



Photo

Sergio Figueroa-Cardona

PhD student

Project: Modelling and optimization of Biopesticides/SAFWA

Supervisor(s):

Cesar Aceves-Lara/ EAD7, Carlos Robles-Rodríguez/ EAD 10

Funding: Horizon 2020

Key words: Hybrid Modelling · Machine Learning · Kinetics

Background

Currently focused on the development of dynamic hybrid models to describe and optimize biopesticide production using *Bacillus Thuringiensis* (Bt) under various conditions.

Currently working on

- ✓ Develop a hybrid model for Bt using industrial substrate
- ✓ Optimize the production chain of the biopesticide using the previous model

Scientific communications

[Articles published/in progress]

- Figueroa-Cardona S., Robles-Rodríguez C.E., El-Jeni R., Fillaudeau L., Aceves-Lara C.A. (2024). Dynamic hybrid modelling for biopesticides production using *Bacillus thuringiensis* strains. *Lecture Notes in Networks and Systems*. (Accepted)
- Figueroa-Cardona S., Robles-Rodríguez C.E., El-Jeni R., Fillaudeau L., Aceves-Lara C.A. (2025). Hybrid model for biopesticides production using industrial substrate. *Chemical Engineering Transactions Journal* (Abstract accepted)

[Congress/Posters/PhD day]

- International conference on Distributed Computer and Artificial Intelligence (DCAI), 2024, Salamanca, Spain.

[Awards]

Contact me

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