

### ICAN Meeting 2023

**Friday, 8 September 2023**

**Check-in at the hotel after 3:00 PM**

#### NH Milano Congress Center

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### **Saturday, 9 September 2023**

*Agenda in Central European Summer Time*

07:00 - 08:30 AM	<b>Breakfast, Check-in, Set up</b>
08:30 AM	<ul style="list-style-type: none"> <li>● <b>Welcome</b>, Tonya Winders</li> <li>● <b>ICAN 2023 Overview</b>, Nizar Jarjour</li> <li>● <b>ICAN 2022</b>, Ben Gaston</li> <li>● <b>International Collaboration</b>, Ratko Djukanovic</li> <li>● <b>Early Career Viewpoint</b>, Melissa Rosenkranz</li> <li>● <b>Patient Advocacy</b>, Samantha Walker</li> <li>● <b>Flow of the day</b>, Tonya Winders</li> </ul>
09:00 AM	<p><b>Visit Posters:</b> Authors stand by posters and answer questions from individuals. Individuals will walk around viewing the approx. First 40 minutes stand by posters, 20 minutes for all to walk around and see all the posters.</p>
<p><b>Blue (Morning) Group Categories</b> Complex Data, Novel Therapeutics, Breath Analysis, and Microbiome</p>	
<p><b>Complex Data (6 posters)</b> Discussion Leaders= Tachinardi and Mendonca</p> <ol style="list-style-type: none"> <li>1. <b>Arthur Hamie Owora</b> Real-world Evidence: Effects Of Inhaled Corticosteroids On Asthma Control And Lung Function Among Children With Severe Asthma.</li> </ol>	

2. **Bikash Keshari** Prevalence and risk factors of asthma in children of K.V. Kuppam block of Vellore district, Tamil Nadu: A community-based cross-sectional study.
3. **Sonia Garcia Gonzalez Moral** Using horizon-scanning methodologies to support the implementation of digital and other innovative technologies that address management of Asthma.
4. **Paulo Henrique Oliveira-Lima** Prevalence of asthma symptoms and allergic rhinitis in adolescents and their parents in Uruguaiana, Brazil: Global Asma Network (GAN).
5. **Rocio Teresa Martinez-Nunez** Using horizon-scanning methodologies to support the implementation of digital and other innovative technologies that address management of Asthma.
6. **Timothy Stopford Christopher Hinks** Single-cell sequencing of bronchoscopy samples in interventional studies in severe and difficult asthma.

### Novel Therapeutics (6 posters)

Discussion Leaders = Phipatanakul and Winders

1. **Amlan Chakraborty** Non-invasive lung imaging and pulmonary drug delivery vehicles using glycine modified nanoparcles.
2. **Famuyi Yang** S-nitrosoglutathione (GSNO) is A Bronchodilator in Human Asthma: Report from the First Pilot Study in Asthma.
3. **Ivana Alisandrea Daniels** The Effects of DHEA on Airway pH in Asthmatic Bronchial Epithelial Cells.
4. **Lauren Taylor** Qualitative exploration of patient perceptions about asthma inhalers in relation to new treatment guidelines.
5. **Michael Denning Davis** A Treatment to Eliminate Respiratory Viral Infections Associated with Asthma Exacerbations.
6. **Sara Gerday** Longitudinal effects of biologic therapies on proteomic and transcriptomic signatures in severe.

### Breath Analysis and Microbiome (6 posters)

Discussion Leaders = Gaston and Walker

1. **Fransiskus Xaverius Ivan** Integrative microbiome-resistome of U-BIOPRED metagenomes identifies multidrug-resistant H. influenzae-dominated phenotype in Severe Asthma.
2. **Katie L Bonner** Moraxella catarrhalis is associated with neutrophilic airway inflammation and alters airway epithelial immune responses in severe recurrent preschool wheeze.
3. **Laura J Walsh** The Lung Microbiome in Severe Asthma
4. **Leilani Jones** Airway Epithelial Cell Volatile Organic Compound Responses to Caldecott Tunnel PM2.5.
5. **Piers Dixey** eNOSE breath prints differentiate blood eosinophilic status in severe asthma treated with anti-IL5 and anti-IL5 receptor antagonists
6. **Shahd Abuhehlal** Development of Soft-Ionisation-Ion-Mobility Mass-Spectrometry method for Real-Time breath analysis

10:00 AM

**Small Group collaboration planning**, Blue Group, small group sitting at a table by category with Group Leaders. Yellow group presenters may join any of the small groups based on interest.

