

BIOGENICS RESEARCH CHAMBER

The Biogenics Research Chamber pollen challenge, chamber providing **year-round research opportunities** with controlled capability of testing of medications for Allergic Rhinoconjunctivitis.

SPECIFICATIONS

Two separate chambers

- Clean-room technology
- Large chamber seats 50 subjects
- Small chamber seats 30 subjects
- Directed air flow-single pass HVAC utilizing a chilled water system
- Pollen is delivered uniformly and consistently
- Validated for Ragweed, Mountain Cedar and Live Oak Pollens



Biogenics Research Chamber is owned and operated by:

Robert L. Jacobs, MD, Board Certified Allergist
Dan A. Ramirez, MD, Board Certified Allergist
Charles P. Andrews, MD, CPI, Board Certified Pulmonologist



WE OFFER

Experienced Investigators & Clinicians with more than 50 combined years of research experience conducting Phase I, II, III and IV clinical trials

- Large research allergic subject database
- Support in protocol development

Biogenics Research Chamber is ideal for your study requirements

- Proof of concept
- Efficacy and safety
- Onset of Action
- Duration of Action
- Dose Ranging
- Cross-Over and Parallel Design
- Complex Ocular

In addition, we also have Phase I facilities available for in-house safety observations between chamber runs.

Located in San Antonio, Texas in the South Texas Medical Center Complex.

Thank you for your interest

I hope to be talking with you soon in more detail concerning the Biogenics Research Chamber.

Cynthia Rather, CCRC
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ARTICLES

Jacobs RL, Ramirez DA, Andrews CP. Validation of the Biogenics Research Chamber for *Juniperus ashei* (Mountain Cedar) pollen. *Ann Allergy Asthma Immunol.* 2011; 107: 133-8.

Jacobs RL, Harper N, He W, Andrews CP, Rather CG, Ramirez DA, and Ahuja SK. Responses to ragweed pollen in a pollen challenge chamber versus seasonal exposure identifies allergic rhinoconjunctivitis endotypes. *J Allergy Clin Immunol.* 2012; 103: 122-28.

ABSTRACTS/PRESENTATIONS

Jacobs RL, Andrews CP, Ramirez DA, Ahuja SK, He W, Harper NL. Symptom comparison of chamber exposure to Short Ragweed pollen to natural exposure to Giant Ragweed pollen. 2011; *Ann Allergy Asthma Immunol (Abstr.)* 107(5):A110 (Supplement). Presented at the American College of Allergy, Asthma and Immunology, 2011.

Jacobs RL, Ramirez DA, Andrews CP. Validation of a model of *Juniperus asheii* (Mountain Cedar) pollen allergy in the Biogenics Research Chamber. *J Allergy Clin Immunol* 2011; (Abstr.) 127(2):AB21 (Supplement). Presented at the American Academy of Allergy, Asthma and Immunology Annual Meeting, 2011.

Ramirez DA, Jacobs RL, Andrews CP. *Juniperus asheii* (Mountain Cedar) pollen utilized as an antigen in the Biogenics Chamber: comparison of natural and controlled exposures. *J Allergy Clin Immunol* 2011; (Abstr.) 127(2):AB19 (Supplement). Presented at the American Academy of Allergy, Asthma and Immunology Annual Meeting, 2011.

Ramirez DA, Jacobs RL, Harper NL, He W, Rather C, Andrews CP, Ahuja SK. High correlation between responses to Mountain Cedar pollen in a pollen challenge chamber vs seasonal exposure. *Ann Allergy Asthma Immunol.* 2012; (Abstr.) 109(5): A28 (Supplement). Presented at the American College of Allergy, Asthma and Immunology Annual Meeting, 2012.

Ramirez DA, Rather CG, Harper NL, Carrillo AR, He W, Andrews CP, Ahuja SK, Jacobs RL. Exposure to *Juniperus asheii* (Mt. Cedar) and Virginia Live Oak pollen in a pollen exposure chamber elicits similar symptomatology when compared to natural season. *J Allergy Clin Immunol.* 2013; (Abstr.) 131(2):AB49 (Supplement). Presented at the American Academy of Allergy, Asthma and Immunology Annual Meeting, 2013.

Jacobs RL, He W, Harper NL, Andrews CP, Rather CG, Ramirez DA, Ahuja SK. Heightened response to *Quercus virginiana* (Virginia Live Oak) during natural season exposure versus pollen challenge chamber exposure: role of co-factors. *J Allergy Clin Immunol.* 2013; (Abstr.) 131(2):AB76 (Supplement). Presented at the Academy of Allergy, Asthma and Immunology Annual Meeting, 2013.

Harper NL, Castiblanco J, Rather CG, Andrews CP, Ramirez DA, Jacobs RL, He W, Ahuja SK. RNA-Seq-Derived whole genome transcriptomic profiling following challenge to Mt. Cedar in a pollen challenge chamber uncover novel insights into allergic rhinoconjunctivitis pathogenesis. *J Allergy Clin Immunol.* 2013; (Abstr.) 131(2):AB40 (Supplement). Presented at the American Academy of Allergy, Asthma and Immunology Annual Meeting, 2013.

He W, Carrillo AR, Harper NL, Jimenez F, Martinez H, Ahuja SS, Rather CG, Ramirez DA, Andrews CP, Jacobs RL, Ahuja SK. Exposure to *Juniperus asheii* (Mt. Cedar) pollen in a pollen challenge chamber elicits changes in white blood cell counts and cytokines in Mountain Cedar positive and negative subjects. *J Allergy Clin Immunol.* 2013; (Abstr.) 131(2):AB45 (Supplement). Presented at the American Academy of Allergy, Asthma and Immunology Annual Meeting, 2013.