

# The 6th International Electronic Conference on Foods 28-30 October 2025 | Online



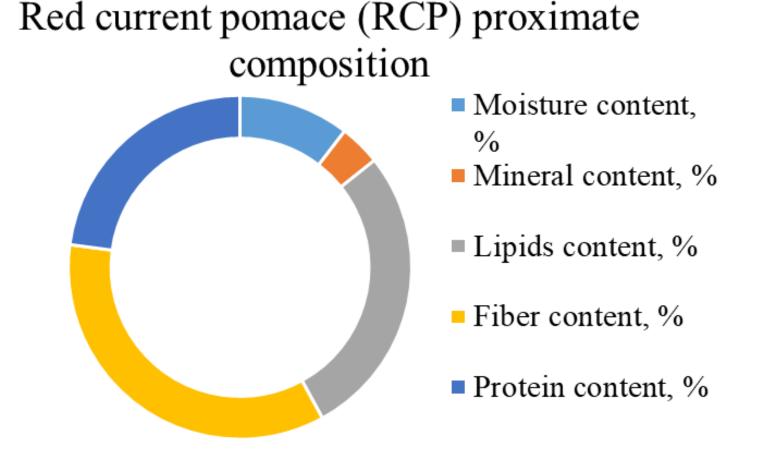
# Evaluation of incorporation of red currant pomace and extract in meatballs using conventional quality assessment

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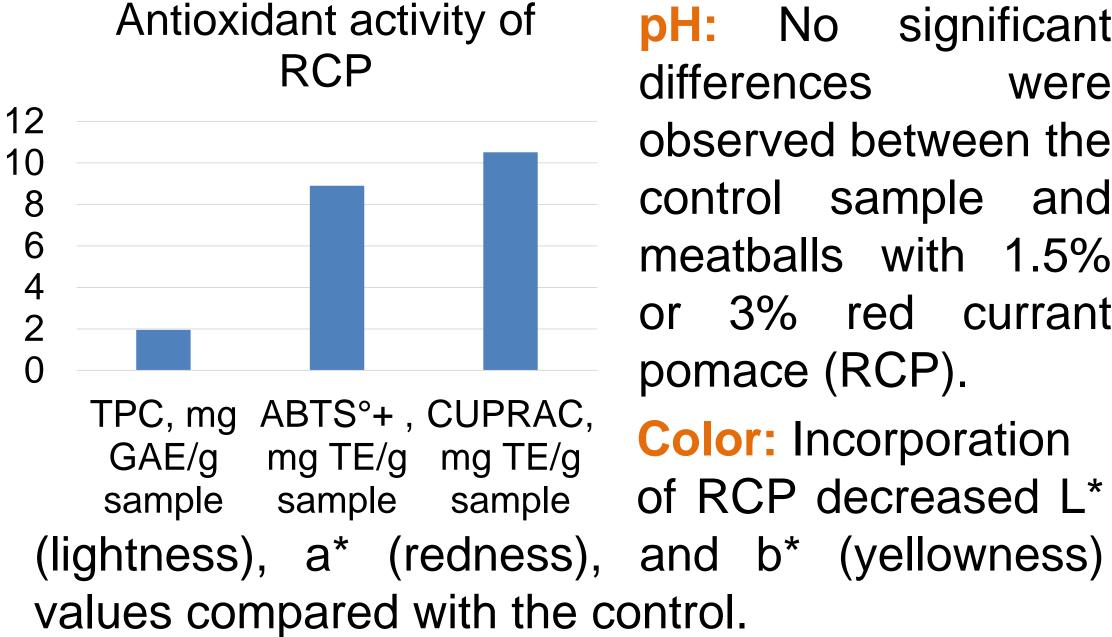
#### INTRODUCTION & AIM **PROBLEM APPROACH BENEFITS** Inhibit oxidation processes Reduce potentially Meat provides Integrating carcinogenic high-quality protein antioxidant compounds essential for phytochemicals human nutrition, extracted from yet its production agri-food byposes economic and products environmental challenges Support circular economy principles **AIM** To evaluate the impact of natural additives on quality parameters and lipid oxidation stability of

#### meat products **METHOD** Proximate composition Pomace Juice Moisture content pressing Ash content Oil content Carbohydrate content Juice Energy value Dietary fiber content Antioxidant activity **Analysis** pН Color Water, salt, pepper 1.5% RCP control Myoglobin form changes Texture analysis Lipid oxidation Sensory analysis

#### **RESULTS & DISCUSSION**

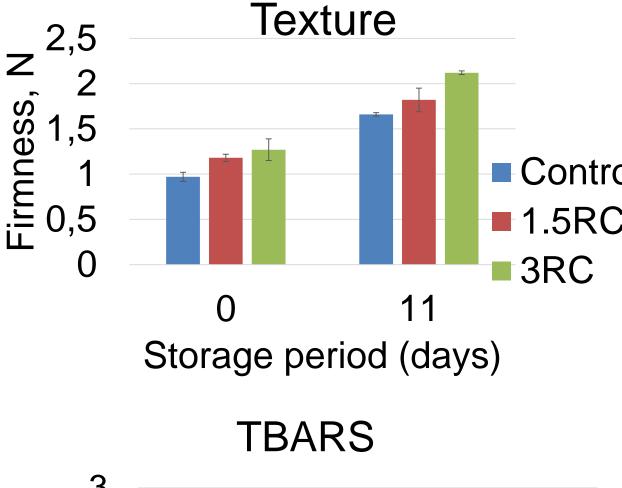


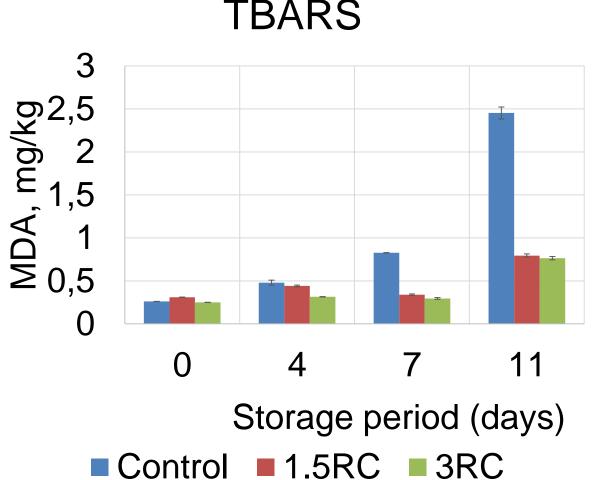
### **RESULTS & DISCUSSION**



significant No differences were observed between the control sample and meatballs with 1.5% 3% red currant pomace (RCP).

Color: Incorporation of RCP decreased L\*





#### forms: Myoglobin

Control The proportions of ■ 1.5RC myoglobin forms varied during storage, metmyoglobin but (MetMB) consistently showed the highest content.

#### Sensory evaluation: throughout storage, panelists consistently preferred meatballs containing 1.5% RCP.

#### CONCLUSION

Taken together, RCP may be considered promising antioxidant-containing and fibre-rich materials for use in pork meat products and may increase their nutritional quality due to red currants' health benefits

## FUTURE WORK / REFERENCES

Further research could explore optimal incorporation levels and potential sensory impacts to maximize both health benefits and consumer acceptance.

https://sciforum.net/event/Foods2025