## Chemoreceptor Facts And All The Information One Still Lacks

Chemoreceptor stimulation causes changes in ventilation

Imbalances in PaO2, PaCO2, and pH can be caused by excitation.

These changes are sensed

By peripheral and central chemoreceptors when stimulation is commenced.

The peripheral chemoreceptors were first described in 1743

By Ludwig Taubo but he would never see

The credit as his supervisor, Von Halter

Claimed it for his own. But he would falter

As Carl Samuel Andrich in 1750 would publish his findings.

It was "glandula carotida" according to Hubert Luschka's mindings.

It didn't end there as Fernando de Castro y Rodriguez thought it might taste blood.

Corneille Heymans and many others used Rodriguez as a scientist bud.

Chemoreception was then born

But was never forlorn.

Peripheral chemoreceptors are located in the neck at the carotid body bifurcation

And respond to changes in pH, but mainly hypoxia for stimulation.

They receive blood from the occipital artery and innervation from the carotid sinus nerve.

20% of the response they do serve.

The histology consists of a Type I cell and a Type II cell

But many of the hypotheses for functioning fell

Metabolic, Acidic, and Cholinergic

Membrane-Protein Channel, and Dopaminergic

All proved to be somewhat wrong

But some would last for long.

Central chemoreceptors, on the other hand

Are on high demand.

They are located in the brain

But do not respond to pain.

Generally thought to be in the ventral medulla 3mm below

And are not known to flow.

Eugene Nattie did an acidification focal

But his results haven't been well replicated and thus are thought to be local.

Central chemoreceptors respond to high carbon dioxide levels

In the blood even if achieved by being a devil.

CO2 diffuses through the blood and cerebral spinal fluid until finally

It reaches the receptor and stimulates kindly.

Little is known about their structure

But they aren't known to rupture.

They are slow to act

Yet are a large part of the effect; that's a fact.

## All in all

Chemoreceptor function cannot fall.

They function in accordance to control ventilation

And do so through the outlined stimulation.

For if functioning does cease, one can take one last big sigh

As you are almost sure to die.

Much is left to be uncovered

But that is left for us future scientists to discover.