

# Superb Purple Non-Sulfur Bacteria

Abbas Alloul\*, Janne Spanoghe\*, Myrsini Sakarika\*, **Siegfried E. Vlaeminck**

Research Group of Sustainable Energy, Air and Water Technology (DuEL), Department of Bioscience Engineering,  
University of Antwerpen, Groenenborgerlaan 171, 2020 Antwerpen, Belgium

\*Equally contributed; Contact: [Siegfried.Vlaeminck@UAntwerpen.be](mailto:Siegfried.Vlaeminck@UAntwerpen.be)

Wandering around the globe  
Roaming the extremes  
A great explorer but a microbe  
From hot springs to polar regimes<sup>1</sup>



Credits: <http://shrimp.anu.edu.au/people/jjb/Research%20Projects>



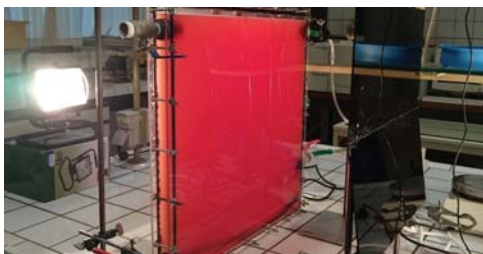
Credits: University of Antwerp

Colors from purple, brown to red  
Even orange is one of my shades  
Must be the carotenoids I imbed<sup>1</sup>  
My versatile disguise, one of my traits

On ultraviolet to infrared light  
Growing at astronomic speed<sup>1,2</sup>  
The biorefinery's new knight,  
A true metabolic centipede



Credits: <http://www.nature.com/news/2009/090121/full/news>



Credits: University of Antwerp

Give me light or hide it  
With or without oxygen I thrive  
On organic carbon or deprived of it<sup>2</sup>  
No matter what, I will survive

I can be fertilizer<sup>3,4</sup>, feed<sup>5</sup>, food  
On Earth or on the Moon<sup>6</sup>  
Any eco-friendly route  
Finally leading to your spoon



Credits: <http://www.melissafoundation.org/>