10:45 AM

**General Discussions, Whole Group**, Blue Group, Committee member leading Group

**Whole Group Facilitator: Djukanovic and Walker**

12:00 PM

## LUNCH

01:00 PM

**Visit Posters** (Yellow Group afternoon group) Authors stand by posters and answer questions from individuals. Individuals will walk around viewing the approx. First 40 minutes stand by posters, 20 minutes for All to walk around and see all posters

### Yellow (Afternoon) Group Categories

Novel Diagnostics and Mechanisms, System Effects and Circadian Rhythm

#### Novel Diagnostics and Mechanisms (8 posters)

Discussion Leaders = Chung and Akuthota

- **Elizabeth Scotney** Characterisation of eosinophil and neutrophil subtypes in children with severe asthma.
- **Justin D Salciccioli** Exploring the Relationship between FABP4 and Sputum Microbiome in Asthma: A Novel Insight into Asthma Pathogenesis.
- **Ksenija Bernau** Pro-inflammatory fibroblasts mediate granulocyte cross-talk in asthma
- **Manali Mukherjee** Charcot-Leyden crystals are associated with airway autoimmune responses in severe asthma with eosinophilia.
- **Nazanin Zounemat-Kermani** Asthma in the Landscape of pleiotropy map of human cell biology defined by Network Expansion of genetic associations and protein-protein interactions and multi-omics analysis in U-BIOPRED.
- **Rana Abadalkareem** Study to investigate the influence of the Maternal Environment in Pregnancy (MEP).
- **Regis Joulia** Investigation into the lung vasculature transcriptional signature during asthma using spatial transcriptomic.
- **Songmin Ying** Cytokine-anchored chimeric antigen receptor T cells for treatment of eosinophilic asthma.

#### Systemic Effects (4 posters)

Discussion Leaders = Peters and Durrington

- **Destiny R Gomez** Air pollution poses a significant threat to respiratory health worldwide, with increasing evidence linking fine particulate matter to asthma development.
- **Elizabeth Townsend** Fatty liver disease is associated with decreased lung function in asthmatics and correlates with circulating levels of IL-6.
- **Matthew C Tattersall** The Association of Coronary Artery Calcification in Severe Asthma: The Severe Asthma Research Program (SARP)
- **Melissa A. Rosenkranz** Neural mechanisms of asthma-related improvements following Mindfulness-Based Stress Reduction Training

#### Circadian Rhythm (6 posters)

Discussion Leaders = Kraft and Fowler

- **Amlan Chakraborty** Does the clock affect integrity of the airway epithelial barrier in asthma?
- **Ran Wang** Impact of inhaled corticosteroid dosing time - an open-label, randomised 3-way crossover trial.
- **Ran Wang** The impact of time-of-day on the diagnostic performance of tests for asthma.
- **Robert Maidstone** Sex modifies the increased risk of asthma in shift workers, with women having a greater risk than men.
- **Santhosh Duraisamy** Sex-based difference and circadian time-of-day response in *Alternaria alternata*-induced allergic asthma in mice.

- **Santhosh Duraisamy** Transcriptomic profiling in chronic house dust mite (HDM) -induced allergic asthma in circadian clock gene Rev-erba knockout mice.

