

My other twin inhabits near the bifurcation of carotid arteries
Blood supplied from the occipital artery
With glossopharyngeal nerves to medulla to where I send my telepathy
Glomus and sustentacular cells are what my genetic compulsory

Severe hemorrhage increases my pulsation
Response to physically dissolved oxygen is my only passion
Cyanide and dinitrophenol can block oxidative phosphorylation or ATP formation
Both of which will definitely boost my stimulation

Hypotheses for signal transmission continues to be a curiosity
Cholinergic, dopaminergic, metabolic, or acidic can be a possibility
Membrane protein channel provides insights to K⁺ permeability
All in all, response to hypoxia is my primary responsibility

I AM C.P.C!

(C.P.C. = central, peripheral chemoreceptors)

Adrian Hui

Central

From where I am, no one can see my clear
8th and 11th cranial nerves I might be near
It's hard to know how far to the surface from here
But buried somewhere beneath the ventral surface of medulla oblongata, my peers

Weather in CSF can be dramatic
Winter arrives, and I will remain static
While acid rain falls, instinctively energetic
Paralyzed when respond to local anesthetics

From the capillary to CSF, CO₂ diffuses steadily
The fall of acid rain about to begin heavily
Rescue from bicarbonate, but never adequately
It will be minutes before the equilibrium and stability

When elevated CO₂ level is imminent
Situation becomes state-dependent
Awake and hypoxic is when I am most efficient
Whereas narcotic and anesthetic, most dormant

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Peripheral

From where I am, I can see high blood traffic
Drive to breathe when it's hypoxic
A diameter of 1mm is truly microscopic
I locate near the carotid bodies and the arch of the aortic

Gratified to have Wilhelm Ludwig Taubo to discover my existence
But not until two hundreds years after do I receive great observance
Nobel Prize awarded to Comeille Heymans for rediscovering my presence
I can only smirk to see many more findings to boost my public appearance

Between the arch of aorta and pulmonary artery is one of the places I reside
Blood supplied from branches of coronary artery along my bedside
With nucleus tractus solitarius via vagus nerves I confide
But much fewer spotlights have been shone on my side