

Felix Ratjen, MD, PhD, FRCPC

- Research Institute, Physiology and Respiratory Medicine, Senior Scientist
- The Hospital for Sick Children, Respiratory Medicine, Division Chief
- University of Toronto, Paediatrics, Professor
- The Hospital for Sick Children, H.E. Seller's Chair in Cystic Fibrosis
- Cystic Fibrosis Centre, Co-Director

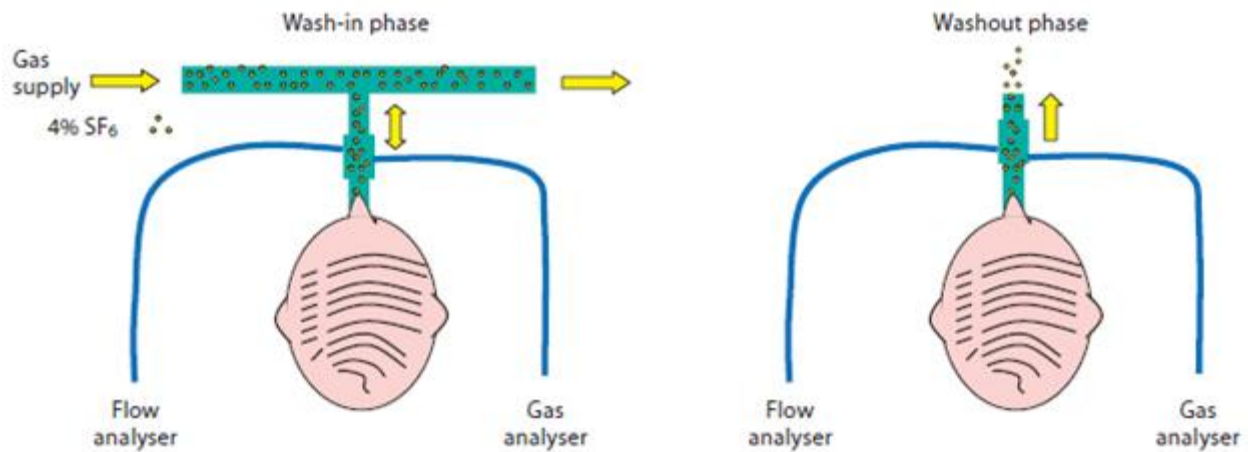


The major focus of my research is to find better treatments for patients with Cystic fibrosis (CF). In this context, I am performing clinical trials to define which treatments work. In parallel to these clinical trials, I am working on new ways to measure treatment response, as this is one of the major problems nowadays in treating CF patients.

Some of the treatments that we are studying are modulators of CFTR function, early intervention strategies to prevent lung disease in infants and young children (such as hydrators of the airway surface liquid), and eradication therapies of pseudomonas and other relevant pathogens.

One of the outcome measures that we are working on is multiple breath washout, which is a more sensitive technique for detecting lung disease. We are currently validating this technique for infants and young children, and once it is validated, it can be used as a clinical test to monitor lung disease as well as to test interventions.

I completed my first randomized control trial as a medical student at the University of Frankfurt. I then became involved in clinical lung function testing in patients with cystic fibrosis. Both my research experience as well as my opportunity to interact with the CF patients gained my interest in this field of clinical research. Also, seeing the patients with their families at the hospital and their positive attitude despite the challenge of overcoming the devastating disease of cystic fibrosis inspires me to continue my work.



Multiple Breath Washout.

[Click here for a complete list of Dr. Felix Ratjen's publications at NCBI PubMed.](#)

Trainees:

Trainees including **Juliana Salazar**, **Dasiga Sundaralingam**, **Katherine LePage**, and **Anouk Benseler** have and are in the process of validating technology to perform multiple breath washout testing using nitrogen washout as well as adapting the technology for use in infants and young children.

Reshma Amin has assessed a new imaging technique to detect information for the lung of CF patients. This imaging technique is called PET.

[SickKids Hospital > Felix Ratjen Profile](#)

[SickKids Hospital > Research > Researchers in profile > Interview with Felix Ratjen](#)

[University of Toronto > Department of Paediatrics > Dr. Felix Ratjen](#)