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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2015

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

Citation for published version (APA):

Masini, T. (2015). *The enzyme DXS as an anti-infective target: Exploiting multiple hit-identification strategies*. University of Groningen.

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Stellingen

Behorende bij het proefschrift

The enzyme DXS as an anti-infective target *Exploiting multiple hit-identification strategies*

van Tiziana Masini

1. Molecular dynamics simulations should become an essential part of structure-based design projects, even in the presence of abundant structural information (Palermo, G.; De Vivo, M. *Encyclopedia of Nanotechnology* **2015**, Springer, ISBN: 978-94-007-6178-0, pp. 1–15).
2. It is contradictory to report the sentences “Two major problems greatly reduce the therapeutic value of most of the antimalarial drugs listed in Table 1: drug toxicity and side effects (...)” and “Certainly, the mechanism of action is useful knowledge for further development of the compound but it is not mandatory for a successful antiparasitic drug (...)” within the same manuscript. (Schlitzer, M.; Ortmann, R. *ChemMedChem* **2010**, *5*, 1837–1840).
3. Investing more in the field of “Drug repositioning” (*i.e.*, finding new uses for existing drugs outside the scope of the original medical indication) would definitely speed up drug development.
4. Discussion of both positive and negative results reported as “unpublished results” should be forbidden by any scientific journal (Agyei-Owusu, K.; Leeper, F. J. *FEBS J.* **2009**, *276*, 2905–2916).
5. When reading or listening to the sentence: “Animal experiments will never be completely replaced in pharmaceutical development” pronounced or written by a member of the scientific community, it is unacceptable that the word “never” is being pronounced by a scientist.
6. As long as there will be negative discrimination against women in science (and other fields), actions aimed at balancing the current situation should be considered as a way to equilibrate things rather than as a positive discrimination.
7. The use of Latin words and expressions in science should be encouraged as long as it is spelled out grammatically correctly (*e.g.*, the plural of spectrum is spectra) and pronounced correctly (the pronunciation of “*Trypanosoma brucei*” or “*E. coli*” is rather illustrative).
8. The danger of playing high-volume music in a chemical laboratory is surprisingly overlooked.