

## Chemoreceptors Are Needed By You!

Chemoreceptors help us take chances,  
Performing athletic activities: climbs runs, and dances,  
Chemoreceptors, there are Peripheral and central,  
Hypoxia, hypercapnia, their responses are flexible.

Like other things, we know they are not perfect,  
Only peripheral ones respond to a hypoxic condition.  
If these are not working, there is a serious defect,  
Because there will be no increase in ventilation.

Peripheral chemoreceptors provide a rapid response to changes in blood gases,  
Activation of central chemoreceptors occurs as time passes.  
Located in aortic and carotid bodies in the neck,  
Supplied by occipital and coronary arteries, allowing for the great trek.

Central chemoreceptors, eighty percent of the responses they make up,  
Respond to hypercapnia, causing panting like a pup.  
Hydrogen ions are thought to stimulate the central chemoreceptors,  
But only carbon dioxide can cross the blood-brain barrier.

Sleep and Anesthesia cause diminished activity,  
This, however, makes them no less worthy,  
They hang in until the going gets better,  
We should cherish their activity forever and ever!

By Jen Davis