

The major goal of my laboratory is to explore the roles and molecular mechanisms of oxidants and antioxidants in health promotion, disease prevention and therapeutic application, especially in the cardiovascular system, nephrology and urology and gastrointestinal system. We now focus on the deep ocean water bioactive molecules on thrombosis, ischemia/reperfusion injury, diabetes, skin diseases and hyperlipidemia.

Techniques used in study

Cell culture (primary cell, adipose mesenchymal stem cell)
Ischemia/reperfusion in kidney, bladder, liver and heart of rat model

Reactive oxygen species measurement in vitro and in vivo
Immunohistochemistry and western blot analysis
MicroRNA and target gene interaction technique
Human clinical trials

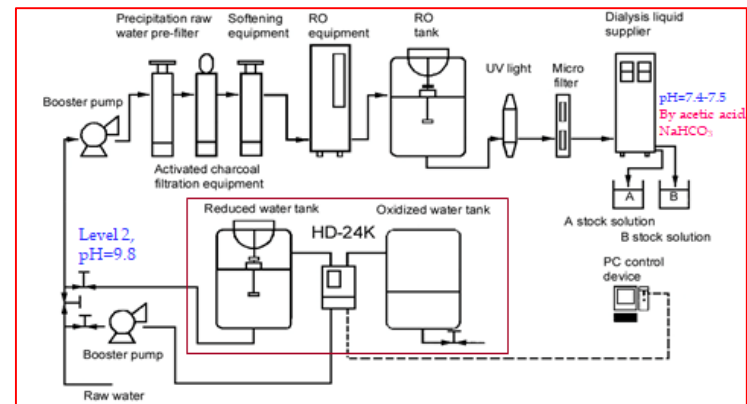
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Background:

PhD in Physiology, National Taiwan University, College of Medicine, Taiwan

Funding:

Ministry of Science and Technology
National Taiwan Normal University



A setup (HD-24K) for production of rich H₂ dialysate to the extracorporeal system

天數	1	2	3	4	5	天數	1	2	3	4	5
組別	1	2	3	4	5	組別	1	2	3	4	5
Control						Control					
Vehicle						Vehicle					
Pacnes						Pacnes					
Pacnes+DG+DSW						Pacnes+DG+DSW					
Pacnes+DG						Pacnes+DG					
Pacnes+CLN						Pacnes+CLN					

DOW-DOM active component inhibits *Cutibacterium acnes* (P. acnes) induced skin inflammation.

Publications

- Chien CY, Wen TJ, Cheng YH, Tsai YT, Chiang CY, **Chien CT*** (2020, Jul). Diabetes upregulates oxidative stress and downregulates cardiac protection to exacerbate myocardial ischemia/reperfusion injury in rats. *Antioxidants (Basel)*. 9(8):679.
- Chen YH, Chiang CY, Chang TC, **Chien CT*** (2020, Sep). Multiple progressive Thermoprotection improves cardiac ischemia/reperfusion-induced left ventricular contractile dysfunction and structural abnormality in rats. *Transplantation*. 104(9):1869-1878.

