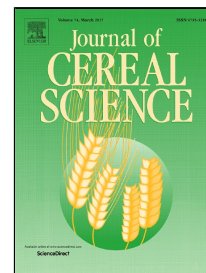


# Accepted Manuscript

Effects of ozone treatment on the molecular properties of wheat grain proteins

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PII: S0733-5210(17)30138-8

DOI: 10.1016/j.jcs.2017.04.016

Reference: YJCRS 2348

To appear in: *Journal of Cereal Science*

Received Date: 10 February 2017

Revised Date: 14 April 2017

Accepted Date: 17 April 2017

Please cite this article as: Perrine Gozé, Larbi Rhazi, Lyès Lakhal, Philippe Jacolot, André Pauss, Thierry Aussenac, Effects of ozone treatment on the molecular properties of wheat grain proteins, *Journal of Cereal Science* (2017), doi: 10.1016/j.jcs.2017.04.016

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**Highlights**

- Prolamins in ozonated wheat grains were analysed.
- Glutenin molecular dimensions and compactness increased after grain ozonation.
- New glutenin intermolecular covalent cross-links are formed after grain ozonation.
- Changes in glutenin secondary structure ( $\beta$ -sheet) are induced after grain ozonation.
- Ozone leads to changes in the rheological properties of the flours and/or doughs.

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