

**Title:** Lung Tissue Chamber for the study of Asthma

**Names:** Lung Tissue group

**Date:** 10/19/01-10/26/01

**Problem Statement:** To design a working model to mimic the lung that incorporates living endothelial and epithelial cells in their natural orientations found within the lungs. The system will provide an effective model of the human lung to aid in the research of Asthmatic response to antigens and other lung diseases.

**Restatement of Team Goals:** As a group, to create and agree upon a design to effectively solve our client's problem. To develop the exact specifications of our designs: sizes, volumes, cell surface area, etc.

**Accomplishments:** The design is stilling being developed to final completion. Therefore, the specifications have not been calculated completely.

**Team Goals:** Have a final design accomplished. Have the complete specifications completed as well. Make progress in materials research and ordering.

**Project Schedule:** Met with clients twice. Beginning to formulate design possibilities. This will be the process for the next weeks. Choose or create a new workable design. Have group agree and develop a new final design. Build the product

**Difficulties:** We have not decided on a specific design idea yet. No clear cut design direction has been started.

**Activities:** Tom: .5 hours group work (email, etc).

Megan: 1 gr

Eric: 1.5 hr o-ring research and specifications

Rafael: 1.5 hr o-ring research and specifications

Andrea: 2 hours biomaterial research, .75 hr model building

Barry: 1 hr research

Adam: 1 hr article research

Kevin: 1hr, biomaterial research