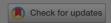Articles

Modelling ramp-up curves to reflect learning: improving capacity planning in secondary pharmaceutical production

Klaus R.N. Hansen & Martin Grunow ✉

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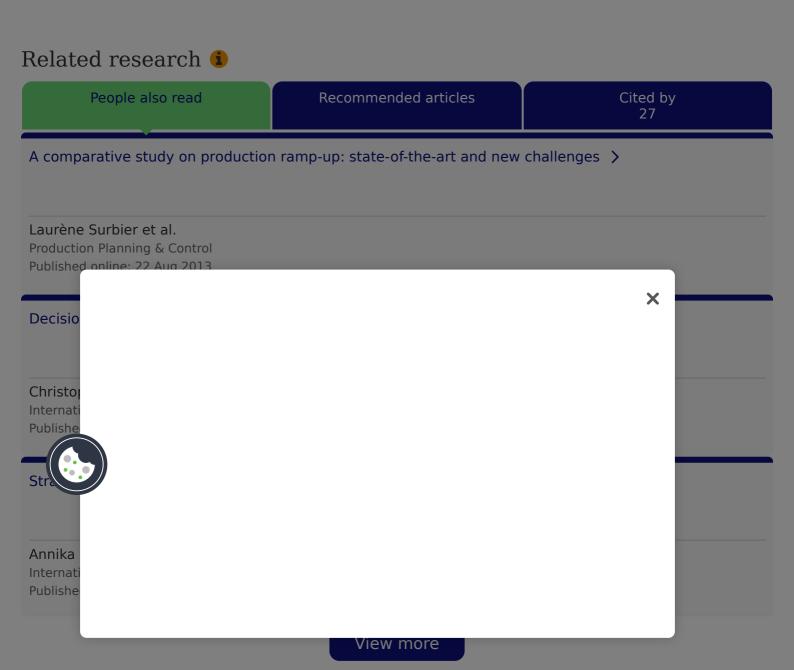
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empirically observed ramp-up curves to demonstrate its value as decision support tool. We demonstrate the superiority of our volume-dependent method over the traditional time-dependent ramp-up functions and derive managerial insights into the selection of ramp-up function and the value of shortening ramp-ups.

Acknowledgement

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