

University of Groningen

Development and application of novel scaffolds in drug discovery

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DOI:
[10.33612/diss.98161351](https://doi.org/10.33612/diss.98161351)

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Document Version
Publisher's PDF, also known as Version of record

Publication date:
2019

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):
Boltjes, A. (2019). *Development and application of novel scaffolds in drug discovery: the MCR approach*. Rijksuniversiteit Groningen. <https://doi.org/10.33612/diss.98161351>

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Appendix

Acknowledgements
List of Publications
About the Author



Acknowledgements

Roughly four years have passed since I started with my own research projects resulting in several publications and ultimately the opportunity to pursue a PhD. Although it was not a typical trajectory I believe the sense of achievement must be comparable and I feel a sincere gratitude towards the many people I've met over the years, either giving inspiration or the support required to get this far and to finish this thesis.

Dear Alex, your vision, dedication and drive have never stopped to amaze me. The trust you have given me over the years and the support to pursue my goals leading to this moment were absolutely invaluable. I am truly thankful for everything you have done for me and showing the pragmatic approach to so many things and of course for being my promotor.

Also an important part of this journey is to be attributed to my second promotor Prof. Frank Dekker. We started working more or less at the same time at the University of Groningen and after the medicinal chemistry group ceased to exist, you adopted me into your group until a new chair of drug design was found. During this period you have guided me through multiple challenging synthesis projects and taught me how even the littlest details matter. Thank you for your dedication during this period, your suggestions, discussions and the help on finalizing my thesis.

I would like to thank the assessment committee: Prof. Gerrit Poelarends, Prof. Adri Minnaard and Prof. Romano Orru for being so kind to invest their time to read and evaluate my thesis.

Special thanks to the crystallization core of the Drug Design group, the first few that defined the methods and main structure, currently followed by the current group members: The first PhD student I was heavily involved in guiding; Ting, thank you for being my roommate and input in the initial synthesis of aminotetrazoles. The Greek duo Dinos and Tryfon, thank you for all your knowledge and fun during activities in- and outside the lab. Edwin for your down to earth view on a lot of things, help as 'sheriff' of the SFC and the not to be underestimated Dutch contribution to the group. Patil your ability to get chemistry projects to work in a matter of days are unmet, your directness towards others is extremely Dutch and your willingness to help and contribute wherever you can, deserves great respect and gratitude.

My collaborators Eberhardt Herdtweck, Katarzyna Kurpiewska, Justyna Kalinowska-Tłuścik and Svitlana Shishkina, thank you for the measurement and refinement of the various single crystal X-ray structures described in this thesis. Kees van de Kolk, I am grateful for your help with MRI measurements, the animal studies and supplying the proof of concept for our MRI contrast agent. I would like to thank Marcel, Annie and Margot for their help in performing both MS and HRMS analysis. Annadka Shrinidhi, thank you for giving insights in anorganic chemistry and from this perspective, your fresh view on performing organic chemistry and your help in the difficult task to determine the stability constant and all the associated calculations that came with it. I would like to thank my students; Rob, Laurie, Leander, George, Harmen, Benno, Iris, Kees and John for taking their part in the synthesis projects.

As the Drug Design group has grown tremendously in the past 8 years and many students, post-docs and visiting scientists came and left, it is easy to forget someone. I will try my best to acknowledge all of you. First of all the current direct colleague's; Angelina, Bidong, Zefeng, Ruixue, Fandi, Maryam, Shabnam, Angel, Jingyao, Marta, Anne-1, Anne-2, Sara, Hylke, Kumchok and Francesco, thank you for all the help in the lab. Roberto, thank you for your assistance with 'Ordnung' in the lab and teaching me the secret recipe for making delicious pasta Bolognese. Li and Markella, thank you for your help in the adenine project and all the nice discussions we've had. Qian, the stereotype of a Chinese person does not apply to you, the way you 'get to the point' and our interactions made a smile to my face every time, thanks! Robin, don't underestimate the part you have played in relieving me from several lab tasks, making my daily job as lab manager easier and allowing me to spend time on research. Also the humor and filling the Dutch void from when Edwin left, was much appreciated. Thank you! Much gratitude goes out to the structural biology subgroup of Drug Design, led by Prof. Matthew Groves and his students; Kai, Marleen, Juliana, Paul, Rick, Fernando, Jan Marten, Atilio, Ran, Chao and Wenjia. Without you guys, understanding of actual biological binding would not have been possible. The PhD students and post-docs that recently left the group shouldn't be forgotten either; Many thanks to Natalia, Eman, Ajay, Chary, Naveen, Bhupendra, Kareem, Yuanze, Al-anod, Alaa, Eswar, Soraya, Niels, Santosh, Daniel, Wei and Silvia.

