

## **Niekonwencjonalne drożdże w produkcji heterologicznych białek**

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### **Nonconventional yeasts in heterologous protein production**

#### **Summary**

The purpose of the paper was to describe nonconventional yeasts: *Hansenula polymorpha*, *Pichia pastoris*, *Yarrowia lipolytica*, *Arxula adenivorans*, *Kluyveromyces lactis* and *Debaryomyces hansenii* as affirmed or potential producers of heterologous proteins and biopharmaceutics. Cited species were characterized by genome size, particular physiological aspects and molecular tools used for genetic transformation. Advantages and disadvantages of production systems based on nonconventional yeasts were briefly discussed in comparison to well known industrial processes involving *Saccharomyces cerevisiae*, *Escherichia coli* or mammalian cells lines.

#### **Key words:**

nonconventional yeasts, heterologous protein, gene expression

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