


2007 國科會德國國際合作人員交流 PPP 計畫

2007 Project Based Personnel Exchange Programme

何應瑞博士訪問德國合作單位

Dr. Ho visiting Germany

From 30th of Jun. to 11th of Jul. 2007

| | |
|--|--|
| <p>Dr. Ho's group, visited Prof. Cornelius R Pawlak, Department of Psychopharmacology, Central Institute of Mental Health, Mannheim</p> | <p>Visited behaviour testing room</p> |
|  |  |
| <p>Visited behaviour test room</p> | <p>Visited behaviour test room</p> |
|  |  |
| <p>Visited Prof. Rainer KW Schwarting, Department of Experimental and Physiological Psychology, Philipps-University of Marburg</p> | <p>Personnel interaction in Department of Psychopharmacology, Central Institute of Mental Health, Mannheim</p> |



It is the second year of Project Based Personnel Exchange Programme. Dr. **Ying-Jui Ho**'s group from Taiwan visited Prof. **Cornelius R Pawlak**'s Lab in **Mannheim** and **Marburg**, from 30th of Jun. to 11th of Jul., including the other PPP member, **An-Li Wang**.

In this first meeting, some experimental results were discussed, including the primary data and the further advanced experiment. Additionally, the visitors were shown around different laboratories in the Central Institute of Mental Health and thus learned the experimental paradigms used in the German side. The visits provided information about sophisticated methods of behavioural analyses in rodents, the generation of conditional mice and rats, the systematic training of observational methods and the interpretation of rodent behaviours. Other involvement included scientific discussion and practical problem solving within a project concerning the methodological problems to measure anxiety-related behaviour with the microdialysis.

Dr. Ho's group also visited and interacted with the laboratory of Prof. Dr. Rainer K.W. Schwarting, in Marburg where the Taiwanese side was initiated. Previously, both

Dr. Ho and Dr. Pawlak had worked in this laboratory. This visit was essential since the PhD student **Britta Karrenbauer**, the other PPP member, was preparing for her visit to Taiwan. The other students of Dr. Pawlak and students from the joint collaboration met the Taiwanese group in a general meeting.

德國瑪堡大學博士候選人訪問何博士的研究室

Britta Karrenbauer visiting Taiwan

From 9th of Nov. to 21th of Nov. 2007



In November, the PhD student **Britta Karrenbauer** visited the laboratory of Dr. **Ying-Jui Ho** for 12 days. She was involved in various laboratory activities at the Chung Shan Medical University, Taichung City. The most important part was to get an introduction to the theoretical background and practical application of the Western bolt, enzyme-linked immunosorbent assay (ELISA) and immunohistochemistry (IHC) technique under the close supervision of **An-Li Wang**, Yu-Han Wu, and Chuen-Hui Fan. These techniques are essential for the ongoing projects between both partners. She visited the Instrument and Animal Centre of the Chung Shan Medical University. Several scientific interactions were arranged with the Taiwanese project leader Dr. Ho, for example, met Prof. M.C. Ho (School of Psychology, Chung Shan Medical University), Prof. L.S. Hsu (Institute of Biochemistry and Biotechnology, Chung Shan Medical

University). Miss. Britta Karrenbauer also thoroughly discussed with undergraduate and graduate students issues such as statistical fallacies, behavioural testing procedures used in the German laboratories, the higher education system of Germany and Bulgaria in comparison to Taiwan. In addition, apart from the scientific part, both groups engaged in leisure activities and travelling in Taichung City, Taipei, and other locations, which intensified the cooperation.

國際交流之成效

Achievement of this 2-year PPP Project

已發表論文 One paper has been published

Wu SL, LS Hsu, WT Tu, WF Wang, YT Huang, **CR Pawlak***, **YJ Ho***. Effects of D-cycloserine on the behavior and ERK activity in the amygdala: Role of individual anxiety levels. *Behav Brain Res* (2007, in press) (SCI) 【 NSC 95-2320-B-040-009; CCH grant 93118; PPP 0940042882 】

投稿中之論文 One paper has been submitted

Artur Bauhofer, Andreas Schmitt, Michael Köster, Rainer K.W. Schwarting, **Ying-Jui Ho**, **Cornelius R. Pawlak**. Individual behavioral differences in recovery from abdominal sepsis in rats. (submitted, *Brain Behav Immun.* 2007.10.29)

撰寫中之論文 Two papers are preparing for submission

Yen-Ti Lee, Wen-Fu Wang, Shey-Lin Wu, **Cornelius R Pawlak**, **Ying-Jui Ho**. Effects of physical and psychological stressors on interleukin-2 in the brain

Cornelius R. Pawlak, **Ying-Jui Ho**, Rainer KW Schwarting. Animal models of individual behaviour for novelty-seeking and anxiety. (in preparation).