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Analysis on The Status Quo and Development of Medicinal Plant Resources Development and Utilization

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Abstract: Medicinal plant resources have very high application value. In recent years, with the continuous development of Chinese traditional medicine industry, medicinal plant resources have also been developed and utilized to a certain extent, but there are still many in the specific development process. The problem is that it is difficult to meet the specific needs of the society, and directly affects the utilization rate of medicinal plant resources and the application effect. This paper mainly analyzes the status quo and development of medicinal plant resources.

1. Introduction

Medicinal plant resources refer to plants containing certain healthy and medicinal functional substances. In recent years, it has been found that plant extracts contain some new structural compounds, which are also good for cardiovascular diseases, diabetes and other diseases. However, the medicinal value of many plants has not yet been effectively developed, which requires relevant personnel to strengthen the emphasis on this aspect, and needs to strengthen the utilization of medicinal plant resources to promote people's health and achieve the further improvement.

2. Analysis on the Status Quo of Utilization of Medicinal Plant Resources

China has the most abundant drug resources in the world. At present, it has formed a multi-level and multi-faceted development and utilization model for medicinal plant resources, and has achieved good development results. The analysis of the status quo of the utilization of medicinal plant resources in China is mainly reflected in the development and research work of ethnic medicines and new folk medicines. At present, China has developed more than 3,700 ethnic new medicines, of which more than 5% of the existing commercial medicinal materials are gradually developed by folk medicines and ethnic medicines. For example, "Jiangu Injection", a therapeutic drug for bone hyperplasia, is made by applying Huangmao bean curd in Guangxi folk medicine, while the compound grass coral lozenge is developed through Jiangxi folk herbal coral. Therefore, China has achieved good development effects on ethnic medicinal resources, and it also is an important basis for research and development of related new drugs [1].

At present, in the process of applying medicinal plant resources to the development of new folk medicines in China, the main development pathways include the following: ① The use of related drugs for the development of alternative medicines. For example, the relative plants of the Indian snake root wood contain Yunnan Rauvolfia, both of which have good therapeutic effects on hypertension, but the toxic side effects of Yunnan Rauvolfia are smaller and can reduce the treatment



of patients. The occurrence of complications during the process. ② Extraction of natural active ingredients, for example, direct extraction of purple alcohol components in the genus *Taxus*, thereby obtaining a good anti-tumor effect. ③ Comprehensive development of medicinal parts. The above-ground part and root of medicinal plant of *Coptis chinensis* have different medicinal value, and it is necessary to carry out targeted development of drugs based on the characteristics of various parts of plant resources. ④ Comprehensive development of medicinal ingredients. For example, the water-soluble saponin extracted from the residue of leaf yam can also have a good therapeutic effect on atherosclerosis. ⑤ Plant metabolic pathway research. For example, in the process of research and development of anti-tumor drugs, in-depth exploration of suitable conditions and effective methods for drug synthesis such as paclitaxel. ⑥ Production technology product development. At present, China has obtained good application effects on the tissue culture and rapid propagation techniques of medicinal plants such as *Dendrobium* and *Taxus*, and can directly obtain ginsenosides in ginseng cultures [2].

China has a wide variety of medicinal plants, which are capable of separating and purifying natural compounds. At present, there are tens of thousands of compounds identified and available in medicinal plants. In recent years, with the continuous development of China's medical industry, it has also achieved good results in the research of new drugs for medicinal resources, and has achieved great influence at home and abroad. Table 1 shows the concrete results achieved by China in the field of new drug research.

