COHERENT BREATHING, VI, ISSUE 7:

Breathing Is A Circulatory Function During Which Gas Exchange Occurs.

If we recognize that "breathing" is not simply a "gas exchange" function, but is instead "a fundamental circulatory function during which gas exchange occurs" it changes everything!

 CO_2 $\bot O_2$ Blood flows in a circle, hence it's name: "circulation". However, it is diaphragm motion and resultant pressure Blood = 5Land flow variations in the chest that result in effective Lungs circular flow. My definition of "effective circular flow" is when the volume of blood passing through the right heart upon Right Left inhalation is equal to the volume of blood that passed

Heart

Extra-

Cellular

Fluid ~9L

Diaphragm Arterial Tree Venous Capillary exhalation Tree <mark>C</mark>irculation tra-Cellu

C€ II

~100T Cells

nvironmen

(Fluid)

Cellular Fluid ~28L

Cell

Cell

Cili

Heart

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through the left heart upon exhalation. Please consider

Positive pressure exerted by arterial flow moves fluid from capillary circulation to

the implications.

cells.



Negative pressure exerted by venous flow removes metabolic waste from cells.