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Interpretation and Gene Extraction of Typical Patterns in Palace Costumes of the Mid Qing Dynasty

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Abstract: This article explores in depth the characteristics of typical patterns in mid Qing dynasty palace costumes, the problems in gene extraction, and optimization strategies. Firstly, it provides a detailed analysis of the typical pattern characteristics of mid Qing dynasty palace costumes from three aspects: pattern types and composition features, cultural and symbolic meanings, and production techniques and technological inheritance. The second point is to point out the problems faced in the process of pattern gene extraction, and propose optimization measures such as strengthening data organization and protection, deepening gene extraction and interpretation, and promoting the integration of inheritance and innovation. The aim is to provide theoretical support and practical guidance for the protection and inheritance of the pattern genes of palace costumes in the mid Qing Dynasty.

Keywords: Mid Qing Dynasty Palace Costumes; Typical Patterns; Gene Extraction; Cultural Inheritance.

1. Introduction

As one of the peak periods of ancient Chinese clothing culture in the mid Qing Dynasty, its court costumes were renowned for their exquisite craftsmanship, rich patterns, and profound cultural connotations. The typical patterns in palace costumes not only reflect the nobility and authority of the royal family, but also carry rich historical, cultural, and religious information. With the changes of the times and the development of technology, how to effectively extract, protect, and inherit these valuable pattern genes has become an urgent problem to be solved. This article aims to systematically analyze the typical pattern characteristics and gene extraction problems of palace costumes in the mid Qing Dynasty, and propose corresponding optimization strategies to provide reference for research and practice in related fields.

2. The Characteristics of Typical Patterns in Palace Costumes During the Mid Qing Dynasty

2.1. Pattern Types and Composition Features

The typical patterns of palace costumes in the mid Qing Dynasty were rich and colorful, mainly including the majesty of dragons and phoenixes, the splendor of peonies and wealth, and the harmony of auspicious clouds and auspiciousness. These patterns strictly follow the aesthetic principles of symmetry, balance, and hierarchy in composition, presenting a harmonious yet ever-changing visual effect. In terms of color application, emphasis is placed on the contrast and coordination of colors. Through the symbolic meanings of colors such as the brilliance of gold, the warmth of red, and the tranquility of blue, the artistic expression and visual impact of patterns are strengthened.

2.2. Cultural Symbolism and Symbolic Meaning

The patterns of palace costumes in the mid Qing Dynasty were not only ornate, but also contained profound cultural and symbolic meanings. Rooted in the historical background of the mid Qing Dynasty, they carried rich cultural connotations, such as the dragon pattern symbolizing the supremacy of imperial power, and the phoenix pattern representing the nobility and softness of the empress, jointly constructing the hierarchical system of palace costumes. At the same time, these patterns were closely related to the religious beliefs of the time, incorporating elements such as auspicious clouds and lotus flowers, reflecting the profound influence of Buddhist culture on the art of palace costumes.

2.3. Production Process and Technology Inheritance

The production of patterns on palace costumes in the mid Qing Dynasty blended the precision of embroidery, the complexity of weaving, and the luxury of inlaying, achieving a high level of traditional craftsmanship. At this time, continuous breakthroughs were made in pattern making, introducing new materials and techniques, laying a solid foundation for future clothing art. The inheritance of skills is facing challenges, and traditional crafts are gradually declining under the impact of modern industrialization. In order to protect and develop these precious skills, it is necessary to strengthen the training of inheritors, promote the integration of technological innovation and traditional crafts, and enhance social awareness and participation.

3. The Problems in Extracting Typical Pattern Genes of Palace Costumes in the Mid Qing Dynasty

3.1. Data Organization and Protection

In the process of extracting genes for typical patterns of palace costumes in the mid Qing Dynasty, data organization and protection became the primary challenge. Due to historical reasons, relevant pattern materials are scattered among museums, archives, and private collections in various places, making it difficult to form a systematic integration and causing great inconvenience to research work. At the same

time, after years of baptism, physical clothing generally faces problems such as physical wear and chemical corrosion. How to effectively protect these precious cultural heritages and prevent their further deterioration has become an urgent problem to be solved. Although digital technology has been applied in the field of cultural relic protection, the existing methods for organizing and protecting the pattern data of palace costumes in the mid Qing Dynasty are still insufficient, making it difficult to comprehensively and accurately record and reproduce the details and features of patterns, which limits the depth and breadth of pattern gene extraction.

