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## Identification, characterisation and expression of early biosynthetic genes from *Artemisia annua*

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## **Publication list**

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Publication list

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### Peer reviewed publications

1. **Rydén A-M**, Ruyter-Spira C, Quax W. J., Osada H, Muranaka T, Kayser O, Bouwmeester H. J., Molecular cloning of dihydroartemisinic aldehyde reductase and its implication in artemisinin biosynthesis. In press. *Planta Medica*, 2010.
2. **Rydén A-M**, Ruyter-Spira C, Litjens R, Takahashi S, Quax W. J., Osada H, Bouwmeester H. J., Kayser O, Molecular cloning and characterization of a broad substrate terpenoid oxidoreductase from *Artemisia annua*. In press. *Plant and Cell Physiology*, 2010.
3. **Rydén A-M**, Ruyter-Spira C, Van den End F, Verstappen F, Quax W. J., Bouwmeester H. J., Kayser O, Oxygen dependent biosynthesis of artemisinin precursors in yeast. Submitted, *Journal of biotechnology*, 2010.

### Reviews

4. Muntendam, R, Melillo, E, **Rydén A-M**, Kayser O, Perspectives and Limits of engineering the isoprene metabolism in heterologous hosts. In press, *Applied microbiology and biotechnology*, 2009; vol. 84, No. 6, p. 1003-1019.
5. **Rydén A-M**, Kayser, O, Sesquiterpene trioxane lactones – chemistry and biological activities. *Topics in heterocyclic chemistry*, Springer, Vol. 9, pp. 1-28, 2007.

**Dissertation**

6. **Rydén A-M** Role of peroxygenase in artemisinin production. *Doctoral thesis*, University of Groningen, 2010.

**Poster presentations**

- 2009 Chemotype shifting in yeast: Minimizing heterologous genetic load and maximizing heterologous product yield. TERPNET, Tokyo, Japan.
- 2009 Cloning and characterization of an *Artemisia annua* terpenoid reductase implicated in the biosynthetic pathway of the antimalarial drug artemisinin. TERPNET, Tokyo, Japan.
- 2007 Cloning and functional elucidation of cytochrome P450s from *Artemisia annua*. TERPNET, Strasbourg, France.
- 2006 Biosynthesis of artemisinin in *Artemisia annua*. GUIDE, Groningen, Holland.