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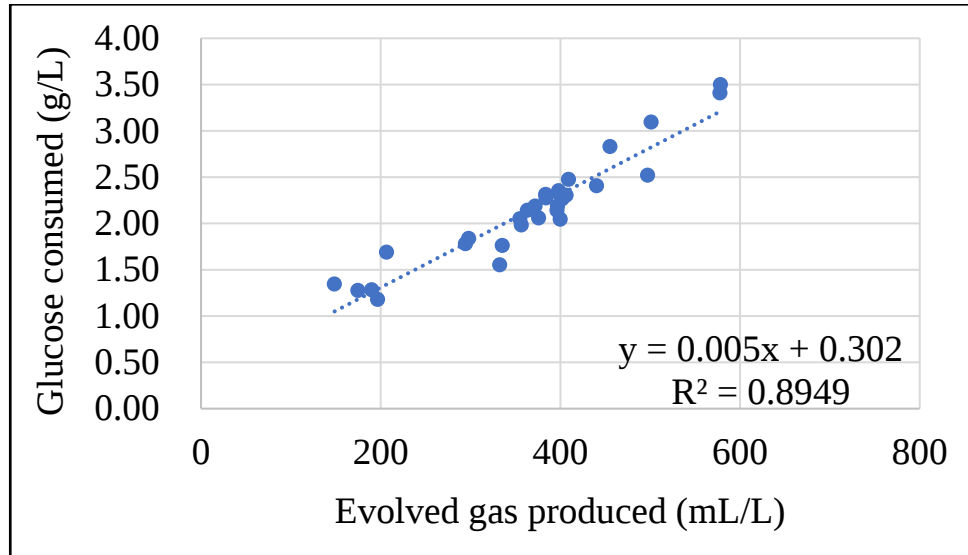
**An adaptive, continuous substrate feeding strategy based on evolved gas to
improve fed-batch ethanol fermentation**

