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STELLINGEN
Behorende bij het proefschrift

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Hannah Louise Zwart

1. Lantibiotics have the potential to become antibiotics.
2. The lacticin 3147 transporter, LtnT, requires an active peptidase C39 domain for transport of its cognate substrates. (Chapter 2)
3. When expressed in the host strain *Lactococcus lactis*, the modification enzymes and transporter LtnM1T and LtnM2T can produce active LtnA1 and LtnA2, respectively. (Chapter 3)
4. More insight is needed in the mechanism that LanM enzymes and LanT transporters use in substrate recognition before these enzymes can be used to their full potential in a generic class II lantibiotic/lanthipeptide production system. (Chapter 4 and 5)
5. Heterologous expression of biosynthetic modification enzymes with their cognate substrate in *E. coli* is a promising method for the production of new lanthipeptides. (Chapter 6)
6. It might be confusing that the two-component lantibiotic lacticin 3147 is a class II lantibiotic and the structure of its A1 peptide indeed resembles that of class II lantibiotics while the structure of its A2 peptide resembles more that of class I lantibiotics.
7. Het benutten van andere producten dan vlees voor eiwitconsumptie spaart het milieu en is ook gezonder.
8. Sin en wille kin folle tille