

## University of Groningen

### The origin and amplification of chirality

Schoonen, Anne Korneel

**IMPORTANT NOTE: You are advised to consult the publisher's version (publisher's PDF) if you wish to cite from it. Please check the document version below.**

*Document Version*

Publisher's PDF, also known as Version of record

*Publication date:*

2016

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

*Citation for published version (APA):*

Schoonen, A. K. (2016). *The origin and amplification of chirality*. University of Groningen.

**Copyright**

Other than for strictly personal use, it is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), unless the work is under an open content license (like Creative Commons).

The publication may also be distributed here under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license. More information can be found on the University of Groningen website: <https://www.rug.nl/library/open-access/self-archiving-pure/taverne-amendment>.

**Take-down policy**

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

*Downloaded from the University of Groningen/UMCG research database (Pure): <http://www.rug.nl/research/portal>. For technical reasons the number of authors shown on this cover page is limited to 10 maximum.*

Stellingen:

- 1) There are many things important in life, the successfulness of your PhD is not one of them
- 2) Melting point determination is quick and simple and does not only give information about the purity and structure of your compound but it can in many cases, also give insight into interesting physical properties
- 3) An open group discussion with respect for all participants regardless of background and understanding is the best way to elevate the knowledge and skill of everybody present
- 4) If during the writing process of a PhD thesis one finds that experiments could and should have been done different, it proves that one has learned not that one was ignorant
- 5) It should not be allowed to report the synthesis of new molecules without giving at least a  $^1\text{H}$ -NMR to confirm that the synthesis was successful and the structure correct.

Chen, J.J., et al., *3-Oxo-2-piperazinyl acetamides as potent bradykinin B1 receptor antagonists for the treatment of pain and inflammation*. *Bioorganic & Medicinal Chemistry Letters*, 2011. **21**(11): p. 3384-3389.

Deng, C.-H., et al., *Synthesis of N-Phosphoamino Acids with Long Dialkoxy Chains*. *Journal of Chemical Research, Synopses*, 1999(10): p. 589-589.

- 6) Robert Shapiro compares scientists that investigate prebiotically viable reactions performed in the lab with a golfer that hits a golf ball in the hole and subsequently argues that the ball could have gone in to the hole without him. Whilst fully agreeing with the author that a controlled lab experiment will never truly mimic the prebiotic earth, the author seems to forget that to do research one has to start somewhere.

Shapiro, R., *A simpler origin of life*. *Scientific American*, 2007. **296**: p. 46-53.

- 7) Addy Pross's concept of dynamic kinetic stability is a great step forward since it is one theory that covers the metabolism first and the RNA world hypotheses making the discussion on this topic redundant

Pross, A., et al., *Extending the concept of kinetic stability: toward a paradigm for life*. *Journal of Physical Organic Chemistry*, 2004. **17**: p. 312-316

- 8) The current slow process of applying for a defense date, leads to poor defenses and changes the event from a wonderful happening to something that still needs to be done.