3.2. The Complexity of Gene Extraction

The extraction process of typical pattern genes for palace costumes in the mid Qing Dynasty was complex and multidimensional, with the primary challenge being the diversity of design elements in the patterns and the complexity of their interrelationships. These patterns often blend multiple artistic elements, such as lines, colors, patterns, etc., which are both independent and closely related to each other, forming a complex and exquisite artistic system. Observers in different cultural contexts have different understandings of pattern genes, which poses challenges for accurate extraction of pattern genes. The current technological means still have limitations in extracting pattern genes, such as the accuracy of image recognition technology, the accuracy of color reproduction, and the ability to capture texture details, which are difficult to fully meet research needs and further increase the complexity of gene extraction.

3.3. The Contradiction between Inheritance and Innovation

In the process of inheriting and innovating the typical pattern genes of palace costumes in the mid Qing Dynasty, the conflict between tradition and modernity became an undeniable issue. How to integrate modern aesthetic and technological elements on the basis of respecting and inheriting traditional pattern genes, and achieve harmonious coexistence between tradition and modernity, is a major challenge faced by researchers and practitioners. At the same time, there are also many risks associated with the innovation process, such as cultural misreading that may cause patterns to lose their original cultural connotations and symbolic meanings, and uncertainty in market acceptance that may affect the dissemination and application of innovative results.

4. Optimization Strategies for Gene Extraction of Typical Patterns in Palace Costumes During the Mid Qing Dynasty

4.1. Strengthen Data Organization and Protection

In response to the problem of data organization and protection during the gene extraction process of typical patterns in mid Qing dynasty palace costumes, the following optimization measures are proposed. Firstly, we should actively promote the establishment of a comprehensive and systematic database of mid Qing dynasty palace costume patterns. Through digital means, we can integrate scattered pattern data on the same platform, achieve resource sharing and efficient utilization, and provide convenient data support for researchers. The second is to strengthen the professional protection and research of physical clothing, introduce advanced cultural relic protection technologies, scientifically repair and properly preserve damaged clothing, delay its physical and chemical damage process, and ensure the authenticity and integrity of pattern genes. Finally, we will deepen digital construction by utilizing advanced technologies such as 3D scanning, high-definition photography, and virtual reality to conduct high-precision digital collection and processing of patterns, improve the efficiency of pattern data organization, display, and dissemination, and broaden the channels and scope of pattern gene dissemination.

4.2. Deepen Gene Extraction and Interpretation

To deepen the extraction and interpretation of typical pattern genes in mid Qing dynasty palace costumes, interdisciplinary research strategies should be adopted, encouraging scholars from fields such as history, art, and computer science to participate together. Through interdisciplinary integration, research perspectives should be broadened, and understanding of pattern genes should be deepened. At the same time, a combination of quantitative and qualitative methods should be adopted, using quantitative techniques such as statistics and image recognition to accurately measure and analyze pattern elements, and combining qualitative research methods such as art history and cultural studies to reveal the cultural connotations and symbolic meanings behind patterns. We also need to pay attention to the importance of cultural context in understanding pattern genes, strengthen cross-cultural comparative research, explore the commonalities and differences of pattern genes under different cultural backgrounds, and provide a solid foundation for accurate extraction and diverse interpretation of pattern genes.

4.3. Promote the Integration of Inheritance and Innovation

To effectively promote the inheritance and innovative integration of typical pattern genes in the mid Qing dynasty palace costumes, multiple measures need to be taken simultaneously. Firstly, it is necessary to strengthen the inheritance and training of the production techniques of palace costume patterns. By establishing special funds, establishing a system of inheritors, and carrying out skill exchange activities, a new generation of inheritors should be cultivated to ensure the continuity and development of traditional skills. The second is to encourage designers to innovate on the basis of respecting tradition, by deeply exploring the cultural connotations and aesthetic characteristics of pattern genes, combining modern design concepts and market demand, cleverly integrating pattern genes into modern design, and creating design works that have both traditional charm and contemporary aesthetics. Finally, we will strengthen cultural dissemination and education by organizing various forms such as exhibitions, lectures, and educational projects to popularize knowledge of palace clothing patterns in the mid Qing Dynasty, enhance public cultural identity and participation, and create a good social atmosphere for the inheritance and innovation of pattern genes.

5. Summary

This article reveals the unique artistic charm and profound cultural connotations of the typical patterns of palace costumes in the mid Qing Dynasty through in-depth research. At the same time, in response to the problems of data dispersion, protection difficulties, technical limitations, and the contradiction between inheritance and innovation in the process of pattern gene extraction, optimization measures such as strengthening data organization and protection, deepening gene extraction and interpretation, and promoting the integration of inheritance and innovation are proposed. The implementation of these measures will help better protect and inherit the genes of the patterns of palace costumes in the mid Qing Dynasty, and promote the inheritance and development of traditional Chinese costume culture.

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