Exploring anti-fibrotic drugs
Luangmonkong, Theerut

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To achieve my dream, 30th September 2013 was the date that I flew away from Thailand to explore new experiences in this man-made country, the Netherlands. Since the first step facing numerous unfamiliar things, I immediately realized that my mission was not easy to succeed. Also, it simply meant that I had to work very hard. Fortunately, I was not leaved to struggle with the difficult task alone. During my journey, I have been received unconditional assistance, excellent suggestions and useful advice from people around me.

Peter, my dear supervisor, you are definitely the first and most important person that contributed to this success. On the first day, you picked me up from Schiphol, told many stories in your car (which I barely understood at the time) and helped me carrying super heavy luggage to the third floor attic. Those things already took me first impression. Moreover, wherever and whenever, you continuously support me with everything. It would have been impossible to finish this thesis without your unending support. You are a desired boss who people want to work for and with, and definitely an ideal father for your sons. Peter, words cannot sufficiently express my deep gratitude. I truly wish you, Judith, Sem and Mas all the best.

One story Peter told me in his car heading to Groningen was about Radit, an Indonesian guy who started the PhD one month before me. Radit, although you started one month earlier, you became my mentor instructing how to live, to work, to remember our colleague’s names and also to jump correctly in Berlin. I would like to specially thank you for taking my office mate to be your wife. Nia, I’m sorry for defining you as a boring person because of your consistent non-sense attempts to thank and apologize, as well as for your pleasant perfume that I did not enjoy. I’m glad that you and Radit are spending the rest of your life together as the perfect match. Thanks both of you very much for our superb friendship.

Another story in Peter’s car was about BT, his first Asian PhD student who was a brand-new father. Although Lucca was very young at that time, he is a big brother now. BT, this proved how successful you got. Thanks a lot for all of your suggestions.

The last story Peter mentioned in his car was about Tobias, his first MD-PhD student. Tobias, I learned a lot how to live happily in the Netherlands from our conversation. Honestly, I would never go to any classical concerts if you were not a guy playing music. Thank you for every suggestion you gave. Later, there were two new Dutch members started working as the MD-PhD. Isabel, if Tobias was a representative Dutch man, you would represent the women side. I’m impressed how enthusiastic you are. Thank you so much for sharing your thoughts and determination, also for guiding the process of this thesis. Jasper, although we did not work together much, I know how nice and helpful you are. Soon, all of you will become an excellent PhD doctor. I wish you a lot of success on your career path.
Although no one else was mentioned in Peter’s car, he subsequently showed his outstanding for acquiring new members to work in our group, and Rick was the first guy working in a Post-Doctoral position. Rick, all of my work is full with ideas and assistance you gave. I must give you a very big credit on your excellence in drafting of this thesis. Thank you very much. The next Post-Doctoral position in our group was Miriam. Surprisingly, Miriam, I got your help already before you were a member of our group. It is much appreciated. Rick and Miriam, I wish you and your family all the best.

Again, Peter later proved how great he is by acquiring three new members in three consecutive months. Emma, I first encountered you at the bowling place, and you impressed me with your active personality. We did not only have a good time in Groningen. I was so glad to be your local guide in Bangkok. Emilia, we first met on your interview date, but I did not even catch your name and shake hands with you because I was busy in the hood. Only one thing I remembered was your lovely smile. Su, although you were the last, but we shared various things together: office, livers, publications, food, traveling, war and so on. Actually, I should dedicate a page of this thesis to describe those things you contributed. Thank you three times, like Nia always told us, would never be enough for this friendship. Also thanks for kindly being my paranymph. I wish you and Naqin all the best. Additionally, I would like to thank Gerian. Although you started the last month before I left, you showed me how good you are. Not that long after the success of Emma, Emilia and Su, it will be your turn.

Even though Peter did not mention, I realized myself that working in the lab would be impossible without our excellent technician. Dorenda, it was uncountable how many times I asked you to order stuff, to fix instruments, to handle with problems, to print this thesis and finally to be my paranymph. Deeply thank you for everything. I wish you, Teun, Nila and Loïs all the best.

As a member of Department of Pharmaceutical Technology and Biopharmacy, I had an opportunity to share numerous excellent moments with many generations of PhD’s. Senthil, Wouter, Anne, Niels, Floris, Marcel, Milica and Maarten, I would like to congratulate on your success again. Thank you all for the suggestions and knowledge. I wish you success on your career path. Special thanks to Naomi, not only your assistances in the lab, but also occasionally being my honor Google translator. Philip, Jasmine, Mitchel, Imco, Max and Annemarie, your graduation is not so far. I’m looking forward to celebrating your success. In addition, there were two great students I had a chance to supervise. Thanks Eric and Jana for your contributions. From the determinations you showed, the success is definitely coming soon. I would like to thank all of the students and visitors that I cannot mention all.

