

Project Management for Quality Control Research of Traditional  
Chinese Medicine Based on Technological Innovation

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This thesis describes a novel approach of project management system for quality control research of Traditional Chinese Medicine (TCM), based on the combination of technological innovation theory and practice. In order to further enhance the ability of old TCM to serve the needs of human health, researchers in China and other countries have initiated plentiful research and develop projects on TCM. Besides the efforts to introduce modern technology into TCM research, current practice also calls for more in-depth knowledge and tools from management science. As a well established system, project management is the application of knowledge, skills, tools and techniques to project activities which can also be specified to meet the requirement of different type of projects.

The goal of this thesis is to define a conceptional framework of project management system for quality control research of TCM. The framework will include tools and techniques from knowledge system of project management, which have been adjusted according to the specific requirements of quality control research of TCM. The results from this research are supposed to provide the project manager or principle investigator of quality control research project in TCM a reference about applying these tools from management discipline into their day to day practice.

Five process groups compose the whole scope of this project management system: initiating process group, planning process group, executing process group, monitoring and controlling process group, and closing process group. This thesis describe these five phases of project management for quality control research of TCM in relation to practical problems and regarding solutions. It also contains the main points about the keys to

combine technological innovation strategy in the project process. For testing the usefulness and practicability of established framework, there was developed one concrete application of quality control research on *Panax notoginseng* (*Sanqi*).

**Key words:** Project management, traditional Chinese medicine, technological innovation, research project, *Panax notoginseng*, *Sanqi*