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Partial replacement of wheat flour by pecan nut expeller meal on bakery products.  
Effect on muffins quality

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**Partial replacement of wheat flour by pecan nut expeller meal on bakery products.**  
**Effect on muffins quality.**

**Running Title:** Muffins with pecan expeller meal

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**Highlights**

- > Pecan nut expeller meal (PEM) a low-value by-product increased muffins' process yield
- > PEM incorporation mainly altered muffins crumb leading to a darker product
- > 20-30 g/100g of PEM improved height, obtaining crumbs with more and larger pores
- > PEM addition increased number of pores, but 30 g/100g lead to largest pore fraction
- > Sensorial profile was improved when PEM was employed in muffins formulations

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