# **Title**

# **Control of parallelized bioreactors II – Screening and probalistic quantification of carboxylic acid reductase activity for whole-cell biocatalysis**

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Conflicts of interest/Competing interests

Dirk Weuster-Botz is Editor-in-Chief of Bioprocess and Biosystems Engineering. One of the Associate Editors of the journal was assigned to assume responsibility for overseeing peer review.

Availability of data and material

Not applicable

Code availability

The SiLA 2 device drivers are publicly available in the following GitLab repository: https://gitlab.com/biovt/sila2lib\_implementations

Authors’ contributions

Nikolas von den Eichen, Michael Osthege, Marco Oldiges and Dirk Weuster-Botz contributed to the conception and design of the study; Supervision and funding acquisition by Dirk Weuster-Botz, Marco Oldiges and Wolfgang Wiechert; Nikolas von den Eichen, Michael Osthege and Lukas Bromig designed, realized and validated the software; Nikolas von den Eichen and Michael Osthege provided the figures and the original draft of the manuscript. Nikolas von den Eichen and Michaela Dölle conducted the experiments. All the authors contributed to the critical revision and final approval of the manuscript.

Ethics approval

Not applicable

Consent to participate

Not applicable

Consent for publication

Not applicable