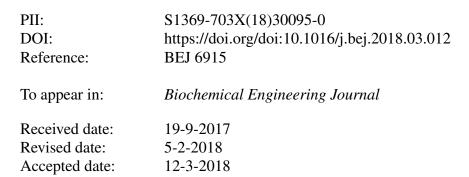
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ACCEPTED MANUSCRIPT

<u>Highlights :</u>

- 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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