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Comparative study of ciabatta crust crispness through acoustic and mechanical methods: Effects of wheat malt and protease on dough rheology and crust crispness retention during storage

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Comparative study of ciabatta crust crispness through acoustic and mechanical methods: effects of wheat malt and protease on dough rheology 2 and crust crispness retention during storage 3 4 Daiva Zadeike^{1*}, Ruta Jukonyte¹, Grazina Juodeikiene¹, Elena Bartkiene², Zidrone 5 Valatkeviciene¹ 6 7 ¹ Department of Food Science and Technology, Kaunas University of Technology, Radvilenu rd. 8 19, LT-50254 Kaunas, Lithuania 9 ² Department of Food Safety and Quality, Lithuanian University of Health Science, Tilzes str. 18, 10 LT-47181, Kaunas, Lithuania 11 12 13 14 Corresponding author: e-mail: daiva.zadeike@ktu.lt (D. Zadeike); co-authors: ruta.jukonyte@ktu.lt (R. Jukonyte), grazina.juodeikiene@ktu.lt (G. Juodeikiene),

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19 **Short title:** Acoustic sensing for crust crispness evaluation

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