Table 1: Application of medicinal resources in China in the field of new drugs

Drug Name	Medicinal plant source	Pharmacodynamic effect
Artemisinin	<i>Artemisia annua</i>	Antimalarial
Biphenyl diester	<i>Schisandra</i>	Reduce serum alanine aminotransferase
Scopolamine	<i>Belladonna</i> , <i>Datura</i> , <i>Beiyang Golden Flower</i>	Improve human microcirculation
Camptothecin	<i>Sycamore</i>	Inhibition of tumor
Ergotine		Treatment of migraine

With the continuous improvement of people's living standards, the demand for medicinal plants has also increased substantially. In recent years, the market transaction volume of medicinal plants in China has increased at a rate of about 20% per year. In addition, the relevant departments of the state have become more and more concerned about the development of the medicinal plant industry, and introduced a series of preferential policies, which has promoted the further development of China's pharmaceutical plant industry. For example, at this stage, a number of Chinese herbal medicine standardized chemical plant planting bases have been constructed nationwide, and the management and supervision of medicinal plant production links have been carried out on the basis of combining good agricultural practices. Since the construction of the first batch of Danshen drug source bases in line with good agricultural practices in Shaanxi Province, more than 600 medicinal plant production bases have been established nationwide, and the government departments have also given good policy support in supporting policies and facilities construction [3].

Although China's medicinal plants have a very large reserve, there are still problems such as uneven distribution, which requires relevant departments to conduct in-depth analysis of the development and utilization of medicinal plants. Let the efficacy of medicinal plants be maximized. At present, more than 80% of medicinal plant resources in China have been well developed and utilized, and 20% of the medicinal materials have been produced by artificial planting, which has further enhanced the development of medicinal plant resources. And got a good development and utilization

effect. In the research process of medicinal plant resources, most of the research is focused on prevention and treatment of anti-tumor drugs and neuro-drugs, and gradually develop towards comprehensive research methods.

3. Some Problems in the Development and Utilization of Medicinal Plant Resources

3.1 Study on The Destruction of Medicinal Plant Resources

With the continuous development of China's pharmaceutical level, the development and utilization of medicinal plant resources have also achieved good application results. However, due to the lack of scientific and effective guidance in the application of specific medicinal plant resources, some enterprises will also carry out over-exploitation of medicinal plant resources under the driving of economic interests. In this process, the ecological value cannot be fully paid attention to. In addition, in some areas, during the exploitation of medicinal plant resources, the protection of the natural environment and the long-term perspective were not considered, which caused the resources to be seriously damaged. In order to obtain their own interests, some lawless elements will also have problems such as over-excavation, reselling, and snapping up. This has caused great obstacles to the development of medicinal plant resources. Therefore, there is no perfect management standard for the development and utilization of medicinal plant resources in China. The rationality of development and utilization cannot be effectively guaranteed, and the problem of the destruction of medicinal plant resources is easy to occur, thus directly threatening the medicinal plant resources in China. Sustained and stable development [4].

3.2 Lack of Sustainable Use Technology

At present, China has not carried out in-depth analysis on the ability of cultivating medicinal plant resources. The lack of understanding of the growth law of some medicinal materials has caused many problems such as blind mining and over-exploitation in the mining process, which makes the resource utilization intensity far. It far exceeds the natural growth capacity of the population. In severe cases, it will also cause damage to the ecological balance of the region, and it will also cause certain damage to the sustainable development and utilization of medicinal plant resources. Therefore, at the present stage, there are still problems in the development and utilization of medicinal plant resources in China, such as the lack of sustainable use technology, which leads to the rationality of the development process and the scientific nature is difficult to obtain effective protection. In response to this problem, it is also required that relevant enterprises and government departments can strengthen the research on the growth of medicinal plant resources, and in the process of medicinal materials development, it is necessary to strengthen the emphasis on the surrounding ecological resources, in order to obtain a good economy and ecological benefits.

3.3 Insufficient Attention to Comprehensive Development and Utilization

There are many kinds of medicinal plant resources in China. Although many kinds of species have been discovered during the development of these resources, they have not been properly utilized, and the value of medicinal plant resources cannot be fully exerted. At present, China's medicinal resources development system has insufficient emphasis on its comprehensive utilization and deep processing technology. Relevant parts have not done relevant protection work in the process of developing wild medicinal resources, and it is difficult to obtain good development and utilization effects. In addition, the lack of comprehensive development and utilization concepts will also cause great obstacles to the development of medicinal plants.

