

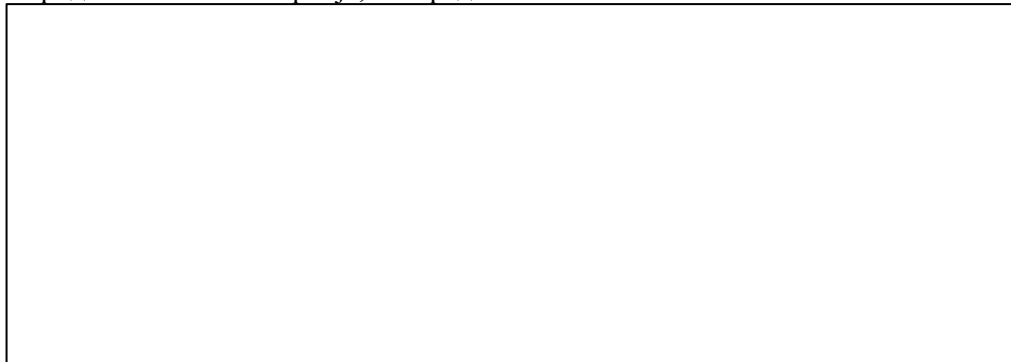
**10<sup>th</sup> Conference of Young Chemists of Serbia**

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*Editors*

Života **SELAKOVIĆ**

Jelena **SIMIĆ**

Jelica **MILOŠEVIĆ**

Dušan **DIMIĆ**

Lidija **RADOVANOVIĆ**

Snežana **PAPOVIĆ**

Jelena **KESIĆ**

Mila **LAZOVIĆ**

Mihajlo **JAKANOVSKI**

Slađana **ĐORĐEVIĆ**

Tina **ANDREJEVIĆ**

*Page Layout and Design*

Jelena **KESIĆ**

Mila **LAZOVIĆ**

Mihajlo **JAKANOVSKI**

Tina **ANDREJEVIĆ**

Slađana **ĐORĐEVIĆ**

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## Can the medicinal plant *Symphytum officinale* L. be a rich source of macroelements?

Sara M. Pantović<sup>1</sup>, Aleksandra Pavlović<sup>2</sup>, Emilija T. Pecev-Marinković<sup>2</sup>, Enisa S. Selimović<sup>1</sup>

<sup>1</sup>State University of Novi Pazar - Department of Natural Sciences and Mathematics, Novi Pazar, Serbia

<sup>2</sup>University of Niš - Faculty of Sciences and Mathematics, Department of Chemistry, Niš, Serbia

*Symphytum officinale* L from the mountain Golija, Republic of Serbia, chemically untreated, was selected for investigation. Concentrations of five macroelements (Ca, Mg, K, Na, P), were determined by ICP-OES method, after samples mineralization. Macroelement concentrations were determined in all parts of the plant separately (leaf, flower, stem, root).



Figure 1. *Symphytum officinale* L.

Research has shown that the leaf part of comfrey is the richest in Ca and K, while the flower was richest in Mg and P. The root is almost the richest in K and Na content, while it is the poorest in Ca, Mg and P concentrations. The concentrations of macroelements in the comfrey stem were higher than in the root. Compared to the stem, the root contains only more phosphorus.

According to the available literature data, there has been no similar research on Golija so far, which gives the topic importance, and the obtained experimental data will contribute to the scientific database.

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