

Viscotoxins, Mistletoe Lectins and their Isoforms in Mistletoe (*Viscum album* L.) Extracts Iscador

Analytical results on pharmaceutical processing of mistletoe

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Key words

- Iscador®
- Lectin isoforms
- Mistletoe extract
- Viscotoxin isoforms
- *Viscum album* L.

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Summary

The purpose of the following study was to evaluate the presence of the most frequently investigated pharmacologically active mistletoe compounds, viscotoxins (VT) and mistletoe lectins (ML), in European mistletoe *Viscum album* L. and in the pharmaceutical mistletoe preparations Iscador®. Quantitative analysis of the VT isoforms A1, A2, A3, B, I-PS, and U-PS in fresh mistletoe plant material from the three European subspecies of *V. album*, during fermentative extraction of mistletoe and in Iscador showed that the pharmaceutical proceeding specific for the preparation of Iscador warrants a high yield of VT. No degradation or transformation of VT during the production process became apparent. The VT compositions of the three host specific European subspecies of *V. album*, *spp. album*, *spp. abietis*, and *spp. myrtillus*, showed characteristic differences. They ensured the identification of the subspecies specific types of Iscador.

ML contents of mistletoe extracts were reduced during fermentative extraction. The quantified contents of total ML were 284 ± 9.3 ng/ml in Iscador M 5 mg

spec. and 293 ± 18.3 ng/ml in Iscador Qu 5 mg spec. Binding of ML to the glycoprotein asialofetuin (type I) was found to be temperature dependent. Binding activity was increased to 230 % (ML I) and 410 % (ML II and ML III) respectively by decreasing temperature from 30 °C to 4 °C. 95 % of ML could be eliminated from Iscador by affinity chromatography with immobilised glycoproteins at 6 °C. Quantitative extraction of ML from the crude extract and their analysis by SDS-PAGE revealed the presence of about 50 % ML I, 20 % ML II, and 50 % ML III in Iscador M 5 mg spec. and Iscador Qu 5 mg spec.

The annual course of concentrations of ML and VT in the leaves of *V. album* showed maximal ML contents in December and culmination of VT in June. Seasonal fluctuations of the composition of mistletoe imply the importance of fixed harvesting seasons.

Zusammenfassung

Viscotoxine, Mistellektine und ihre Isoformen im Mistel (*Viscum album* L.)-Extrakt Iscador / Analytische Resultate zur pharmazeutischen Verarbeitung der Mistel

Ziel der vorliegenden Studie war die quantitative Bestimmung der bekanntesten pharmakologisch aktiven Mistelbestandteile, Viscotoxine (VT) und Mistellektine (ML), in der europäischen Mistel *Vis-*

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1. Understanding the eBook Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
 - The Rise of Digital Reading Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
 - Advantages of eBooks Over Traditional Books
2. Identifying Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986

- Personalized Recommendations
 - Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986 User Reviews and Ratings
 - Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986 and Bestseller Lists
5. Accessing Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986 Free and Paid eBooks
- Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986 Public Domain eBooks
 - Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986 eBook Subscription Services
 - Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986 Budget-Friendly Options
6. Navigating Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986 eBook Formats
- ePub, PDF, MOBI, and More
 - Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986 Compatibility with Devices
 - Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
 - Highlighting and Note-Taking Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
 - Interactive Elements Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
8. Staying Engaged with Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
- Joining Online Reading Communities

- Participating in Virtual Book Clubs
- Following Authors and Publishers Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
- 9. Balancing eBooks and Physical Books Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
 - Setting Reading Goals Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
 - Fact-Checking eBook Content of Mistletoe Pharmacologically Relevant Components Of Viscum Album L Oncology Vol 43 Suppl 1 1986
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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