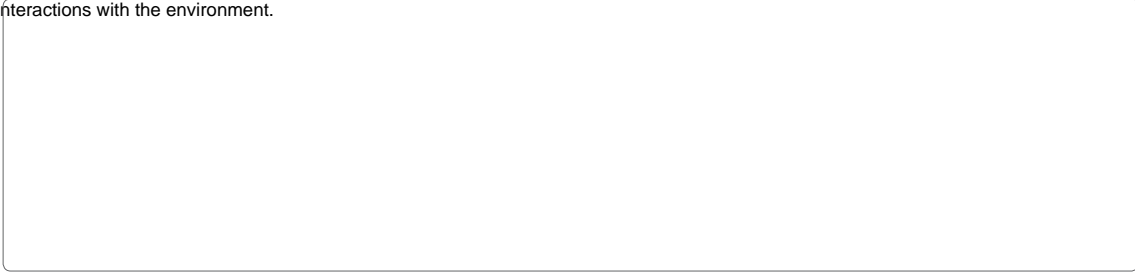


Cell Surface Engineering in Yeast Biotechnology

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Institutes of Science and Development, Chinese Academy of Sciences, Beijing, China. *Abstract* Cell surface engineering in yeast biotechnology involves genetic modification of yeast cell surfaces for various applications, including biosensing, drug delivery, and industrial bioprocesses. Key techniques include glycoengineering, incorporation of cellulosic binding modules, and synthetic biology approaches.

These techniques enable the precise manipulation of cell surface properties, influencing substrate utilization, product formation, and interactions with the environment.



Keywords:

cell surface engineering, yeast biotechnology, glycoengineering, synthetic biology, cellulosic binding modules

Introduction

Yeast, *Saccharomyces cerevisiae*, is a model organism for cell surface engineering due to its genetic tractability and well-defined cell wall structure.

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References

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