Appendices

Acknowledgement

Curriculum vitae
At the point of finishing this thesis, it is hard to express how truly thankful I am to all the people who surrounded me and supported me, and it is hard for me to say goodbye to all of you. Reflecting on my time spent on this journey, I am very pleased with what I’m taking away from this experience. This has been one of the most challenging times of my life, and I am very fortunate to have met many kind and interesting people whose help and support have made this thesis possible. Limitations of space mean that I cannot include all the names of those who helped and encouraged me in this trajectory, but I will do my best.

First of all, I am very grateful to my supervisor, Prof. Dr. Daniel Wismeijer. Thank you for trusting me and offering me the opportunity to perform this research in ACTA. I especially appreciate your words of comfort and encouragement. Thank you for your perceptive suggestions on my research. You were always so kind and amiable. Your broad knowledge and critical thinking has helped me a lot with my research career.

Another important person I want to thank is my daily supervisor Dr. Gang Wu. My life in Amsterdam would never have begun without you. There are no words to describe how thankful I am for everything that you have done for me during this PhD adventure. I always remember when I first came to ACTA, I knew nothing about research, and it was you that taught me how to be a good researcher. During these years you have meant a lot to me as my daily supervisor, role model, career coach, and my big brother. I have not only learned much about scientific training from you, but also a new way of thinking. Thank you for flying to China for my wedding and your words at my wedding meant a lot to me. I am sincerely honored and thankful for meeting you. You were always so encouraging and supportive on my work. I admire your wisdom, your optimism, and your insight to see the bigger picture in research. I am honored to be one of your students and to have learnt new skills from you. Thank you so much for supporting my PhD application and being such a great supervisor. I am very lucky and honored to be writing my thesis under your guidance. Without your constant feedback and encouragement this PhD work would not have been achievable. I wish that one day I will resemble you as a researcher and a supervisor. Dear Jing Guo, thank you for inviting my parents and I to your home for a BBQ. We talked a lot in the sunshine, it was a lovely afternoon. I sincerely admire your perseverance when you prepared for the examination for a dental license. It was a hard time, but you persisted. Your experience validates the phrase “No pain, No gain”. Congratulations for becoming a dentist. You are my role model.

I would like to express my thanks to Prof. Zhiyuan Gu, my masters supervisor, who enlightened me during my first postgraduate study. You set up my master project and sent me to the ACTA. Thank you so much for your continued support, careful guidance, and endless patience. I would also like to thank Dr. Yuelian Liu, for showing me around the ACTA, you were always so kind and patient.

Next, I would like to thank my friends, colleagues, co-authors, and scholars I met at conferences who provided their friendly reviews and suggestions on my papers, and helped me to master my academic skills and competencies. Dear Yixuan, thank you for teaching me how to use the microscope and inviting me to have dinner when I first arrived; I wish you and Dongdong all the best in the future and wish you good luck with your new job. Dear Fei, thank you for taking such professional pictures and I hope you finish your PhD soon. Dear Dongyun, thank you for teaching me how to prepare for my PhD defense and I hope your new job goes smoothly. Dear Wei, you are the first friend I made when I came to Uilenstede, you seem like my big sister and taught me how to cook. Life in Uilenstede became colorful with you. Dear Ceylin and Nawal, we sat next to each other in the office. I enjoyed all kinds of chat about work, life, culture difference, religion, and of course babies. Dear Jolanda, thank you for teaching me how to use Eliasa machine and preparing the materials these years. I
will miss your jolly laugh. Dear Cor, thank you for repairing laboratory equipment for us, and thanks for your help with any kind of problems I met in the Lab. Dear Marion, thank you for teaching me how to use the microscope, and I enjoyed our talks in the open space. Dear Dirk-Jan, Teun, Ton (Schoenmaker), Bas, Ton (Bronckers) Ineke, Behrouz, Kamran, Leo, and Arie, thank you for all your professional support.

