Recent development of biomedical engineering as well as basic biology and medicine has enabled us to induce cell-based regeneration of body tissue assisted with the self-repairing potential tissue or substitute biological functions of damaged organs with cells. For successful tissue regeneration, it is indispensable to give cells an environment suitable for induction of cell-based tissue regeneration. Tissue engineering is a newly emerging biomedical technology to create the environment for tissue regeneration with various biomaterials. This paper overviews recent researches and clinical data about oral tissues regeneration based on tissue engineering briefly explaining the key technologies of tissue engineering.

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**Key words**

Introduction

Fundamental Technologies for Tissue Engineering
Oral Tissues Regeneration with Tissue Engineering Technologies
Gelatin/β-TCP = 75/25  Gelatin/β-TCP = 50/50  Gelatin/β-TCP = 25/75

A  B  C  D

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Concluding remarks and future directions

Following the detailed analysis and discussion of the subject matter, it is time to conclude and outline potential areas for future research. The conclusions drawn from the analysis are significant and provide a strong foundation for further exploration.

The research has identified several key areas that require further investigation. These areas include:

1. **Methodological Enhancements**: The current methods used in the analysis may be refined to improve accuracy and efficiency. This could involve the development of new statistical techniques or the adaptation of existing ones.

2. **Data Collection Techniques**: The data collected in this study could be further expanded by utilizing different methodologies. This could include the use of online surveys, focus groups, or other qualitative methods.

3. **Cross-Cultural Studies**: The research could be broadened to include a cross-cultural perspective. This would involve studying the same phenomena in different cultural contexts to understand the universal and cultural-specific aspects better.

4. **Longitudinal Studies**: Conducting longitudinal studies could provide insights into the developmental trends and changes over time. This would involve tracking the same subjects over an extended period to observe how variables evolve.

5. **Economic Implications**: The economic implications of the findings should be explored in more detail. This could involve examining the potential economic benefits or drawbacks of the identified phenomena.

These areas offer promising avenues for future research. By addressing these questions, researchers can contribute significantly to the field and potentially lead to practical applications.

In conclusion, the research presented in this paper has shed light on several critical aspects of the subject matter. The conclusions drawn are based on a comprehensive analysis of the available data, and the implications for future research are far-reaching.

Furthermore, the research questions presented here could serve as a starting point for developing new hypotheses and investigations. By pursuing these areas, the field can move forward, and new insights and knowledge can be gained.

In summary, the conclusions of this study suggest that there is a need for continued research and that the identified gaps in knowledge provide fertile ground for future exploration.