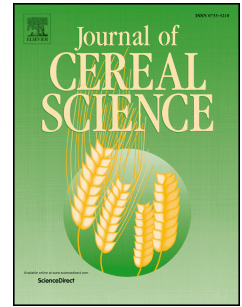


# Accepted Manuscript

Impact of thermochemical pre-treatment and carbohydrate and protein hydrolyzing enzyme treatment on fractionation of protein and lignin from brewer's spent grain

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PII: S0733-5210(17)30529-5

DOI: [10.1016/j.jcs.2017.10.005](https://doi.org/10.1016/j.jcs.2017.10.005)

Reference: YJCRS 2458

To appear in: *Journal of Cereal Science*

Please cite this article as: Katariina Rommi, Piritta Niemi, Katariina Kempainen, Kristiina Kruus, Impact of thermochemical pre-treatment and carbohydrate and protein hydrolyzing enzyme treatment on fractionation of protein and lignin from brewer's spent grain, *Journal of Cereal Science* (2017), doi: 10.1016/j.jcs.2017.10.005

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## Highlights

- Steam explosion increased lignin recovery from BSG by alkaline extraction
- Complete protein solubilization from BSG was achieved by alkaline protease treatment
- Lignin and protein showed clear co-extraction and could only be partially separated by acidic precipitation, suggesting similar solubilities and strong interactions

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