Contact Name	Leila Pio
Contact Email	leilapio.ufla@gmail.com
Company/Organisation	Federal University of Lavras
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Title of Abstract Presentation	Chitosan influence on carbohydrate metabolism and antioxidant system of Mentha arvensis L.
Authors	Leila Aparecida Salles Pio1, Elias Alves Silva2, Ana Cardoso Clemente Filha Ferreira de Paula3, Amauri Alves de Alvarenga4, Vivianny Nayse Belo Silva5, Cinthia Aparecida Andrade6
Authors Biography	1Federal University of Lavras, Agriculture Department, University Campus, Lavras, 37200-000, Brazil (leila.pio@dag.ufla.br), 55-35-3829-1776 2Federal University of Lavras, Agriculture Department, University Campus, Lavras, 37200-000, Brazil (elias.bio89@hotmail.com). 3Federal Institute of Minas Gerais, Bambui Campus, Bambui, 38900-000, Brazil (ana.paula@ifmg.edu.br). 4Federal University of Lavras, Agriculture Department, University Campus, Lavras, 37200-000, Brazil (alvarengaa@dbi.ufla.br). 5Federal University of Lavras, Agriculture Department, University Campus, Lavras, 37200-000, Brazil (viviannybiologa@gmail.com). 5Federal University of Lavras, Agriculture Department, University Campus, Lavras, 37200-000, Brazil (viviannybiologa@gmail.com). 6Federal University of Lavras, Agriculture Department, University Campus, Lavras, 37200-000, Brazil (cinthia.and@hotmail.com)
Abstract Submission	Mentha arvensis L. is a medicinal plant with economic importance due to its essential oil production. Studies linking the use of chitosan as elicitor on M. arvensis L plants . and its influence on the metabolism of carbohydrates and antioxidant are relevant. The aim of this study was to evaluate the biochemical / physiological behavior of M. arvensis subjected

	to treatment with chitosan. Due to the fact of not having any reports about the application of chitosan in this species, two experiments to adjust dosages were conducted. From the results of the experiment I an experiment with four treatments (control, glacial acetic acid solution 0.25% and 0.06% chitosan and 0.125%) was deployed. The collected material to evaluate the activity of antioxidant enzymes and lipid peroxidation occurred at zero time at 12, 24 hours and 7 days after application of chitosan. To determine the carbohydrate content samples were carried out time zero to 12 hours, 24 hours and 7 days after application of treatments. The antioxidant metabolism M. arvensis was activated by elicitation with chitosan suggesting that biopolymer promotes the reduction of EROs should be applied along with the glacial acetic acid solution. In small concentrations of aqueous glacial acetic acid promotes stimuli on the plants together with chitosan. The total soluble sugar values varied due to the elicitation and starch content varied between the aerial and underground, fact that corroborates the increase observed in other species subject to other forms of abiotic stresses.
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