The interdepartmental scientific interactions were mostly found in the Chemical and Pharmaceutical Biology group. I would like to acknowledge a few of my CFB colleagues; Martijn, Haigen, Linda, Hao, Nick and of course Pieter.

Next I would like to thank my 'other' colleagues, not directly involved in the scientific processes. First and foremost, I would like to express my sincere gratitude to our secretary Jolanda, who is always there for the administrative aid, as well as being our tower of strength within the group. JP, although your position as 'Techniker einz' has my highest regard, I appreciate our conversations regarding our shared interests most, generally not related to work. Barbara, the list of things you've helped me with is endless. Thank you so much for everything. Thanks to the guys from the instrument workshop, indirectly involved in taking care of the labs equipment and manufacturing all sorts of handy tools; Rick, Robert, Wolter, Frans, Roland, Erik, Hans, Jeroen and Evert.

Special thanks to Anne Lexmond for the important role you have played of setting the official part of my PhD trajectory in motion. Without your intervention, the short period between admittance to the graduate school GSSE and ultimately the defense of this thesis, would not have been possible.

My best friend Jelle, the way you approached your PhD and the years after, inspired me to push through and finish my thesis. Thank you for your involvement in the smaller details of my PhD, the necessary moments of 'epibreren' and for being my paranymp.

Jey, the first of the dark side, thank you for being my second paranymp. Over the years we started to appreciate each other's fields more and more and nowadays are good friends through more than work only and both appreciate a proper 'bakkie' at any given time.

Bij deze wil ik ook graag mijn vrienden bedanken, met name Sven, Arjan, Juriaan, Roy, Ronnie en Thanas, voor de broodnodige afleiding en ontspanning buiten werk om.

Mijn familie, Pap, Mam, bedankt voor jullie steun tijdens elke fase van mijn opleiding en alle keuzes die onderweg gemaakt zijn. Het is dan eindelijk toch zover gekomen en zover gekomen ben ik. Daniëlle, mijn zus, ik vind het prachtig hoe je mijn uitleg over de chemie altijd wist te counteren met je kennis over de tandheelkunde. Het heeft me geholpen om te leren denken vanuit een breder perspectief dan uitsluitend mijn eigen vakgebied.

Roos, Marit en Amber, mijn drie prachtige dochters. Ik wil jullie graag bedanken voor jullie enthousiasme voor alles wat te maken heeft met natuur en techniek. Het heeft me de drive gegeven om met hetzelfde enthousiasme te blijven ontdekken en nieuwe dingen te leren. Josina, mijn lieve vrouw, bedankt voor dat je dit avontuur samen met mij bent aangegaan en me gesteund hebt op moeilijke momenten. Zonder jouw liefde, jouw zorgzame karakter, support en de geschonken vrijheid, was promoveren nog een veel moeilijker opgave geweest. Om de beurt maken we een stap voorwaarts, dit was mijn stap, nu mag jij weer.

