



Universiteit
Leiden
The Netherlands

Polyketide synthases in *Cannabis sativa* L

Flores-Sanchez, I.J.

Citation

Flores-Sanchez, I. J. (2008, October 29). *Polyketide synthases in Cannabis sativa L*. Retrieved from <https://hdl.handle.net/1887/13206>

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/1887/13206>

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

Acknowledgments

I thank CONACYT (Mexico) for the partial grant to follow the PhD program at the Pharmacognosy Department in Leiden University. This research thesis could not be ended in the established time by CONACYT. Thus, I thank Antonio Sanchez-Martinez and Lilia Sanchez-Reynoso (1947–2008) for the financial support to finish it.

I express my gratitude to the people who have contributed to the realization of this scientific work. The Dutch summary (samenvatting) was edited by Marianne Verberne. To my friends, in Mexico and Netherland, I would like to thank for their support and friendship.

Agradezco el apoyo incondicional de mi papa Antonio, de mi tia Lilia y de mis hermanos Victor Manuel y Jana. Ustedes tambien han contribuido en este logro.

Curriculum vitae

Isvett Josefina Flores Sanchez was born in Pachuca de Soto, Hidalgo State, Mexico (19-03-71). She is Chemist-Pharmacologist-Biologist graduated in June 1995 from Faculty of Chemistry, Autonomous University of Queretaro, Queretaro, Qro., Mexico. She got professional experience working in the Center of Academic Studies on Environmental Pollution (CEACA, Faculty of Chemistry, Autonomous University of Queretaro; 8 months) and in the pharmaceutical company Fine Chemistry FARMEX (Queretaro, Mexico; 6 months). At the Autonomous University of Hidalgo State, Pachuca de Soto, Hgo, Mexico she specialized in Quality and Productivity Control in October 1995. She followed the MSc program in Biotechnology at Department of Biotechnology and Bio-engineering, Center for Research and Advanced Studies of the National Polytechnic Institute (CINVESTAV-IPN), Mexico City, Mexico. She graduated in November 2001 with the thesis titled "Role of squalene synthase in the biosynthesis of sterols and triterpenes in cultures of *Uncaria tomentosa*". In September 2003, she started as a PhD student at the Department of Pharmacognosy, Section Metabolomics, Institute of Biology, Leiden University. Her research project was focused on the study of polyketide synthases in cannabis plants.

List of publications

Flores-Sanchez I.J., Ortega -Lopez J., Montes-Horcasitas M.C. and Ramos-Valdivia A.C. (2002) Biosynthesis of sterols and triterpenes in cell suspension cultures of *Uncaria tomentosa*. *Plant Cell Physiol* 43: 1502-1509.

Flores-Sanchez I.J. and Verpoorte R. (2008) Secondary metabolism in cannabis. *Phytochem Rev*. DOI 10.1007/s11101-008-9094-4.

Flores-Sanchez I.J. and Verpoorte R. Plant polyketide synthases: A fascinating group of enzymes. In preparation.

Flores-Sanchez I.J. and Verpoorte R. Polyketide synthase activities and biosynthesis of cannabinoids and flavonoids in *Cannabis sativa* L. plants. In preparation.

Flores-Sanchez I.J., Linthorst H.J.M. and Verpoorte R. *In silicio* expression analysis of a *PKS* gene isolated from *Cannabis sativa* L. In preparation.

Flores-Sanchez I.J., Peç J., Fei J., Choi Y.H. and Verpoorte R. Elicitation studies in cell suspension cultures of *Cannabis sativa* L. In preparation.

