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# The preparation and application of charming ubiquinone

**Du Qing**
Fresh-skyright international science and technology Co. Ltd., China

Ubiquinone (coenzyme Q) is the kinds of compound which are classified into the type of lipid soluble quinone from the structure. They have different structures because of the number of isoprenes present. We can know some research information about CoQ0, CoQ1, CoQ2, CoQ6, CoQ7, CoQ8, CoQ9, CoQ10 which has been synthesized or extracted from the plants by the way of chemical synthesis. However, the method of chemosynthesis has the limited efficiency and higher cost during the course of procedure; in addition, for the extraction from the natural medicine, the same problem exists. Therefore, with the development of genomics and microbiome technology, more and more chemistry can be induced and extracted from the diverse biological creature or microzyme for the intrinsic mechanism which is found by the international scientists. Coenzyme Q exists in three redox forms, fully oxidized (ubiquinone), semiquinone radical (ubisemiquinone) and fully reduced (ubiquinol). In addition, coenzyme Q can form micellar aggregates while working with together in cell-free system; however, in the living cell, coenzyme can dissolve in lipid bilayers and bound to proteins. Coenzyme Q is the center and an essential component of the mitochondrial electron transport chain. Coenzyme Q can closely combine with the protein in the respiratory chain to have the action from the intrinsic mechanism. So from the *in vivo* and *in vitro* studies, coenzyme Q has important applications in the study of pharmacology & clinics; such as, treating cardiovascular diseases, Parkinson's disease and Huntington's disease, etc. I would like to give the presentation in the review of the preparation and application of coenzyme Q in order to be supported by the experts and professors who are always interested in the study on the relative area and give us better opinions or investment on the research projects.

## Biography

Duqing has completed her PhD in the year 2015 in the Major of pharmacognosy from the Institute of Medicinal Plant Development, Chinese Academy of Medical Sciences and Peking Union Medical College. She also did Post-doctoral studies at the Institute of Genetics and Developmental Biology, Beijing, China until the April of 2016. She is the Member of American Society of Plant Biologists and Chinese Society for Cell Biology. She is a Pharmacist and the Member of Chinese Pharmacist Association. She has published more than 5 papers in the BMC and Chinese famous journals in research groups.

bjdfydq@163.com

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