



**Universiteit  
Leiden**  
The Netherlands

## **Antimicrobial compounds as side products from the agricultural processing industry**

Sumthong, P.

### **Citation**

Sumthong, P. (2007, June 19). *Antimicrobial compounds as side products from the agricultural processing industry*. Division of Pharmacognosy, Section of Metabolomics, Institute of Biology, Faculty of Science, Leiden University. Retrieved from <https://hdl.handle.net/1887/12086>

Version: Corrected Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/12086>

**Note:** To cite this publication please use the final published version (if applicable).

# Antimicrobial compounds as side products from the agricultural processing industry

Antimicrobial compounds as side products from the agricultural processing industry P. Sumthong 2007



Microorganisms resistant to most antibiotics are rapidly spreading. Consequently there is an urgent need for novel antibiotics. Most antibiotics have been developed from microorganisms. Plants represent an interesting source for finding novel antimicrobial compounds. They are well protected against microorganisms, due to the presence of antimicrobial compounds or the induction of phytoalexin biosynthesis after infection. This thesis focus particularly on some abundantly available plant sources, with the idea that plants already in agricultural processing industry might be the source of antimicrobial active compounds which would add extra value to these crops. The research presented in this thesis focused on antifungal activity of such sources, as plants are known to be quite resistant to most fungi. Therefore, specific focus was given to anti-wood rot activity after a general screening of antimicrobial activity.

ISBN 978-90-9021941-7

Pattarawadee Sumthong

## INVITATION



You are cordially invited  
to attend the ceremony for the  
thesis defence in public of

Pattarawadee Sumthong

On Tuesday  
19 June 2007 at 13.45  
in the Lokhorstkerk  
Pieterkerkstraat 1, Leiden

Reception will follow after  
the end of the promotion  
in the Lokhorstkerk

Pattarawadee Sumthong  
Boerhaavelaan 266  
2334 EZ Leiden  
Tel. 071 5274514  
p.sumthong@chem.leidenuniv.nl

Paranimfen:

Roman R. Romero Gonzalez  
Tel. 071 5274455  
r.romero@chem.leidenuniv.nl

Tanawat Chaowasku  
Tel. 071 5273574  
chaowasku@nhn.leidenuniv.nl