André
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List of Publications

- **A. Boltjes**, A. Dömling, The Groebke-Blackburn-Bienaymé Reaction. *Eur. J. Org. Chem.* **2019**, (In Press, 10.1002/ejoc.201901124).
- **A. Boltjes**, H. X. Liu, H. P. Liu, A. Dömling, Ugi Multicomponent Reaction. *Org. Synth.* **2017**, *94*, 54-56.
- **A. Boltjes**, A. Shrinidhi, K. van de Kolk, E. Herdtweck, A. Dömling, Gd-TEMDO: Design, Synthesis, and MRI Application. *Chem-Eur J.* **2016**, *22*, 7352-7356.
- **A. Boltjes**, G. P. Liao, T. Zhao, E. Herdtweck, A. Dömling, Ugi 4-CR synthesis of gamma- and delta-lactams providing new access to diverse enzyme interactions, a PDB analysis. *Med. Chem. Comm.* **2014**, *5*, 949-952.
- **A. Boltjes**, Y. J. Huang, R. van de Velde, L. Rijke, S. Wolf, J. Gaugler, K. Lesniak, K. Guzik, T. A. Holak, A. Dömling, Fragment-Based Library Generation for the Discovery of a Peptidomimetic p53-Mdm4 Inhibitor. *Acs Comb. Sci.* **2014**, *16*, 393-396.
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- M. Ghizzoni, **A. Boltjes**, C. de Graaf, H. J. Haisma, F. J. Dekker, Improved inhibition of the histone acetyltransferase PCAF by an anacardic acid derivative. *Bioorgan. Med. Chem.* **2010**, *18*, 5826-5834.

Conferences

- **A. Boltjes**, A. Dömling. *The Groebke-Blackburn-Bienaymé reaction: Two decades later*. Poster presentation: 7th International MCR 2018 Conference; 2018 Aug 26-31, Düsseldorf, Germany
- **A. Boltjes**, H. X. Liu, H. P. Liu, A. Dömling. *New approaches to employ the Ugi reaction, demonstrated through the synthesis of praziquantel*. Poster session presented: NWO CHAINS Conference; 2017 Dec 5-7, Veldhoven, The Netherlands
- **A. Boltjes**, A. Shrinidhi, K. van de Kolk, E. Herdtweck, A. Dömling. *The next generation of tetrazole based MRI Contrast Agents*. Orally presented at the MCB lecture series. 2014 Nov 27, Groningen, The Netherlands
- **A. Boltjes**, K. van de Kolk, E. Herdtweck, A. Dömling. *Development of a novel tetrazole based MRI contrast agent via the Ugi tetrazole reaction*. Orally presented at the annual congress; Figon Dutch Medicine Days; 2014 Oct 4-6; Ede, The Netherlands
- **A. Boltjes**, K. van de Kolk, E. Herdtweck, A. Dömling. *Gadolinium(III) based chelators by multi component reactions: a new class of potential MRI contrast agents*. Poster session presented: MCB2014 Conference; 2014 Aug 25-26, Groningen, The Netherlands
- **A. Boltjes**, G. P. Liao, T. Zhao, E. Herdtweck, A. Dömling. *Ugi 4-CR synthesis of gamma and delta lactams providing new acces to diverse enzyme interactions, a PDB analysis*. Poster session presented: MCB2014 Conference; 2014 Aug 25-26, Groningen, The Netherlands

About the Author

André Boltjes was born on the 10th of April 1984 in Wieringerwerf, The Netherlands. In 2007 he obtained his Bachelor degree in Organic and Analytical Chemistry at the Hanze University of Applied Sciences. For his graduation he worked on the development of new materials (hotmelts, coatings, foams, micro-encapsulation, etc.) in the field of polymer chemistry. After graduating, he started working at the University of Groningen as a technician for the Medicinal Chemistry group within the Groningen Research Institute of Pharmacy. In the initial years the focus was on the development of CNS drugs and prodrugs against conditions such as Parkinsons disease. Later, together with Prof. Frank Dekker, this focus moved to epigenetics and the synthesis of HAT and HDAC inhibitors. Finally, with the appointment of Prof. Alexander Dömling in 2011, his position developed into senior research technician/laboratory manager and was introduced to MCR chemistry. In 2014, under the supervision of Prof. Alexander Dömling, he proceeded with the basis of his doctorate work with attention to *Development and application of novel scaffolds in drug discovery*. The research resulted in multiple publications in peer reviewed journals which are described in this thesis.