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Title: Parameter estimation of a dynamic model of *Escherichia coli* fed-batch cultures

Author: C. Retamal L. Dewasme A.-L. Hantson A. Vande Wouwer



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**Highlights :**

- An original sequential modeling strategy applied to *E. coli* fed-batch cultures;
- A practical strategic experiment design supported by the Fisher information;
- A validation of the overflow metabolism assumption;
- A complete and informative database using several analytical devices.

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