In the department, Erik is our leader who always gives friendship and experience to all members. Erik, our achievement were largely contributed by your supervision. Thank you very much and wish you and your family all the best. Dear Herman, my opportunity to be a member of this department was opened because of you. Thank you so much. I would never have reached this point without your connections. Again, it’s not easy to express my thankfulness to everyone who shared invaluable moments in the department. Sonja, Anko, Wouter, Marinella, Jan, Paul, Caroline, Doetie, Lida and Anne De Boer, direct and indirect assistance, greetings, short conversations, cakes and smile from all of you were more special than you may expect. Deeply thanks to everyone, and I wish you all the best.
Besides our department, I had an opportunity to share experimental livers with many liver people. Suresh and Victoria, you were the liver guys who always needed many hundred slices for each experiment. Thanks both of you very much for your technique, assistance and suggestions. Suresh, it was fun when you tried to imitate my greeting behavior because you did it very well. Victoria, I’m nothing close to an artist, but at least I know that your drawings (in Facebook) are fantastic. Marjolijn and Marina, thank you very much for your kindness and contributions in the lab. I cannot imagine how everything would be without your management. Also thanks to Ming, Xiayou, Sylvia, Natalia and Roberta for the good experience in the slicing lab.

A lot of my work was performed in Department of Pharmacokinetics Toxicology and Targeting. Many times I needed help, every time I received kind suggestions to deal with the problem. I would like to thank Prof. G.M.M. Groothuis for giving me excellent comments on my works. I would like to thank Leonie for very useful suggestions on interpreting my histological staining. Big thanks to Catharina and Eduard for teaching me many techniques. Also thanks Jan for your smile even when you were busy. Regarding smiling, I immediately thought about Fransien. Thanks so much for your kindness and assistance. Thanks to Amirah and Valentina for your friendliness and help. Special thanks to Adhy, not only for helping me with the lab work, but also for the very nice friendship I have with you and Nuri. Also thanks to lovely Zidni, I hope you can remember me when we meet again.

My life in Groningen would have been extremely harder without the assistance from many Thai people. Deeply thanks to P’Kong and P’Or for all of your suggestions, accommodation and the first meal in the Netherlands. Regarding food, it was excellent to meet and eat in Thai style with P’Jane and P’Micky. Thanks a lot for sharing those moments together. Thanks to P’May, the only Thai PhD working in UMCG for sharing experience during lunch time, and also thanks to all of your lovely family: P’Aor, Dookon and Dungjai. Thanks to P’Kliaw for the perfect room when I had nowhere to live. Big thanks to P’Pry for everything. Everyone is looking forward to celebrating your success. Pick, thank you a lot for suggestions and good luck on your career path. Additionally, thanks to all Thai people that I did not list here.

Most of the work in my thesis was performed using animal and human livers. I would like to deeply thank all the animals for their sacrifice. Without their valuable life for research, I don’t know if human can inhabit the world healthily. Greatly thanks to all of the liver donors. Thanks a lot to every staff member in operation center and the Department of Hepato-Pancreato-Biliary Surgery and Liver Transplantation, University Medical Center Groningen, particularly Prof. R.J. Porte and Dr. K.P. de Jong, for support and collaboration. I would like to thank Prof. I.J. de Jong from the Department of Urology, University Medical Center Groningen, for valuable collaboration. The collaboration was not restricted to Groningen, kindly thanks to Prof. D. Schuppan from the University of Mainz for intellectual comments and editing my work. Also, deeply thanks to S. Karkampouna from Leiden University Medical Center for Western blotting technique.

I would like to sincerely thank the assessment committee: Prof. R.A. Bank, Prof. K.N. Faber, Prof. M. Kruithof-de Julio and Prof. K. Sripa, for your critical reading, kind suggestions and evaluation on my thesis.
As a member of Faculty of Pharmacy, Mahidol University, I deeply thank Dr. Chuthamanee, my supervisor, for believing in me that I can be a part of our faculty. I would like to thank Dr. Usa, Dr. Jiraphun and Dr. Naeti for implementing the scholarship. I don’t know where I would be without your assistance. As a part of the Department of Pharmacology, I would like to thank everyone for every suggestion. Special thanks to Dr. Srichan for your kindness and assistance. Also big thanks to P’Saisamom for continuously supporting everything I need in Thailand. Thanks again to Dr. Kittisak for distantly greeting and thoroughly reading my thesis. Actually, it is impossible to mention everyone here, but I really appreciate everything I kindly received all along my PhD path.

I also would like to express my gratitude to everyone who has been a part of my education since I was in primary school. Without the valuable knowledge I gradually accumulated, my achievement would have never been possible.

New friends can be easily met elsewhere, but a good friend is hard to find, hard to lose and impossible to forget. Thanks to all of greetings via any routes, particularly social network. Actually, I cannot imagine how I could live alone in Groningen without internet connection. Special thanks to Gift for your encouragements and everyday messages.

Finally, back to 1982, I was very lucky to be a part of my lovely family. We don’t need to express how we love and care about each other, but we always feel using our heart. Nothing is endless, but we are family forever.

Heartily thanks - Hartelijk bedankt – ขอบคุณจากใจ
**Curriculum vitae**

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**Education**

- Doctor of Philosophy, Department of Pharmaceutical Technology and Biopharmacy, University of Groningen, the Netherlands
- Master of Science in Pharmacy (Pharmacology), Faculty of Pharmacy, Mahidol University, Bangkok, Thailand
- Bachelor of Science in Pharmacy, Faculty of Pharmacy, Mahidol University, Bangkok, Thailand

**Publications**