Doing a PhD abroad is a lonely experience; the most precious gain is the friendship from a group of fun girls. Thank you, Yixuan, Fei, Carolyn, Beatriz, Rozita, Angela, and Sara for all those girl talks, gossip, and romantic stories. I will always cherish our friendship. I would like to thank all my PhD colleagues for helping me with all kinds of problems in the laboratory and sharing funny jokes in the coffee room. Thank you, Jianfeng, Xiangyang, Hui, Xingnan, Ying, Naichuan, Lin, Ana, Alejandra, and Hessam for your company along this PhD journey. I would also like to express my gratitude to all my PhD colleagues for helping me with all kinds of problems in the laboratory and sharing funny jokes in the coffee room.

I would like to take this opportunity to thank my PhD reading committee for devoting their time to evaluating my thesis: Prof. Dr. Jenneke Klein-Nulend, Prof. Dr. Enno Veerman, Prof. Dr. Klaas de Groot, Dr. Fang Yang, and Dr. Richard Jaspers. In the meantime, I would like to thank China Scholarship Council (CSC) and Sino-Dutch Bilateral Exchange Scholarship program for the financial support.

My biggest thanks go to my parents. Mom and dad, thank you for your support for my education and your respect for my life choices over the years, even though such support brings you hard times. I feel sorry for the little time I have spent with you. 爸爸妈妈，出国读博是我自私的决定，感谢你们支持我的决定，一如你们在我人生的很多事情上所持的尊重和鼓励的态度，谢谢你们一直以来为我提供良好的生活环境，让我能安心追求自己的梦想。谢谢你们教会我善良、勤劳、宽容和知足，谢谢你们无微不至又不求回报的爱，谢谢你们在荷兰陪伴我完成博士学业，希望你们永远健康快乐，我爱你们。

感谢我的亲戚姐妹朋友们，我不在父母身边的时候是你们代我照顾他们，谢谢你们的支持和帮助。

My parents in law, you are the perfect examples of soul beauty for me, thank you for your support and love. 感谢我的公公婆婆对我们生活的关心和爱护，你们善良乐观积极向上的生活态度激励着我们。祝愿你们健康快乐。

And to my husband, Zhen Lin, that I owe my deepest gratitude, for everything you have done for me in my PhD journey. No words can describe what you mean to me. 感谢我的丈夫林振，认识你是我的幸运，我们的想法总是能不谋而合，这就是命中注定的缘分吧！谢谢你的爱和陪伴，你的鼓励是我在异国拼搏的动力。
# Curriculum Vitae

## Personal information

<table>
<thead>
<tr>
<th>Name</th>
<th>Yi Liu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of birth</td>
<td>Sep. 02. 1987.</td>
</tr>
<tr>
<td>Place of birth</td>
<td>Shandong Province, China</td>
</tr>
<tr>
<td>Degree</td>
<td>M.D., Ph.D candidate</td>
</tr>
<tr>
<td>Institution</td>
<td>Department of Oral Implantology and Prosthetic Dentistry, Academic Centre for Dentistry Amsterdam (ACTA), Universiteit van Amsterdam and Vrije Universiteit Amsterdam, The Netherlands</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:dentistliuyi@163.com">dentistliuyi@163.com</a>; <a href="mailto:liuyizzd@163.com">liuyizzd@163.com</a></td>
</tr>
</tbody>
</table>
Appendices

Publications


2. **Liu Y**, Guo J, Lin Z, Xu G, Wismeijer D, Wu G. Heterodimeric bone morphogenetic protein-2/7 is not superior to homodimeric BMPs in restoring osteoblastogenesis inhibited by all-trans retinoic-acid. (Submitted) **First author**.


**Patents**

2. Su W, Zheng Y, **Liu Y**. A household self-checking photoelectric oral cavity mirrors (ZL2012 2 0414272.2) authorized2013.02.27.
5. Zhang L, **Liu Y**, Chen J. A controlled direction of oral salivary absorption (ZL2014 2 0608632.1) authorized2015.03.11.

**Presentations**