13.50      Bronchoscopic interventions for COPD  
                         *D.J. Slebos (NL)*
- 13.50 – 14.00      Discussion
- 14.00 – 14.20      Home mechanical ventilation in COPD  
                         *M. Duiverman (NL)*
- 14.20 – 14.30      Discussion
- 14.30 – 14.50      Epithelial mechanisms of asthma and COPD susceptibility  
                         *A. van der Does (NL)*
- 14.50 – 15.00      Discussion
- 15.00 – 15.30      Tea break

### **Moderators: H.A.M. Kerstjens (NL)/G. Jenkins (UK)**

- 15.30 – 15.50      Prevention of COPD exacerbations  
                         *J. Wedzicha (UK)*
- 15.50 – 16.00      Discussion
- 16.00 – 16.20      Biologicals in Asthma and COPD  
                         *G. Brusselle (BE)*
- 16.20 – 16.30      Discussion
- 16.30 – 17.00      Closure

### **Organization committee**

Dr. M.(Maarten) van den Berge, dept. Pulmonary diseases, University Medical Center Groningen (NL)  
Prof.dr. R. (Reinoud) Gosens, dept. Molecular Pharmacology, University Medical Center Groningen (NL)  
Dr. M.N. (Machteld) Hylkema, dept. Pathology and Medical Biology, University Medical Center Groningen (NL)  
Dr. J.N.G. (Hanneke) Oude Elberink, dept. Allergology, University Medical Center Groningen (NL)  
Dr. A.B. (Aline) Sprikkelman, dept. Pediatric Pulmonology and Pediatric Allergology, University Medical Center Groningen (NL)

### **Faculty**

Prof.dr. I.M. **Adcock**, Cell & Molecular Biology, Airways Disease Section, National Heart and Lung Institute/Imperial College London (UK)  
Dr. S. **Bartel**, Pathology, University Medical Center Groningen (NL)  
Prof.Dr. H.M. **Boezen**, Epidemiology, University Medical Center Groningen (NL)  
Dr. C.A. **Brandsma**, Pathology, University Medical Center Groningen (NL)  
Prof.Dr. G.G. **Brusselle**, Head of Clinic, Department of Respiratory Medicine, Ghent University Hospital (BE)  
Prof.Dr. J.K. **Burgess**, Department of Pathology and Medical Biology, University Medical Center Groningen (NL)  
Dr. S.A. **Christenson** Division of Pulmonary and Critical Care, University of California, (USA)  
Prof.Dr. G. **Jenkins**, Professor of Experimental Medicine and Honorary Consultant Physician, University of Nottingham (UK)  
Dr. A. **van der Does**, Leiden University Medical Center (NL)

Dr. M.L. **Duiverman**, Pulmonary Diseases, University Medical Center Groningen (NL)  
 Dr. A. **Faiz**, Pulmonary Diseases, University Medical Center Groningen (NL)  
 Dr. G. **Ghosh**, National Jewish Health (USA)  
 Prof.Dr. H.I. **Heijink**, Pathology & Medical Biology, University Medical Center Groningen (NL)  
 Prof.Dr. J. **Holloway**, Professor of Allergy and Respiratory Genetics, University of Southampton (UK)  
 Prof.Dr. M. **Joëls**, Board of Directors, dean University Medical Center Groningen (NL)  
 Prof.Dr. H.A.M. **Kerstjens**, Pulmonary Diseases, University Medical Center Groningen (NL)  
 Dr. J.W.H. **Kocks**, General Practice, University Medical Center Groningen (NL)  
 M. **Kolb**, Director, Division of Respiriology, Firestone Institute for Respiratory Health St.Joseph's Healthcare (CAN)  
 Prof.Dr. G.H. **Koppelman**, Pediatric Pulmonary Diseases, University Medical Center Groningen (NL)  
 Prof.Dr. F. **Martinez**, Director- Asthma & Airway Disease Research Center, University of Arizona (USA)  
 Prof.Dr. S. **Meiners**, Group leader "Proteasome Function in Lung Disease" Comprehensive Pneumology Center, Helmholtz Zentrum Munchen (DE)  
 Prof.Dr. E. **Melén**, Institute of Environmental Medicine Karolinska institutet (S)  
 Prof.Dr. B.N. **Melgert**, University of Groningen (NL)  
 Ir.Dr. M.C. **Nawijn**, Pathology & Medical Biology, University Medical Center Groningen (NL)  
 Dr. E.L. **Rawlins**, Pathology, University of Cambridge (UK)  
 Dr. H.B. **Schiller**, Comprehensive Pneumology Center, Helmholtz Zentrum München (DE)  
 Dr. D.J. **Slebos**, Pulmonary Diseases, University Medical Center Groningen (NL)  
 Prof.Dr. W. **Timens**, Pathology, University Medical Center Groningen (NL)  
 Prof.mr.dr. B.C.A. **Toebes**, Department of Transboundary Legal Studies, Faculty of Law, University of Groningen  
 Prof.Dr. F. **Tyndale**, Head, Pharmacogenomics, Centre for Addiction and Mental Health, University of Toronto (CAN)  
 Dr. D.E. **Wagner**, Faculty of Medicine, Lund University (S)  
 J.A. **Wedzicha**, Faculty of Medicine, National Heart & Lung Institute, London (UK)  
 Prof.dr. P.J. **Wijkstra**, Pulmonary Diseases, University Medical Center Groningen (NL)

## **Organization**

The Groningen Research Institute for Asthma and COPD ([www.griac.nl](http://www.griac.nl)) in cooperation with the Wenckebach Institute, UMCG Postgraduate School of Medicine.

## **Target audience**

Pulmonologists, allergologists, paediatricians, pathologists, epidemiologists, general practitioners, lung researchers and specialist residents.

## **Location**

The congress will be held at the University Medical Center Groningen, Hanzeplein 1, Groningen, The Netherlands.

## **Language**

The official language during the congress is English. No simultaneous translation will be provided.

## **Accreditation and Certificate**

Participants will receive a certificate of attendance.

The programme is accredited for Dutch participants by the ABAN.

## **Costs and Registration**

If you register before 1 May 2019, the registration costs for the symposium are €375,- per person (€ 425,- after 1 May 1 2019). For students/residents €100,- (and €150,- after 1 May 2019). The costs for one day are €200,-. This price includes coffee, tea, lunches, dinner, abstract book and the social event.

You can register for the symposium at <http://www.bronchitisx.nl/>. Cancellation of your registration is possible until 21 May 2019; your registration fee will be fully refunded minus €25,- handling fee. After 21 May 2019 the registration fee will not be refunded.

Students must send a copy of their student ticket to the Wenckebach Institute.

## **Abstracts**

Participants who wish to present a paper are invited to submit an abstract in English by using the form at

<http://www.bronchitisx.nl/>.

The deadline for submission is 1 March 2019. A notification of acceptance will be given to all authors in April 2019.

#### **Travel Information**

The city has a direct railway connection with Amsterdam Schiphol Airport, the travel time is about 2.5 hours. For a personal itinerary please check [www.ns.nl](http://www.ns.nl). The local busses depart from the railway station to the University Medical Center Groningen. See for the time schedule [www.9292.nl](http://www.9292.nl). The bus stop is situated at the main entrance of the Hospital.

When approaching the city of Groningen by car, please follow the signs which indicate UMCG.

Parking facilities are available in the garage P-Noord (paid parking), entrance at Vrydemalaan.

#### **Hotel Accommodation**

For hotel accommodation please check our website <http://www.bronchitisx.nl/>.

#### **Requests for further information**

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