02:00 PM	<b>Small Group collaboration planning</b> , Yellow Group small group sitting at table by category. Blue group presenters may join any of the small groups based on interest.
02:45 PM	<b>General Discussions, Whole Group</b> , Yellow Group Committee member leading Group  <b>Whole Group Facilitator: Jarjour and Winders</b>
04:00 PM	<b>Conclusion, with remarks from ICAN Organizers</b>
04:30 - 06:00 PM	<b>Reception with Continued Discussions</b>

**Statement of Inclusivity:** ICAN is committed to providing a safe, collegial environment that is inclusive and free from any form of discrimination. Participants are expected to be collaborative, considerate of other participants, and respectful of their viewpoints.

## About GAAPP

GAAPP is an umbrella organization that supports, empowers, and advocates for **patients with airways, allergic and atopic conditions**. Based in Vienna, Austria, GAAPP's **Board is representative of all regions of the world** with large and small groups, all with a common purpose: **empowering the patient and supporting the patient voice** so that decision-makers in both the public and private sectors in government and industry will be mindful of patient needs, patient desires, and patient rights.

Since 2009, we have grown into a vibrant worldwide organization with **more than 100 constituent members** from every continent sharing information, best practices, concerns, and hopes.

**Learn more about our mission and vision: <https://gaapp.org/about/>**



# ICAN Committee Members



Dr. Praveen Akuthota is a Professor of Medicine in the Division of Pulmonary and Critical Care Medicine at the University of California San Diego, where he leads the Asthma and Eosinophilic Diseases Clinic. Dr. Akuthota's research efforts range from basic scientific investigations of human eosinophil biology and eosinophilic inflammation to clinical and translational efforts in asthma and eosinophilic pulmonary disease.



Dr Fan Chung is a Professor of Respiratory Medicine at the National Heart & Lung Institute, Imperial College London, a Senior Investigator of the UK National Institute for Health Research, and a Fellow of the Academia Europaea. He leads UK Research Innovation-funded research programs on Precision Medicine in severe asthma and AI for personalized respiratory health and pollution.



Ratko Djukanovic is a Professor of Medicine at the University of Southampton and a Consultant Respiratory Physician at the Southampton University Hospital, with a particular interest in the mechanisms and treatment of severe asthma. He is a co-founder of international collaborations on severe asthma U-BIOPRED and SHARP.



Dr. Hannah Durrington is an MRC Clinician Scientist at the University of Manchester and an Honorary Consultant Physician at Wythenshawe Hospital, MFT, with a specialist interest in asthma. Her research interests are in the circadian biology of asthma. Her research group is interested in understanding why asthma is a rhythmic inflammatory disease. Her research is fully translational and involves clinical as well as in vivo and ex vivo models of disease. Her research focuses on how the pathogenesis of asthma changes by time of day and the implications of daily variations in disease for the treatment and diagnosis of asthma.



Stephen Fowler is a professor of respiratory medicine at the University of Manchester and an honorary consultant physician at Manchester University NHS Foundation Trust. His clinical and research interests lie in diagnosing, classifying, and managing airway diseases, principally asthma, and associated conditions such as inducible laryngeal obstruction and breathing pattern disorders. He is investigating novel non-invasive biomarkers for phenotyping inflammatory and infectious lung disease through the detection and analysis of volatile molecules in exhaled breath.



Dr. Ben Gaston is a Professor of Pediatrics at the Wells Center for Pediatric Research and Riley Hospital for Children, Indiana University School of Medicine. He has been funded by the NIH for nearly 30 years and is currently PI on several grants, including both a Program Project Grant and the Indiana Medical Scientist Training program.



Dr. Nizar Jarjour is a Professor of Medicine and Radiology and holds the Ovid Meyer Professor in Medicine at the University of Wisconsin, Madison. He is Head of the Division of Allergy, Pulmonary & Critical Care Medicine in the Department of Medicine. Dr. Jarjour has served as a Principal Investigator for several multicenter NIH-funded collaborative grants, including a recent grant focused on mechanisms of severe asthma and another grant examining precision therapies in severe asthma. He has also led research studies on the mechanism of allergic inflammation-driven airway remodeling and interdisciplinary studies on the systemic effects of airway inflammation, especially the cardiovascular and brain changes related to airway inflammation.



