

***Pressurized Skin as Mediator &  
Pressurized Systems in Nature***

Inspiration Presentation  
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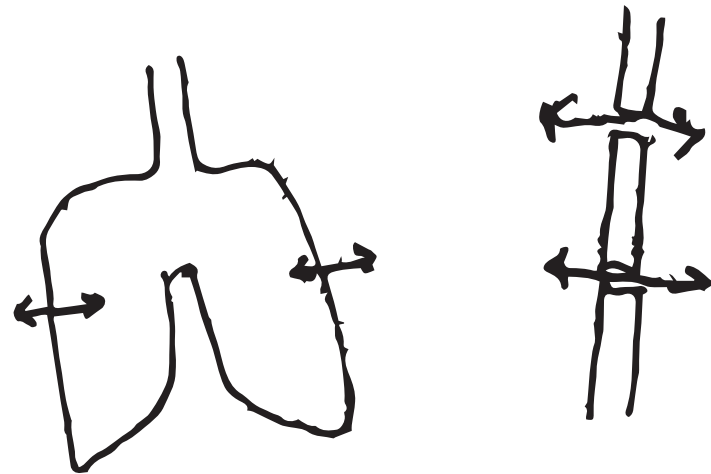
Bioparametrics - Spring '17  
professor: Nancy Cheng

**Skin-**

Blush response (communication), covering (protection), membrane (filtration)

**Lung-**

membrane (filtration/exchange)



**Breathing Skins** - <https://www.breathingskins.com/>

**PneuSystems** - <https://vimeo.com/109476028/>

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Morphology: single 'pneus'

architecture: a single inflatable unit; part of an overall membrane

biology: a flexible layer in an organism enclosing a pressurized filling

Process: pressurized system

using air pressure to create a kinetic envelope with minimal energy input

System: Social, Light, Air

individual pneumas are arranged as part of a pressurized system that passively ventilates space, provides privacy screening and shading.

