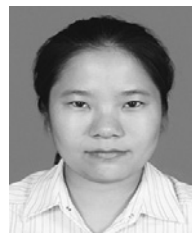




第4回日本生理学会循環生理学優秀論文賞

「第4回日本生理学会循環生理学優秀論文賞を受賞して」



Department of pathophysiology, College of Basic
Medical Sciences, China Medical University

廬 曉梅 (Xiao-Mei Lu)

I am very appreciated to receive the fourth award of the excellent paper in cardiovascular physiology of the Physiological Society of Japan.

In 2004, I started my research career in department of pathophysiology in China Medical University, mainly focused on the effect of hyperbaric oxygenation and Chinese herb *erigeron breviscapus* on the cerebral ischemia reperfusion injury. I investigated the cortex blood flow, cytokines, free radicals and antioxidase in brain tissue upon cerebral ischemia reperfusion in mice, and examined the permeability of blood brain barrier and the change of NO and NO synthase. I also investigated the deleterious effects of CO in brain cells by using a flow cytometry method to measure the cell apoptosis. Then, I moved to focus my research on the ischemic myocardial disease and stem cell transplantation. I established the murine myocardial infarction model by using coronary artery ligation and then examined the changes of cardiac function, pathology and molecular biology. At the same time, I cultured cardiomyocytes derived from murine ES cells and human placenta stem cells and performed cell

transplantation. From the beginning of 2007, I worked in Department of Pharmacology in Faculty of Medicine in Kagawa University as a foreign researcher, supervised by doctor Zhang Guo-Xing, who now is working in the department of physiology II, Nara Medical University. The awarded paper revealed that the role of neuronal nitric oxide synthase (nNOS) in cardiac ischemia reperfusion and ischemia preconditioning. I found that nNOS played a dual role during cardiac ischemia reperfusion and ischemia preconditioning; nNOS exacerbated contributed to ischemia preconditioning-induced protection through inhibition of oxidative/nitrative stress. Of course, I will keep on my research career in the future.

Finally, I will express my thanks to professor Takaki in the department of physiology II, Nara Medical University, who carefully revised my paper.

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