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Name: Miss Blue Vanilla

Class: Essencia Coli

Subclass: Control Bacteria

Special Power: Vanilla Production

Date of Birth: Summer 2009

Location: K.U.Leuven

My Mission

I belong to a class of odour producing bacteria: 'Essencia Coli'. My special asset is Vanilla. My designers equipped me with a control system that keeps the concentration of vanillin at a constant level. The novelty of this project is the feedback mechanism. Vanillin synthesis is initiated by irradiation with blue light. The preferred concentration can be modulated using the intensity of that light. At the same time I can measure the amount of vanillin outside the cell and control its production to maintain the set point.

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My Team