

University of Groningen

## Inhibition and detection of 15-lipoxygenase-1

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# Stellingen

Behorende bij het proefschrift

## Inhibition and detection of 15-lipoxygenase-1

Nikolaos Eleftheriadis

1. The enzyme 15-lipoxygenase-1 plays a dual role in diseases with an inflammatory component.
2. Activity-based protein profiling (ABPP) is a powerful method for the analysis of enzyme function and for determination of the selectivity of enzyme inhibitors in complex disease models. (Chapter 6)
3. The enzyme 15-lipoxygenase-1 can convert arachidonic acid and linoleic acid into inflammatory mediators which play a key role in asthma.
4. Despite initial speculations that inflammation plays a minor role in central nervous system (CNS) disorders, most recent evidence shows the opposite. (Chapter 5)
5. The indole 15-lipoxygenase-1 inhibitor **N247** is one of the most potent inhibitors that have ever been designed for this enzyme. (Chapter 4)
6. The development of the activity-based probe **N144** illustrates the power of biomimetic approaches.
7. "Focus" became from a nightmare to my favorite word.
8. In a PhD project, you should be equally patient and impatient.
9. The plate reader is a powerful instrument that can give you happiness or sadness in few seconds.
10. The Netherlands is a country that makes you appreciate the sun more than anything else.