

ACKNOWLEDGEMENTS

After more than three years' struggle, this thesis is eventually coming-out. In fact, its completion is inseparable from many mentors and friends who cast expert proposals on it. Here, I wish to express my sincere gratefulness to them.

First of all, this thesis was done under direct supervision of Prof. Dr. J. Bernd Helms. In fact, he is not only my tutor but rather a conducive friend of mine. His all-round helps during my training in Heidelberg are actually beyond any euphonic words. Just as Chinese saying goes "Not merely expressing lingual gratitude to great favors". What I can do here is just to send this saying to him.

I wish to favorably appreciate Prof. Dr. Felix T. Wieland for providing me the cherishable opportunity to conduct this thesis at his lab. Besides, he spent much time in reading and correction of this thesis.

This thesis was continually under intense discussions with GICcers: Dr. Dora Kaloyanova, Dr. Ernstpeter Stüven, Leonardo Serrano and former GICcer Dr. Ioannis Gkantiragas. I obtained valuable advice and, most importantly, friendships from them. Here I sent them my faithful gratitude.

I wish to thank Barbara Schröter and all BZH secretaries for facilitating my training here. I am beholden to all members of Prof. Wieland's group and Biochemie-Zentrum Heidelberg and sorry for not listing their names here.

I wish to thank Prof. Dr. Wilhelm Just for his help to manipulate confocal microscope. Many thanks go to Julien Bethune and Hatim Jawhari for their helps and discussions in expressing GREG, and Gabi Weiß for her kindly aids in cell cultures. I am sincerely grateful to Dr. Gisou van der Goot for her kindly help to conduct aerolysin overlay assay. I am indebted to Dr. Francis Barr, Dr. Martin Lowe and Dr. Selvia Canevari for their generous donation of antibodies.

Further, I wish to thank Wei Yao for her endless support and understanding in both science and daily life in the last two years during my doctoral training in Heidelberg.