4. Trends in The Development and Utilization of Medicinal Plant Resources

4.1 Pay Attention to Resource Protection Work

Only through the relevant protection work for wild medicinal plant resources, and a series of

management measures, we can avoid the occurrence of illegal mining behavior, can obtain the sustainable use of medicinal plant resources. In the process of plant growth, only when it adapts to the surrounding environment, can it form a sustainable development. In addition, some wild medicinal plant resources are not created by humans, and have the characteristics of slow regeneration. Therefore, in the process of developing and utilizing these medicinal plant resources, it is necessary to pay close attention to its recovery and regeneration, and adopt scientific and reasonable protection measures so that the surrounding ecological environment and the drug will not be used in the utilization process. The propagation of plants has an overwhelming effect. In the process of artificially cultivating medicinal plants, it is also necessary to carry out reasonable control of the cultivation environment and temperature on the basis of combining the actual growth environment of the medicinal plants to provide a good environment for the growth of medicinal plants to ensure continuous usage of resources [5].

4.2 Combining New Technologies with New Methods for the Development of Medicinal Plant Resources

With the continuous development of science and technology, people are beginning to realize that chemical synthetic drugs have certain toxic and side effects, which will have a very large impact on the human body. If a single chemical synthetic drug is used for treatment during the course of disease treatment, it may lead to mutation and drug resistance. Through the research of natural medicines, relevant technicians can also carry out research work on medicinal plants in the research results of molecular biology and molecular pharmacology, so that the development value of various medicinal plant resources can be fully obtained. Based on the traditional Chinese medicine concept, the traditional Chinese medicine compound research work is carried out through these traditional experiences, so that the understanding of medicinal plant resources can be deepened on the basis of in-depth analysis of medicinal plant resources. Then, based on the combination of the resource characteristics, the targeted development approach is selected, so that the utilization efficiency of medicinal plant resources is further improved. Therefore, the relevant departments and the technical personnel of the enterprises also need to actively adopt new technologies and new methods to continuously research and optimize the development of existing medicinal plant resources, so as to provide people with better quality therapeutic drugs for people's health. It also has a certain positive significance of the improvement of level.

4.3 Strengthen Research Investment

In the process of developing and utilizing medicinal plant resources, only the full understanding of the natural regeneration ability of these plant resources can guarantee the rationality and scientificity of the development and utilization of these resources. Therefore, the relevant technical personnel also need to strengthen research efforts in this area, reduce the damage to the ecological environment and plants caused by the development of medicinal plant resources, thereby obtaining good sustainable development effects and strengthening the resources for medicinal plants. Research efforts in composition formation and transformation. By strengthening scientific research support, on the basis of following the recycling rules, using comprehensive development and other forms to carry out the development of medicinal plant resources, it can also avoid problems such as waste of resources, and can protect the ecological environment. Maximizing economic benefits has a positive impact on the industry's continued and long-term development.

4.4 Do A Good Job in Information Construction

With the rapid development of information in China, research on medicinal plant resources has also provided new ways. By strengthening the mode of information construction work, it can also provide good convenience for the development of medicinal plant resources. The relevant information system is used to analyze and screen the medicinal plant resources in China. In this process, the key areas of development can be clarified, and the research direction of medicinal plant resources can be found in

time, and the utilization rate of the resources is also improved. Through information technology, it is also possible to screen out medicinal plant resources with good market prospects, and carry out cultivation research work on key demand resources to ensure that the output of resources can meet the specific needs of the social market. In addition, the application of information technology can make the analysis of medicinal plant resources more simple, and has certain positive significance for the development and utilization of this resource.

5. Conclusion:

With the continuous development of society, people's health awareness has been further improved, and the damage caused by western medicine to the human body has been recognized, and the demand for medicinal plant resources has been further increased. China has a very rich medicinal plant resources, but there are still many problems in the development and utilization of these resources, which requires related enterprises and departments to strengthen the reasonable development of the medicinal plant resources, the improvement of health level to provides enough drug resources for people.

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