Dr. Eneida A. Mendonça, MD, PhD, is a Professor of Pediatrics and Biomedical Informatics at the University of Cincinnati. She also holds the positions of Rieveschl Chair of Biomedical Informatics and Director of the Division of Biomedical Informatics at Cincinnati Children's Medical Hospital. Her focus lies in leveraging health information technology and informatics methodologies to enhance clinical practice, advance population-level health prevention, and drive translational research. Recent efforts have centered on comprehending the mechanisms of severe asthma and examining the impact of environmental, social, and circadian rhythm aspects on asthma.



Professor Salman Siddiqui is a Clinical Professor of Respiratory and Experimental Medicine at Imperial College. Professor Siddiqui is also an honorary NHS consultant at Imperial Healthcare Trust, with specialist expertise in severe asthma and eosinophilic lung disease (in particular EGPA).



Dr. Samantha Walker is the Director of Research & Innovation at Asthma + Lung UK, a patient charity and research funder based in London, UK. Samantha used her experiences of merging two multi-million pound research portfolios, establishing the groundbreaking Asthma UK Centre for Applied Research, supporting a successful 20yr collaboration with Imperial College



and King's College London, and awarding over £20m in grant funding over the last 10 years to inform [AAsthma+ Lung UK's new strategy](#) (2022-27).



Tonya Winders, MBA, is the President and CEO of the Global Allergy & Airways Patient Platform, an umbrella organization representing more than one hundred patient organizations in respiratory and immunology. She has over twenty-five years of experience advocating for the one billion people with chronic disease.



Joe Zein is a pulmonary, critical care, and sleep medicine physician with expertise in clinical informatics and asthma epidemiology who has recently moved from the Cleveland Clinic to the Mayo Clinic. As part of the Severe Asthma Research Program, Dr. Zein described that asthma tends to be more severe in older adults and middle-aged women and emphasized the role of sex hormones in asthma with potential therapeutic implications.

## Invited Guests



William W Busse, MD, Professor Emeritus, University of Wisconsin School of Medicine and Public Health. Dr. Busse has a longstanding research interest in asthma, with studies on mechanisms of eosinophilic inflammation, rhinovirus-provoked asthma exacerbations, and the influence of airway inflammation on brain health. His collaborative research has been funded by the NIH and has included the Severe Asthma Research Program (SARP) and, most recently, the landmark Inner-City Asthma Consortium (ICAC). The program is designed to evaluate treatment to control asthma in high-risk urban children and adolescents and establish the mechanisms underscoring uncontrolled disease in this population.



Monica Kraft MD Professor of Medicine, Pulmonary, Critical Care and Sleep Medicine, Murray M. Rosenberg Professor of Medicine and System Chair for the Department of Medicine at Icahn School of Medicine at Mount Sinai and the Mount Sinai Health System.



Michael Peters is an Associate Professor of Medicine at the University of California, San Francisco, and a Senior Director at Gilead Sciences in Inflammation. He leads the global clinical development of programs in metabolism and pulmonary diseases.



Wanda Phipatanakul, MD, MS, director of the Division of Immunology Research Center at Boston Children's Hospital, and S. Jean Emans, Professor of Pediatrics at Harvard Medical School, has dedicated her career to reducing and preventing asthma and allergic diseases. Dr. Phipatanakul has built a deep network of community relationships, and she conducts both school- and home-based asthma studies in children focused on reducing disparities.



Dr. Tachinardi is an accomplished professor of biomedical informatics who is currently leading groundbreaking projects aimed at integrating clinical, social, environmental, and biological data to enhance healthcare and biomedical sciences. He is serving as the interim chair of the Department of Biomedical Informatics at the College of Medicine - University of Cincinnati, where he is also an associate dean holding the position of Senior VP - Chief Health Digital Officer, a role that he shares with UC Health.

*Organized and funded by*



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