

Accepted Manuscript

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PII: S0963-9969(17)30095-9

DOI: doi: [10.1016/j.foodres.2017.03.007](https://doi.org/10.1016/j.foodres.2017.03.007)

Reference: FRIN 6614

To appear in: *Food Research International*

Received date: 6 January 2017

Revised date: 21 February 2017

Accepted date: 5 March 2017

Please cite this article as: Yinan Zhang, Xiaoning An , Inhibitory mechanism of quercetin against the formation of 5-(hydroxymethyl)-2-furaldehyde in buckwheat flour bread by ultra-performance liquid chromatography coupled with high-resolution tandem mass spectrometry. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. *Food Research International* (2017), doi: [10.1016/j.foodres.2017.03.007](https://doi.org/10.1016/j.foodres.2017.03.007)

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Abbreviations: HMF, 5-(hydroxymethyl)-2-furaldehyde; 3-DG, 3-deoxyglucosone; 3,4-DGE, 3,4-dideoxyglucosone-3-ene; FCDP, fructofuranosyl cation dehydration product; UPLC-HRMS/MS, ultra-performance liquid chromatography coupled with high-resolution tandem mass spectrometry

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