"Agreement One" - used in reflection Stevioside synthesis by Saccharomyces cerevisiae

1. What kind of work are you doing?	Stevioside synthesis by
	Saccharomyces cerevisiae
2. Why are you doing this work?	Stevioside, as a new natural
Where did you get inspired?	sweetener, has been favored
	by people and has been
	widely used. But because
	stevioside is a new
	sweetener, people have not
	fully grasped its use.
	As a chassis organism with
	excellent synthetic biology, it
	is feasible to produce
	stevioside on a large scale
	by yeast.
3. What is current status?	Stevioside is extracted by
What information do you have?	soaking dried leaves of
	Stevia rebaudiana in water,
	separating liquid from leaves
	and stems through filtration,
	and further purifying by

water or food-grade
alcohol, which is a
completely traditional plant
extraction method. Thus, we
can get a pure natural and
sweet sweetener, stevioside,
which can be eaten daily but
will not affect the blood
sugar level.

 The impact this work may have on the world, consider the following:
 Society;

Economy;

Environment:

Morality;

Safety;

Others.

Society: Obesity has increasingly become a common problem of mankind. The large-scale application of sugar-free sweeteners may provide a solution to the problem of obesity in humans.

Economy: Biosynthesis of

sugar-free sweeteners may have a profound impact on the whole food industry,

with broad commercial prospects and huge economic effects. Environment:: In the production of traditional stevioside, ion exchange and large-scale use of macroporous resins have brought heavy burden to the environment. Safety: A large number of toxic preservatives have been added to the traditional stevioside production. Yeast biosynthesis is relatively safe. Morality: - N/A Stevioside synthesis by 5. Adjustments based on feedback Saccharomyces cerevisiae is significance. of great Transferring plant genes

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	into fungi and increasing
	yield and extraction is a
	relatively difficult task in the
	short term. At present, large
	companies have carried out
	this research and made
	significant progress.
6. The result	Continue to focus on
	relevant directions as a
	long-term research
	alternative.