



Allergens: Science, Health Effects and Innovations

October 3-5, 2016, Indoor Biotechnologies, Charlottesville, VA

Course Preliminary Program

Monday, October 3rd

08:30 Registration, Silk Mill Salon, Indoor Biotechnologies

08:50 - 09:00 Welcome and Introduction.
Martin D. Chapman, PhD, Indoor Biotechnologies

Health Effects of Indoor Allergens

09:00 - 09:30 Environmental risk factors for asthma in urban children.
Elizabeth Matsui MD, Johns Hopkins University, Baltimore, MD.

09:30 - 10:00 Lessons from allergen exposures in the Schools Inner-City Asthma Study (SICAS).
William J Sheehan MD, Children's Hospital, Boston, MA.

10:00 - 10:30 Panel Discussion on Health Effects: Martin Chapman, Elizabeth Matsui, Will Sheehan, Anna Pomés.

10:30 - 10:50 Coffee Break and Refreshments

Environmental Assessments and Interventions to Improve Indoor Air Quality.

10:50 - 11:10 Practical applications of allergen exposure assessments: From homes and workplaces, to animal facilities and product efficacy testing.
Eva King PhD, Indoor Biotechnologies.

11:10 - 11:40 Effective interventions for management of respiratory diseases and control of health care costs.
Kevin Kennedy CIH, Children's Mercy Hospital, Kansas City, Missouri.

11:40 – 12:10 Validated mobile allergen environmental exposure chambers (EEC) for pharmaceutical research studies and clinical trials. Anne Marie Salatapek PhD, Inflamm Research, Mississauga ON, Canada

12:10 – 12:30 Roundtable Discussion

12:30 - 01:30 **LUNCH**

Purified Allergens: Innovative tools for Allergy Research and Molecular Diagnostics

01:30 – 01:55 What is an allergen? Applications of X-ray crystallography to allergen structure and function.
Anna Pomés PhD, Indoor Biotechnologies

01:55 - 02:20 Manufacturing of Purified Allergens to ISO Standards
Sabina Wuenschmann PhD, Indoor Biotechnologies

02:20 - 02:40 Innovations in Molecular Diagnostics for Allergic Diseases:
Martin D. Chapman, PhD, Indoor Biotechnologies

02:40 – 03:00 Discussion

03:00 - 03:30 Tea Break

Clinical Significance and Impact of Food Allergy

03:30 - 04:00 Clinical Significance and Management of Food Allergies.
Scott Commins MD, University of North Carolina, Chapel Hill, NC

04:00 - 04:30 The Molecular Approach to Food Allergy: Role of Specific Allergen Testing.
Martin D. Chapman, PhD, Indoor Biotechnologies

04:30 – 5:00 Panel Discussion on Food Safety Testing
Scott Commins, Martin Chapman, Sabina Wuenschmann

Tuesday, October 4th - Day in the Lab!

The Discover Laboratory at Indoor Biotechnologies, Inc.

08:30 - 04:00 Practical Allergen Analysis

04:00 - 05:00 Data analysis and interpretation of result

For these hands-on practical sessions, participants will work in groups of 2-3 and will perform the following techniques and procedure

- House dust sample preparation and extraction using DUSTREAM™ collector
- ELISA 2.0 for indoor allergens and food allergens.
- MARIA™ Multiplex allergen arrays, instrumentation and data analysis
- VENTIA™ Rapid Test for mite allergen.
- Air sampling devices and procedures for testing allergen control products.

Lunchtime Guest Lecture

12:30 – 01:15 Factors influencing asthma prevalence in neighborhoods of New York City.
Matt Perzanowski PhD, Columbia University, New York

A box lunch will be provided as well as breaks for coffee, tea and soft drinks during the lab sessions.

We will finish by 5:00pm so that participants can return to their hotels prior to our evening social event.

Tuesday Evening - Celebratory Dinner!

Dinner 6-9 pm (included with registration fee): To allow participants to relax, socialize and enjoy good food and ambiance at one of Charlottesville's cool local restaurants.

Wednesday October 5th - Commercial Opportunities

A Half-Day Session from 9-12 am to be held at Indoor Biotechnologies, Inc.

The aim of this session will be to discuss commercialization of respective allergen technologies, including:

- Facilities and equipment for setting up analytical labs.
- Commercialization of purified allergens, ELISA 2.0 and MARIA technology.
- INDOOR Biotechnologies proprietary technology and trademarks.
- Licensing and business opportunities.

The 'Allergen' course originated some years ago, after we received requests from companies to train their personnel in allergen assays. The session is intended to be interactive so that we can fully explore commercial opportunities and possible collaborative ventures.

For further information and a registration form, contact Kristina Reid Black (kreidblack@inbio.com) or visit www.inbio.com.

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