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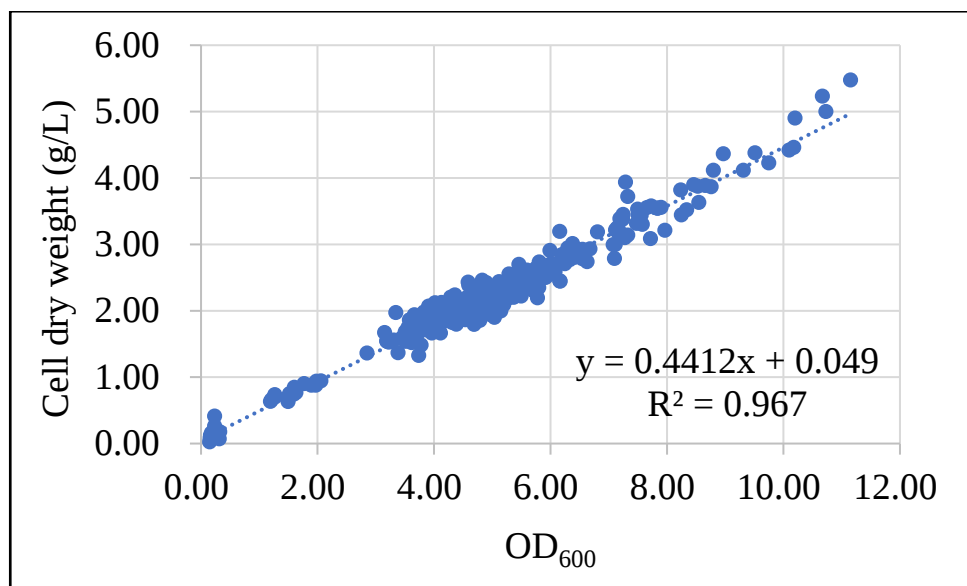
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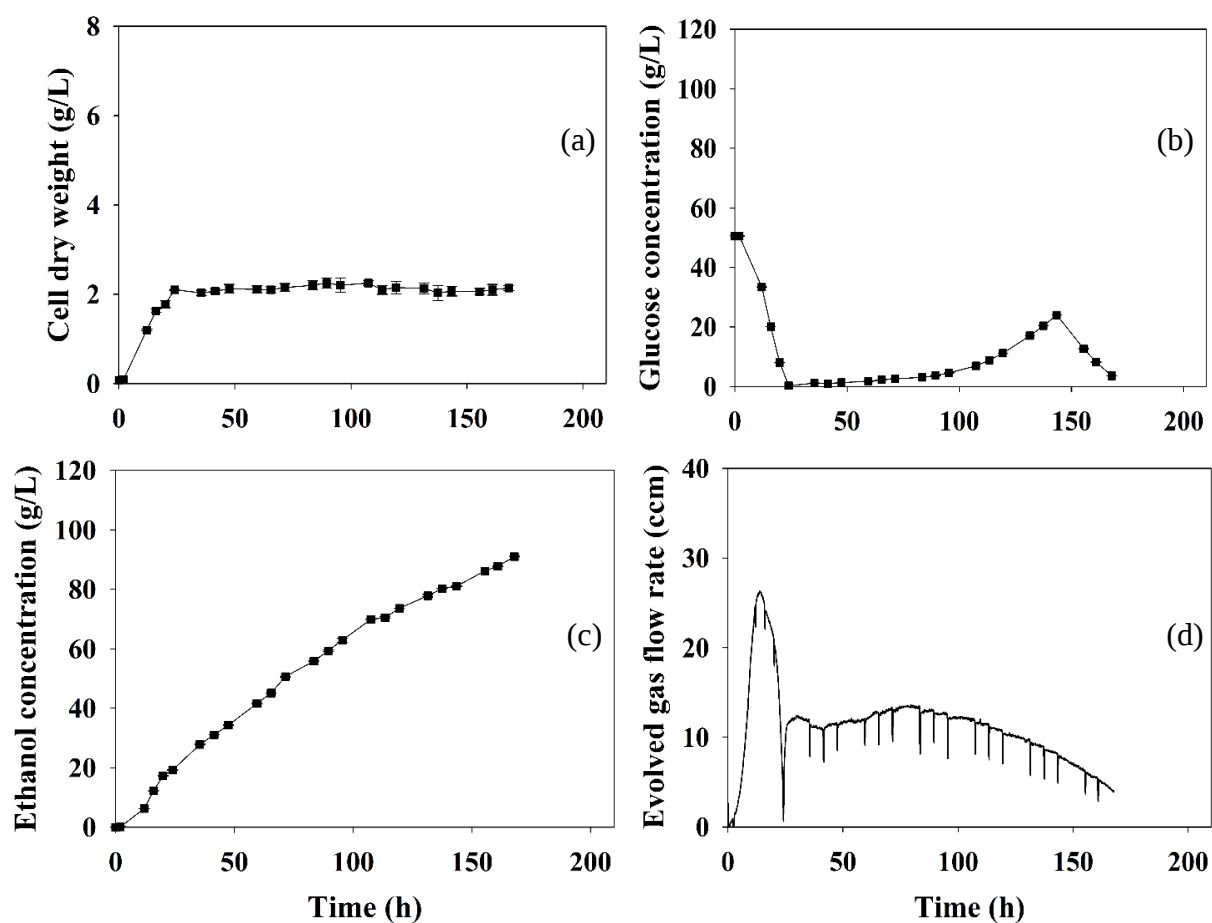
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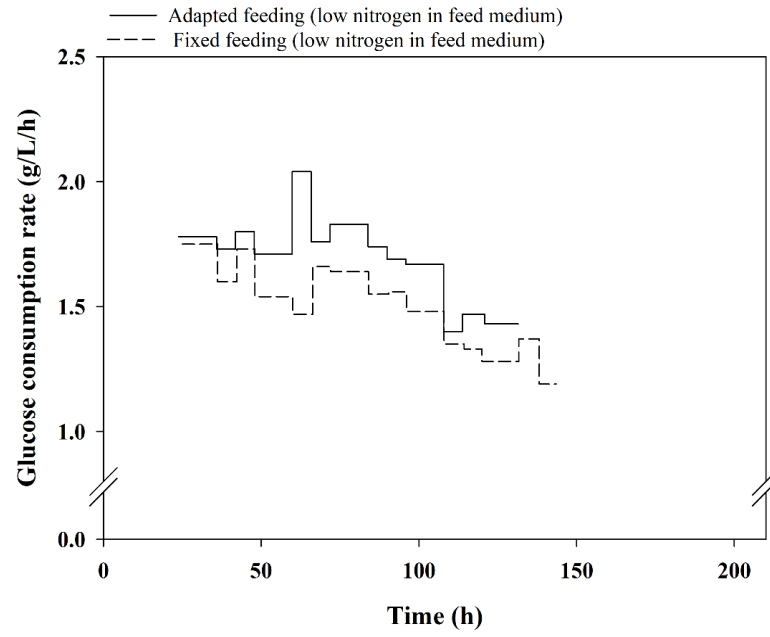
Supplementary Fig. S1: The correlation between evolved gas produced (mL/L) and glucose consumed (g/L) per reactor volume in ethanol fermentation of *S. cerevisiae*



Supplementary Fig. S2: The correlation between OD₆₀₀ and cell dry weight (g/L)



Supplementary Fig. S3: Cell dry weight (a), glucose concentration (b), ethanol concentration (c), and evolved gas flow rate (d) in fed-batch fermentation of *S. cerevisiae* cultures undergoing fixed continuous feeding strategies with low nitrogen medium. Means are reported for analytical triplicates (n=3), with error bars representing standard deviation



Supplementary Fig. S4: Glucose consumption rate in fed-batch fermentation of *S. cerevisiae* cultures undergoing fixed and adapted continuous feeding strategies with low nitrogen medium