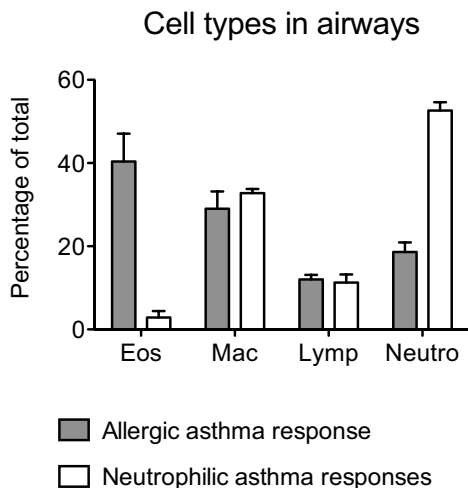


Severe neutrophilic asthma:

Asthma is one of the most common disorders encountered in clinical medicine today. Although classical allergic asthma induced in response to aeroallergens, and characterized by eosinophil infiltrates, is the most commonly referred to form of this disease, a substantial proportion of asthmatics present with an airway inflammation dominated by neutrophil infiltrates. Therapies targeting inflammatory pathways linked to allergic asthma are often not effective against severe neutrophilic asthma, posing a serious concern for clinicians and patients alike. There is a clear need for the development of therapeutics that are effective against this form of the disease.



Experimental readouts:

- Quantification and characterisation of airway infiltrating cell types
- Histology; disease severity score
- Specific antibody production
- Measurement of chemokine and cytokine proteins in tissue
- Quantitative PCR of chemokine and cytokine mRNA levels in tissue
- Lung function

Duration:

11-17 days dependent upon experimental model and readouts

Service Package I is available alone, or in combination with Service Packages II and III

Our scientific project managers can provide expert advice and guidance for all of your efficiency studies.

Please contact us for customized Service Packages
info@preclinbiosystems.com

Service Package I

- Administration of test compounds
- Initiation of asthma model
- Determination of cellular infiltrate into the airways

Service Package II

- Measurement of lung function
- Measurement of specific antibody response

Service Package III

- Histological analysis of lung tissue
- Tissue cytokine and chemokine analysis
- Lymphocyte effector function analysis