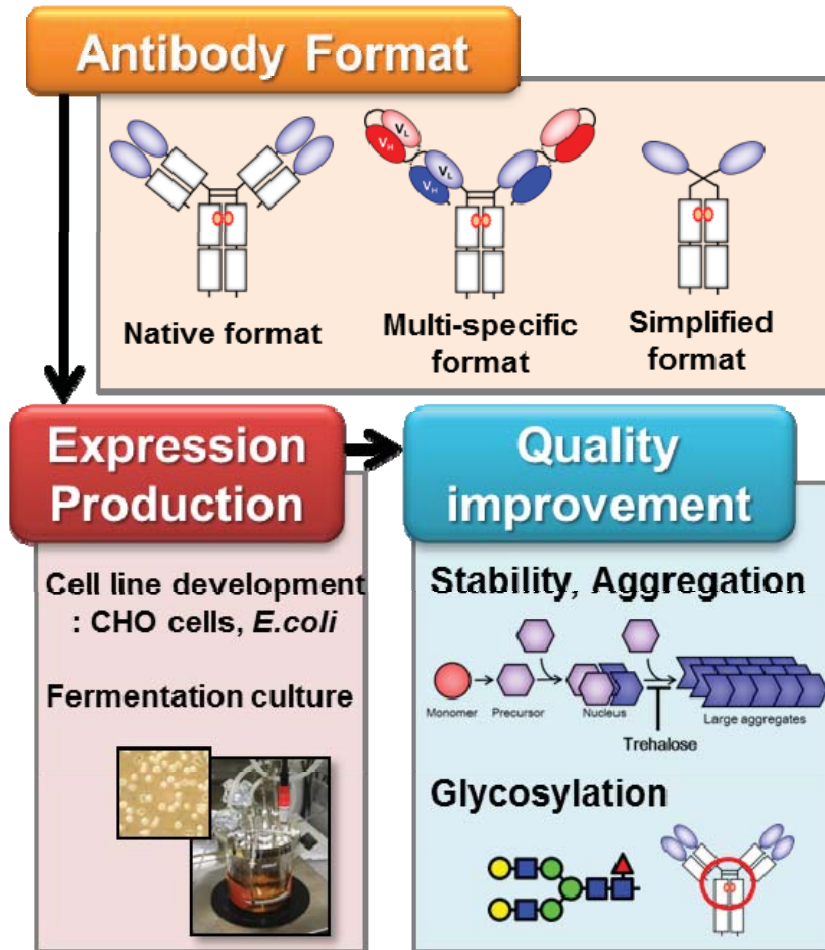


※図表を挿入して下さい。



Content:

Recently, engineered formats of antibody (such as multi-specific and simplified formats) have been emerged as promising candidate for next-generation therapeutic antibody. However, the strategies for their industrial production are not successfully constructed, because little is known about biophysical characteristics of the engineered formats.

The aim of the study is to develop the production process based on the characteristics of the engineered formats. Research topics are as follows:

- 1) Stability and aggregation analysis of engineered formats,
- 2) Cell line development for production of recombinant antibody using CHO cells and *E.coli*,
- 3) Development of chemical chaperone medium for anti-aggregation in cell culture,
- 4) N-glycosylation analysis of antibody and its improvement.

The study is performed as part of research interests of professor Takeshi Omasa.

Keywords: antibody production, Chinese hamster ovary (CHO) cells, antibody aggregation

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